PERSONNEL PLACEMENT

SCIENCES publishes each Friday, except the last Friday of the year. Advertising is accepted only in written form, with no abbreviations. Any deadline in ad must be at least 2 weeks prior to issue date (mailed on issue date). For deadlines for display advertising, please contact Scherago Associates.

POSITIONS WANTED

Biochemical Literature—Technical writing, abstracting, indexing, translating from German, French, Biochem, Ph.D. seeks employment or free-lancing. Based in New York City. Will accept assignments by mail or telephone: Box 191, SCIENCE.

POSITIONS OPEN

APA MONITOR

The School of Human Development at the University of Texas at Dallas announces the availability of four faculty positions in the area of Cognition and Neuroscience. These positions are to be the School's interdisciplinary graduate programs where we are developing emphases in cognitive neuroscience. Responsibilities also include teaching in the undergraduate program in Psychology. Candidates should provide evidence of scholarly productivity and a commitment to graduate education in an interdisciplinary context. Appointments will generally be made at the assistant professor level, although one of these positions may be filled at a more advanced level.

COGNITIVE SCIENCE—Emphasis on knowledge acquisition and representation, artificial intelligence and expert systems, complex problem solving, human-computer interaction, or text comprehension. Academic Search #: 548.

NEUROSCIENCE—Two positions are open for neurophysiologists. One position is available with an emphasis in computational neuroscience, neural modeling of behavior and/or neural circuit analysis. The second position seeks candidates with expertise in sensory perception, learning, perception or development. Academic Search #: 549.

AGING AND LANGUAGE—Expertise in brain mechanisms and language processes, including the aphasias, in aging. Academic Search #: 544.

Salary, teaching load, and research support are highly competitive. Indication of sex and ethnicity for Affirmative Action purposes is required but not required. Please send letter, curriculum vitae and the names of three references by 15 November 1989. Academic Search # 548. The University of Texas at Dallas, P.O. Box 75083, Richardson, TX 75083-0688. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

ANATOMY DEPARTMENT: MUSCLE BIOLOGIST

The Department of Anatomy at The Medical College of Pennsylvania invites applications for a tenure-track assistant professor level position, available July 1990. Candidate should have a Ph.D. and postdoctoral experience. The appointee is expected to develop a competitive research program in the area of contractile structure and function, complementing those of present faculty. Research involving EM techniques such as minimal analysis in amorphous ice, freeze-substitution, shadowing and image reconstruction, or regulation of contractile activity is preferred. Active participation in team-taught courses in cell biology, macroscopic anatomy, or gross anatomy to medical and graduate students is required. Please submit a curriculum vitae, statement of research interests and goals, with representative publications and names of three references to: Rhea J. G. Levine, Ph.D., Department of Anatomy, The Medical College of Pennsylvania, Eppi Division, 3200 Henry Avenue, Philadelphia, PA 19129. Equal Opportunity Employer, M/F.

ASSISTANT PROFESSOR

Tenure-track position available for outstanding candidates with training in cell physiology, biophysics, or regulatory biology. Candidates who plan to establish an independent research program involving growth and development are encouraged to apply, but outstanding candidates in other fields will be considered. The abilities of the applicants are more important than specific research areas. Candidates should submit curriculum vitae, description of future research program, and have three letters of reference sent to: James T. Stull, Ph.D., Chairman, Department of Molecular and Developmental Biology, Northwestern University Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75233-9040. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR

NORTHWESTERN UNIVERSITY

The Department of Biochemistry, Molecular Biology, and Cell Biology seeks outstanding candidates for a tenure-track assistant professor position. Individuals with strong research interests involving intracellular transport processes, membrane-cytoskeleton interactions, regulation of cell growth and differentiation, and cellular communication mechanisms are encouraged to apply. Exceptionally qualified candidates in other areas will also be considered, as the abilities of the applicant are more important than the particular area of research interest. Research programs in the department include developmental biology, genetics and molecular biology, immunology and virology, and structural biology.

Candidates should submit curriculum vitae, a list of publications, copies of preprints, a statement of future research objectives, and letters of reference from three persons knowledgeable of the candidate's research and teaching abilities to: Dr. Kelly E. Mayo, Faculty Search Committee, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60208. This is a contingent upon a 100% approved budget.

CELL and MOLECULAR BIOLOGY GROUP

at West Virginia University. Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level. Candidates with post-doctoral experience are required. We are interested in individuals studying contemporary problems in cell biology and genetics. The successful candidate is expected to participate enthusiastically and effectively in teaching undergraduate and graduate students, and to publish results of research projects. A curriculum vitae, a brief description of current and future research interests, and the names and telephone numbers of three individuals who are willing to provide letters of evaluation to: Dr. Richard P. Sutter, P.O. Box 6057, Biology Department, West Virginia University, Morgantown, WV 26506. Applications must be received by 1 December 1989. WVU is an Equal Opportunity Employer.

ASSISTANT PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY UNIVERSITY OF ILLINOIS

The Department of Biochemistry at the University of Illinois invites applications for a tenure-track faculty position which will be available starting in August 1990. Salary is dependent upon qualifications. Candidates must have demonstrated exceptional research ability in dynamical areas of biochemistry or molecular biology, and must be prepared to establish an independent research program and to contribute to graduate and undergraduate training. A Ph.D. and postdoctoral experience in biochemistry or a related field are required. For full consideration, applicants should submit curriculum vitae, a brief description of their research interests, and three letters of reference to: Professor Richard I. Gumpert, Chairman, The Biochemistry Search Committee, Department of Biochemistry, University of Illinois, 1209 West California Street, Urbana, IL 61801. Telephone: 217-333-2013.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR VETERINARY PATHOLOGY/PATHOBIOLOGY

The Department of Veterinary Pathobiology Retrovirus Research Center, College of Veterinary Medicine, The Ohio State University, invites applications for a tenure-track assistant professor position in the area of molecular retrovirology. The applicant should have a Ph.D. degree with postdoctoral research experience in molecular retrovirology and a strong commitment to research and graduate education. Development of an independent research program with extramural support and collaboration with senior and/or junior colleagues on human health-related retroviral disease problems essential. Applications should include: curriculum vitae, statement of career goals, summary of current research activities, and three letters of reference. Deadline for applications is 30 November 1989. Address correspondence to: Professor Charles G. Popenoe, Department of Veterinary Pathobiology, The Ohio State University, 1925 Coffey Road, Columbus, OH 43210. Equal Opportunity and Affirmative Action Employer.

POSITIONS WANTED

BIOLOGY

Biochemistry, Ph.D. 25 years of experience in proteinases, inhibitors, and protein purification. Fifty publications. Current subjects are new connective tissue proteinases. Currently resident at S. Seeks academic/industrial research position. Box 176, SCIENCE.

Cell/Protein/Molecular Biologist, Ph.D. Five years of research experience. Cell biology, protein chemistry, and pharmacological (anti-tumor) agents. Excellent immunoprecipitation-dependent protein processing of nuclear and oncogene proteins. Expertise: protein purification, 1D/2D gels, Western immunoblots, DNA/RNA/plasma purification and analysis, immuno-preparation/immuno-nobots. Seeking industrial/pharmaceutical research and development position. Box 190, SCIENCE.
Request for Applications

Cystic Fibrosis: From Gene to Basic Defect

The Cystic Fibrosis Foundation invites investigator-initiated research grant applications to extend information from the newly discovered cystic fibrosis (CF) gene to the specific cellular defects observed in CF.

Recent evidence suggests that the CF gene codes for a transmembrane protein involved in the control of cellular transport events. This work complements previous findings on abnormal ion transport in CF. Research areas responsive to this request include, but are not limited to:

- Identification of the biochemical/physiological events related to the defective ion transport seen in CF;
- Development of appropriate model systems for studying the regulation of defective cellular processes;
- Development of pharmacological agents or other therapies to reverse the abnormal phenotype observed in CF cells.

Research approaches and model systems must be directly relevant to understanding the basic defect in CF. Applicants may request up to three years of support. Level of support will be commensurate with the scope of the proposed project.

The deadline for receipt of applications is December 1, 1989. For further information and applications, interested individuals are urged to contact Dr. Robert J. Beall or Ms. Dale Glass at the Cystic Fibrosis Foundation.

Cystic Fibrosis Foundation

6931 Arlington Road
Bethesda, Maryland 20814
(301) 951-4422
The University of California, San Diego, ASSISTANT PROFESSOR, BIOCHEMISTRY. The Chemistry Department is recruiting for a junior tenure-track position in the biochemistry area. The candidate must have a strong demonstrated ability for creative research and teaching at the undergraduate and graduate levels. Duties would include teaching in biochemistry both in our Medical School and in the General Program. Salary and/or special preference will be given to candidates using biochemical and biophysical approaches, such as NMR, x-ray crystallography, to study protein structure and function or DNA-protein interactions. All applications received through 15 October 1989 will be given thorough consideration. Salary commensurate with experience and based on the University of California pay scale. Candidates should send curriculum vitae, a list of publications, reprints on request, teaching evaluations, a summary of future plans, and names and addresses of three references to: Chairman, Biochemistry Search Committee, Department of Chemistry, B-032, University of California, San Diego, La Jolla, CA 92093-0332, The University of California is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR COMMUNITY ECOLOGY/CONSERVATION BIOLOGY. Tenure-track position in Department. Ph.D. required at time of appointment. Some university-level teaching skill required. Candidate must have expertise in community ecology and conservation biology. Experience as related to wildlife populations, as well as expertise on both compositional and noncompositional use of wildlife populations, is desired. Preference given to professional wildlife experience and/or strong quantitative skills will be given preference. Ornithology background preferred, but outstanding candidates with other vertebrates also may be considered. Demonstrated research experience in appropriate specialties is essential. Submit curriculum vitae (including reprints), transcripts of academic work, and three letters of reference to: Dr. Richard L. Ridlen, Dean, College of Natural Resources, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-3551. Closing date is 15 December 1989. Humboldt State University is an Equal Opportunity/Affirmative Action Title IX Employer.

ASSISTANT PROFESSOR IN INORGANIC CHEMISTRY at Iowa State University. The Chemistry Department invites applications for a tenure-track inorganic faculty position at the assistant professor level. Candidates are required to establish and maintain a creative and productive research program and excel in both undergraduate and graduate teaching. Outstanding applicants in any area of inorganic chemistry will be considered; however, those in the area of inorganic materials chemistry are especially encouraged to apply. Send curriculum vitae, undergraduate and graduate transcripts, a description of research plans, and array of recommendations to: W. E. Johnson, Chairman, Department of Chemistry, Iowa State University, Ames, IA 50011.

The Department of Biological Sciences at Texas Tech University invites applications for positions at the ASSISTANT PROFESSOR level. Texas Tech is one of only two state-approved multi-purpose universities with a large student body offering a Ph.D. program. Candidates must hold the Ph.D. degree; postdoctoral experience is highly preferred. Successful applicants are expected to implement teaching oriented, funded research programs, attract graduate students, and participate with other faculty in their area.

The University of Iowa, ASSISTANT PROFESSOR, BIOLOGY. The Department of Biology seeks to fill two tenure-track positions starting July 1990. The successful applicant will receive an advanced salary and will be expected to create a vigorous research program capable of attracting extramural funding support. A Ph.D. is required. One position will be in the area of specializations in systematic/zoobio, nuclear acid sequencing, population genetics. Teaching duties include an advanced specialty course and participation in the Department's GCSM facility. Send curriculum vitae and names of three references to: William J. Wadghill, M.D., Department of Pharmacology and Toxicology, School of Medicine, University of Louisville, Louisville, KY 40292, by 1 December 1989. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

The University of Iowa, ASSISTANT PROFESSOR, BIOLOGY. The Department of Biology seeks to fill two tenure-track positions starting July 1990. The successful applicant will receive an advanced salary and will be expected to create a vigorous research program capable of attracting extramural funding support. A Ph.D. is required. One position will be in the area of specializations in systematic/zoobio, nuclear acid sequencing, population genetics. Teaching duties include an advanced specialty course and participation in the Department's GCSM facility. Send curriculum vitae and names of three references to: William J. Wadghill, M.D., Department of Pharmacology and Toxicology, School of Medicine, University of Louisville, Louisville, KY 40292, by 1 December 1989. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

The University of California, San Diego, ASSISTANT PROFESSOR, BIOCHEMISTRY. The Chemistry Department is recruiting for a junior tenure-track position in the biochemistry area. The candidate must have a strong demonstrated ability for creative research and teaching at the undergraduate and graduate levels. Duties would include teaching in biochemistry both in our Medical School and in the General Program. Salary and/or special preference will be given to candidates using biochemical and biophysical approaches, such as NMR, x-ray crystallography, to study protein structure and function or DNA-protein interactions. All applications received through 15 October 1989 will be given thorough consideration. Salary commensurate with experience and based on the University of California pay scale. Candidates should send curriculum vitae, a list of publications, reprints on request, teaching evaluations, a summary of future plans, and names and addresses of three references to: Chairman, Biochemistry Search Committee, Department of Chemistry, B-032, University of California, San Diego, La Jolla, CA 92093-0332, The University of California is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR (tenure-track). D.V.M., D.V.M./Ph.D., or Ph.D. degree in neuroscience/neurobiology, physiology, or molecular biology. Must be able to teach as well as participate in the department's GCSM facility. Send curriculum vitae, transcripts of academic work, and three letters of reference to: Dr. M. H. White, Department of Physiology, University of California, Davis, CA 95616. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—IMMUNOLOGY—Department of Veterinary Microbiology and Immunology, School of Veterinary Medicine, University of California, is seeking a highly qualified applicant to fill a tenure-track position at the assistant professor level. Duties include teaching in the area of immunology and conducting independent research in one of the following areas: molecular immunology, the immune response to microbial infection, the response of the immune system to toxicological factors, and/or the role of the immune system in the pathogenesis of disease. Send curriculum vitae, bibliography, and names of three references to: Dr. M. H. White, Department of Veterinary Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA 95616. Applications accepted through 15 January 1989 or until a suitable candidate is identified.

The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF ANIMAL PHYSIOLOGY. California State University, Hayward, Department of Biological Sciences, invites applications for a full-time, tenure-track appointment at the assistant professor level, in the area of animal physiology at the systems physiology level (such as neurophysiology). Subject to budgetary approval, seeks to fill two tenure-track positions by 1 September 1990. Ph.D. required. Expected to teach undergraduate lecture and laboratory and graduate seminars as well as direct student research. Must be able to participate in the development of a coherent program. Send curriculum vitae, teaching and research goals and three references to: Chairperson, Department of Biological Sciences, California State University, Hayward, Hayward, CA 94542. To be assured full consideration, applications should be received by 1 December 1989. Affirmative Action/Equal Opportunity Employer. Position #0901 BIOL/SC17/1

DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS.
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN.
ASSISTANT PROFESSOR OF PROTEIN CRYSTALLOGRAPHY. Applications are invited for a tenure-track position in protein crystallography at the assistant professor level starting August 1990. Applicants are required to have a doctoral degree. The successful candidate is expected to develop a vigorous independent research program and participate in our undergraduate and graduate teaching programs. He/she will join a research group of molecular biophysicists including two diffractionists as part of the commitment to establish an outstanding program in structural biology. Salary for this 9-month appointment will be commensurate with experience and qualifications. An additional 2-month summer salary may be generated from teaching or research sources. In order to ensure full consideration, applications must be received by 15 November 1989. Interviews may be conducted before 15 November 1989, but all applications received by that date will receive full consideration. Applicants should submit curriculum vitae, a list of publications, a short statement of research accomplishments, and a list of at least three references to: Dr. Andrew H.-J. Wang, Chairman, Search Committee, Department of Physi- ology and Biophysics, 524 Burrill Hall, The Universi- ty of Illinois, 1401 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-544-6637. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.
STATE UNIVERSITY OF NEW YORK AT BUFFALO
BIOLOGICAL SCIENCES—FACULTY OPENINGS

TWO ASSISTANT PROFESSORSHIPS: We anticipate hiring two faculty for Fall 1990. Those appointed will be individuals whose research programs are in the forefront of their fields and who will be able to interact with other members of our faculty.

These positions are open to candidates who will be utilizing modern biochemical, molecular and/or structural approaches in the study of biological problems in areas such as the following: (a) the immune system at the molecular and/or cellular level, (b) development, or (c) regulation of gene expression.

Successful candidates will be expected to have at least two to three years of post-doctoral experience, demonstrate experience in a productive research program, be able to describe in detail plans for future research activities, and show promise for establishing a fundable independent research program.

Candidates will also be expected to demonstrate above average teaching ability for both undergraduate and graduate teaching. Salary will be nationally competitive; excellent laboratory space and equipment available.

To apply, candidates must submit a curriculum vitae, including a statement of research background and teaching experience, and at least three letters of reference, to Dr. Darrell Doyle, Chairman, Department of Biological Sciences, 109 Cooke Hall, State University of New York at Buffalo, NY 14260. Applications will be received until December 31, 1989, or until the positions are filled thereafter.

State University of New York is an Affirmative Action/Equal Opportunity Employer.
DEPARTMENT OF GENETICS
HARVARD MEDICAL SCHOOL

The Department of Genetics invites applicants for the position of ASSISTANT/ASSOCIATE PROFESSOR. While qualifications for the position include a strong potential for imaginative research in contemporary genetics, we especially hope to consider individuals whose scholarship is broadly relevant to human biology. Individuals with M.D./Ph.D. degrees who are interested in being part of a basic science department, without required clinical responsibilities, are encouraged to apply. The successful candidate will be nominated for an appointment with the Howard Hughes Medical Institute. Interested candidates should submit to: Ronald A. Gannos, National Institutes of Health, Building 10, Room B3869, Bethesda, Maryland 20892. Telephone: (301) 496-3596.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF LABORATORY ANIMAL PATHOLOGY—Department of Veterinary Pathology, University of California, Davis. Candidates must have a D.V.M. (or equivalent) and a Ph.D. with advanced training in pathology. Board certification by the A.C.V.P. is required. Candidates must have special competence in laboratory animal pathology. Those also certified by the A.C.L.A.M. are encouraged to apply. There should be evidence of productivity in research relating to pathogenesis of diseases of laboratory animals and use of animal models of human disease. The successful candidate will be expected to be competent in the use of techniques necessary for studies at the cellular and molecular level. The candidate will participate in relevant teaching programs at the professional and postgraduate levels, including service duties for UCD Laboratory Animal Facilities. An equal opportunity/Affirmative Action/Equal Employment Opportunity employer. Deadline for receipt of applications is 15 December 1989 or until filled.

The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF CHEMISTRY

Tenure-track position beginning 20 August 1990 in an ACS-approved program at University of Portland, a private Catholic university. Responsibilities: general and biochemistry, Director of freshmen labs. Participation in undergraduate research encouraged. Ph.D. required, biochemistry preferred. Teaching effectiveness is emphasized. Send curriculum vitae, transcripts, teaching evaluations (if available), research interests, and three letters of recommendation by 5 January 1990 to: Chair of Chemistry Search Committee, Box 4, University of Portland, 5000 North Willamette Boulevard, Portland, OR 97203. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY/MOLECULAR BIOLOGY

Tenure-track position in biochemistry/molecular biology. Candidates should have a doctoral degree in biochemistry or related area and at least two years of postdoctoral experience. Preference given to candidates with research interests in molecular recognition (including protein and/or DNA structure and function), molecular biology, and molecular neurobiology. Appointee expected to develop a strong, independent research program in one or more areas of molecular structure, protein processing, membranes, molecular biology, morphogenesis, or molecular neurobiology, and to participate in A.C.V.P. and/or health science training programs. The School of Basic Life Sciences is a new biomedical research center, and provides a stimulating research environment. Research space, access to advanced equipment, and ample start-up funds are available. Screening to begin 1 December 1989 and continue until position is filled. Send curriculum vitae, bibliography, summary of research goals, and the names of three references to: Dr. Donald A. MacQuarrie, Head, Division of Molecular Biology and Biochemistry, School of Basic Life Sciences, University of Missouri—Kansas City, Kansas City, MO 64110. An equal opportunity/Affirmative Action Employer.

Brown University seeks an ASSISTANT PROFESSOR OF PSYCHOLOGY, with a specialization in vision. We are interested in candidates with an active experimental vision research program, and preference will be given to candidates with strong mathematical/computational skills. This is a tenure-track appointment that will begin on 1 July 1990, for an initial term of 3 years. Responsibilities of the position include teaching in psychology at both the undergraduate and graduate levels, directing undergraduate research, and maintaining a strong, well-funded vision research program. We strongly encourage applications from women and minority persons, and from candidates who could advise minority students. Applications should include curriculum vitae, reprints and preprints of scholarly publications, a statement of research and teaching interests, and three letters of recommendation. Submit applications by 1 January 1990 to: The Search Committee, c/o Professor Bruce Wooten, Department of Psychology, Brown University, Providence, RI 02912. Brown University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF DEPARTMENTAL BIOLOGY AND MANAGEMENT

Tenure-track with responsibility for developing an innovative research program on the biology, ecology, and management of critically important soil animals, and for participation in graduate student training. Applicants should have a Ph.D. in entomology or related field with emphasis in applied research. Send statement of career goals and qualifications, resume, transcripts, Ph.D. summary, reprints, and list of three references to: Dr. James D. Harper, Head, Department of Entomology, North Carolina State University, Raleigh, NC 27695-7613. Closing date 1 November 1989 or until qualified candidate is found. North Carolina State University is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE PROFESSOR, TENURE-TRACK CELL BIOLOGY

Search reopened. Research interests in cell and molecular structure and function; areas include, but are not limited to, motility, cell-cell interactions, receptors, intracellular signaling. Teaching cell biology is expected. May begin January, 1990. Review begins 1 November 1989.

POPULATION GENETICS/EVOLUTIONARY BIOLOGY

Research interests in theoretical or empirical population genetics as well as evolutionary biology. Doctorate required. Position available in 1990. Review begins 15 December 1989. Candidates must have a Ph.D., postdoctoral experience, and proven ability to secure grants. Participation in graduate programs and affiliated staff is expected. Teaching experience is desirable. Start-up funds available. Forward curriculum vitae, a letter of research and teaching interests, and three letters of recommendation to: Dr. Charles J. Amlaner, Chairman, Department of Zoology, University of Arkansas, Fayetteville, AR 72701. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF LABORATORY ANIMAL PATHOLOGY—Department of Veterinary Pathology, University of California, Davis. Candidates must have a D.V.M. (or equivalent) and a Ph.D. with advanced training in pathology. Board certification by the A.C.V.P. is required. Candidates must have special competence in laboratory animal pathology. Those also certified by the A.C.L.A.M. are encouraged to apply. There should be evidence of productivity in research relating to pathogenesis of diseases of laboratory animals and use of animal models of human disease. The successful candidate will be expected to be competent in the use of techniques necessary for studies at the cellular and molecular level. The candidate will participate in relevant teaching programs at the professional and postgraduate levels, including service duties for UCD Laboratory Animal Facilities. An equal opportunity/Affirmative Action/Equal Employment Opportunity employer. Deadline for receipt of applications is 15 December 1989 or until filled.

The University of California is an Affirmative Action/Equal Opportunity Employer.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Scientist Positions

Biotecnology

Scientist Positions

Analytical Development

Metagen, Inc. a new biotechnology company to develop, manufacture, and sell instruments and reagents for use in biotechnology research and diagnostic applications, located in rural New Jersey 45 minutes from Manhattan, has immediate openings for an Enzymologist and an Analytical Chemist.

- Enzymologist with experience in nucleic acids will be involved in automation of biochemical reactions. Requirements include a PhD/MS or equivalent experience in enzyme purification, with a minimum of 2-4 years’ experience developing DNA assays. Please cite position G.T.
- Analytical Chemist will be responsible for integrating highly sensitive detection systems with biochemical reactions. A PhD degree with 3 years of postdoctoral experience or MS degree with 6 years of experience in HPLC and instrumental development is required. Industrial experience is welcome and computer skills are desirable. Please cite position R.L.

Metagen, Inc. offers competitive salary and benefits packages along with an environment of exciting research and team effort. For confidential consideration, please send resume to:

Metagen, Inc.
Alwein Centre, Suite 8A
131 Ethel Road West
Piscataway, NJ 08854
Abbott Laboratories' Corporate Molecular Biology Group has played a key role in Abbott becoming the undisputed leader in the development of innovative medical products. In this fast growing field, our many breakthroughs have included tests for the detection of hepatitis B, AIDS, and most recently, HTLV I, as well as several important therapeutic products. We are continually looking ahead to major achievements as seen by Abbott's overall corporate research and development commitments which totaled $455 million in 1988. Currently, we have the following opportunities available within this group.

**PEPTIDE CHEMIST**—The selected candidate will prepare synthetic peptides for diagnostic and therapeutic applications. We seek a BS or MS in Chemistry, Biochemistry, Molecular Biology or a related field. A knowledge of automated TBoc and Fmoc chemistries, peptide cleavage and HPLC purification of peptides are essential. **Reply to Job #7651.**

**NUCLEIC ACIDS BIOLOGIST**—The qualified individual will prepare synthetic DNA and RNA oligonucleotides. A BS or MS in Molecular Biology, Biochemistry, Chemistry or a related field is essential. Experience with automated phosphoramidate chemistry, resin cleavage and purification of oligonucleotides are required. **Reply to Job #7500.**

**PROTEIN BIOCHEMIST**—The qualified candidate will be involved with the design, preparation and purification of synthetic and native proteins. A PhD in Protein Biochemistry and/or Peptide Chemistry is required. Leadership skills are preferred. **Reply to Job #7623.**

**PROTEIN BIOCHEMIST**—The selected individual will be involved with the purification of native and recombinant proteins. A BS or MS in Biochemistry, Molecular Biology, Biology or a related field and extensive laboratory experience in protein purification are required. A background in protein refolding is desirable. **Reply to Job #7620.**

**MOLECULAR BIOLOGIST**—The selected candidate's research will focus on the molecular biology of synaptic proteins, involving the cloning, characterization and expression of neurotransmitter receptors. A BS or MS in Molecular Biology, Cell Biology, Biochemistry or a related field is required. Knowledge and experience in the following is desired: cloning strategies, library screening, subcloning, DNA sequencing, blot hybridization, eukaryotic gene expression, and cell culture. Familiarity with neurobiology and pharmacology is helpful. **Reply to Job #7511.**

**CELL BIOLOGIST**—The qualified individual will have a PhD in Cell Biology; postdoctoral experience is a plus. Experience in embryonal cell lines for transgenic animals is required. **Reply to Job #7522.**

Our headquarters are established in an attractive suburb just 30 miles north of Chicago. Abbott is ready to provide you with an exceptional salary and benefits including profit sharing and stock retirement plans. On your resume, please indicate the Job Number of the position in which you're interested, and your salary history, and forward it to: Keith Allen, Corporate Placement, Abbott Laboratories, 1 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.
positions open

ASSOCIATE/ASSOCIATE PROFESSOR, IN-ORGANIC/PHYSICAL OR INORGANIC/A-NALYTICAL. FULL-TIME, TENURE-TRACK, 9-MONTH position for the Chemistry/Physics Department, Mississippi University for Women, Owasso, MS. Available Fall 1990. An Equal Opportunity Employer. Application deadline is January 15, 1990. Contact: Dr. J. W. Ramsey, Chairman, Search Committee, Department of Chemistry, Box 8632, MSU, MS 38674-8632. Application should include a letter of application, current curriculum vitae, statement of teaching and research goals, and three letters of recommendation. Salary depends on experience and credentials. An Equal Opportunity/Affirmative Action Employer.

positions open

ASSOCIATE DEAN AND DIRECTOR OF EXTENSION. NORTH CAROLINA STATE UNIVERSITY. North Carolina State University, Raleigh, invites applications and nominations of distinguished individuals to fill a new position. The Associate Dean and Director of the Agricultural Extension Service in the College of Agriculture and Life Sciences. Candidates should have a Ph.D. degree in area of interest in, and knowledge of extension administration, and demonstrated accomplishments in his/her discipline. They must have a strong background in public administration, and editorial and business writing. The associate will be responsible for the coordination and development of all agricultural extension programs. This position will be expected to be filled by the time in June 1990. An Equal Opportunity/Affirmative Action Institution.

positions open

AVIAN BIOLOGIST. The Biology Department at Northern Arizona University invites applications for a position available as early as fall 1990. Candidates should have a Ph.D. and research interests in avian behavior, ecology, evolution, and systematics. The successful candidate will be expected to teach at the undergraduate and graduate level, and establish an active research program, and seek extramural funding. Applications must be received by November 15, 1990. An Equal Opportunity/Affirmative Action Employer.

AMERICAN CANCER SOCIETY BASIC CANCER RESEARCH EMERENT SCHOLAR CHAIR UNIVERSITY OF FLORIDA (EDWARD R. ROGER PROFESSORSHIP). Applications are invited for candidates to fill a faculty position in basic cancer research. This is an endowed position at the University of Florida, with the Chair appointed jointly by the Chair of the College of Liberal Arts and Sciences and the Director of the Florida Cancer Research Institute. The Chair will hold a Ph.D. degree in basic cancer research. The Chair should have demonstrated a strong commitment to academic medicine. Minimum qualifications include a Ph.D. or M.D. degree in basic cancer research. The successful candidate will be expected to establish an active and widely recognized program of research. Salary is negotiable and will be based on credentials. Deadline for receipt of applications is January 15, 1990. Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY—FACULTY POSITION. Applications are invited for a tenure-track assistant professor to begin with the 1990 to 1991 academic year. Responsibilities include teaching general chemistry and undergraduate and graduate biochemistry courses, and directing undergraduate and graduate research. Contin-ued active participation in research is expected. Candidates should have the Ph.D. degree in biochemistry with demonstrated research experience and be involved in the preparation of manuscripts for publication. Applications must include letter of application, current curriculum vitae, three letters of recommendation, and financial statement. Salary depends on experience and will be commensurate. Send applications to: Dr. J. W. Ramsey, Chairman, Search Committee, Department of Chemistry, Box 8632, MSU, MS 38674-8632. An Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY/ MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE. FACULTY POSITIONS are expected to be available in 1990 in the Department of Biochemistry at the level of assistant or associate professor for well-trained or experienced candidates in the following areas: (i) molecular biology of eukaryotic systems; (ii) membrane biochemis-try or molecular biology of signal transduction, and (iii) immunologically relevant aspects of cellular and/or metabolic biochemis-try. Successful applicants will be expected to develop and maintain a funded research program of high quality and influence. Stipends for these positions are commensurate with rank and experience. Send curriculum vitae, names of four individuals who may be contacted for reference, and a concise description of research interests to: Dr. J. W. Ramsey, Chairman, Search Committee, Department of Chemistry, Box 8632, MSU, MS 38674-8632. An Equal Opportunity/Affirmative Action Institution.

BIOCHEMISTRY, ALABAMA AGRICULTURAL EXPERIMENT STATION AUBURN UNIVERSITY. Provide leadership for research program management and extramural support. Ph.D. within agricultural, for-estry, and related disciplines preferred. Send chair vitae to: Dr. E. T. Andreadis, Chair, Department of Biochemistry, Auburn University, Auburn, AL 36849. MS 28000. Minority candidates are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY CHAIR UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES. This notice is an announcement to potential candidates for the position at the University of Arkansas for Medical Sciences, Little Rock, Arkansas. This position is open to candidates holding the M.D. or Ph.D. degree who would also qualify for a tenure appointment as professor of biochemistry. Any individual interested in being considered for this position should send his or her curriculum vitae to: Dr. E. T. Andreadis, Chairman, Biochemistry Search Committee, Department of Internal Medicine, 4301 West Markham, Little Rock, AR 72205. Application deadline is 1 January 1990. The University of Arkansas for Medical Sciences is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY, PH. D. Either a postdoctoral position for a recent graduate or a research scientist position for a more experienced candidate is immediately available. E-mail: W.H. and K.G. Coats, University of Akron, Akron, Ohio 44325. The position is available immediately. Responsibilities will include the development of specific glycoconjugates for which a sensitive assay is available. Ability to obtain antibodies for blot and other immunological analysis and for quantitation purpose with evolution toward application of molecular biological techniques is desirable. Salary negotiable depending upon background. Send curriculum vitae and three letters of recommendation to: R. Holzbach, G. & I. Research Unit, Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-5218. An Equal Opportunity/Affirmative Action Employer.

CELLULAR OR MOLECULAR IMMUNOLOGY RESEARCH ASSISTANT POSTDOCTORAL FELLOW. Opportunity for rapid advancement and to establish independent laboratory. Work initially with established postdoctoral and clinical research programs with Memorial Sloan Kettering Cancer Center, involving biochemical modulation in cancer therapy. Candidate should have proven expertise with HPLC technology, nucleic acid metabolism, and enzyme analysis. Genus laboratory space, all necessary equipment, and technical assistance will be provided. Excellent salary and fringe benefits. Interested candidates should submit a letter of application, current curriculum vitae, list of publications, and names, addresses, and telephone numbers of at least three recent references to: Daniel S. M. Martin, M.D., and Joseph R. Bertino, M.D., 89-15 Woodhaven Boulevard, Woodhaven, NY 11421.

SCIENCE, VOL. 246
European Opportunities for Ph.D. Life Scientists

THE OPENINGS
Procter & Gamble has several entry-level openings for life scientists with Ph.D. or postdoctoral training in the following disciplines:

<table>
<thead>
<tr>
<th>Biochemistry</th>
<th>Toxicology</th>
<th>Physiology</th>
<th>Virology</th>
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<tr>
<td>Food Sciences</td>
<td>Microbiology</td>
<td>Ecology</td>
<td>Soil Sciences</td>
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<tr>
<td>Immunology</td>
<td>Biology</td>
<td>Pharmacy</td>
<td>Pharmacology</td>
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THE POSITIONS
The openings for these disciplines are in product development, toxicology, environmental sciences, regulatory affairs, and microbiology. These positions are in one of the following Research and Development locations of Procter & Gamble in Europe: Brussels, Belgium; Newcastle upon Tyne or Egham (near London), England; Schwalbach (near Frankfurt) or Mainz, Germany; Paris, France; Rome, Italy; Madrid, Spain; or Istanbul, Turkey. Note: Not all openings are available in all locations.

THE CANDIDATES
The candidates will have excellent academic records, good communication skills and a good command of English. If applying for locations other than in England, applicants must be fluent in at least one of the following languages: Dutch, French, German, Italian, Spanish, Greek, Portuguese or Arabic. For locations other than Brussels, fluency in the local language is an important asset. Stationing in Istanbul requires fluency in Turkish.

The candidates should be free of military service obligations. Employment is contingent upon possession of citizenship or immigration visa for European Community or Scandinavian countries, Austria, or Switzerland. A Turkish national is preferred for Istanbul.

THE COMPANY
Procter & Gamble is a research and development based international corporation with more than $21 billion in world-wide sales in household consumer products and an R&D budget of over $625 million.

In Europe, the Middle East and North Africa, Procter & Gamble is engaged in the research and development, manufacture, and sale of a wide range of household consumer products including detergents, fabric-care products, toilet soaps, beauty and health-care products, disposable personal hygiene products, household-care products, beverages, and pharmaceuticals.

THE OFFER
We offer starting positions for a research and development career in a successful, strong, and growing company and in an environment which will stimulate personal and professional growth. We have a policy of 'promotion from within' based on contribution and potential. Salaries are highly competitive and coupled with an excellent benefits package which provides for pensions, health care, and paid relocation.

APPLICATIONS
To apply, please send your resume and publication list to:

Dr. T. J. Logan, Manager
European Life Scientists
THE PROCTER & GAMBLE COMPANY
P.O. Box 398707, Cincinnati, Ohio 45239-8707

Allow 6-8 weeks for response. No agency referrals, please.
BIOLOGICAL CHEMISTRY—ASSISTANT PROFESSOR—University of Florida. The Department of Chemistry invites applications for a tenure-track faculty position at the assistant professor rank starting in the 1990-91 academic year. Evidence of ability to establish and conduct an innovative and vigorous research and teaching program at the undergraduate and graduate levels is required. We are particularly interested in attracting individuals in molecular biochemistry with research activities in physical measurements, mechanistic studies, or theoretical/computational studies of biochemical systems. This is the first of three faculty positions anticipated to be filled in the next few years in the general area of biological chemistry. A successful candidate will be expected to introduce biochemistry into our curriculum both at the undergraduate and graduate levels, and he or she will be affiliated with the University Interdisciplinary Biotechnology Research (ICBR). Applicants should send a complete resume, which includes statements about research plans and teaching interests, and at least three letters of reference to: Professor N. Yung Ohm, Chairman of the Search Committee, W M. 365, University of Florida, Gainesville, FL 32611. Deadline for applications is 15 December 1989. The University of Florida is an Affirmative Action/Equal Opportunity Employer.

BONE MARROW TRANSPLANTATION DIRECTOR/SCIENTIFIC RESEARCH

Bayor University Medical Center, Dallas, Texas, seeks a bone marrow transplantation scientific research director. This individual would head the well-established clinical bone marrow transplantation research center. This program is a major referral center for marrow transplantation and offers research in multiple Texas and surrounding states. Qualified applicants should have a Ph.D. or M.D. degree and an established record of achievement in research related to bone marrow transplantation (i.e., graft-vs-host disease, evaluation of immune recovery post-transplant, evaluation of growth factors in the regeneration of blood and muscle, and graft marrows). The successful candidate will be responsible for directing laboratory specimens, publishing in peer reviewed journals, and writing successful grant applications. Interested candidates should send curriculum vitae to: Joseph W. Fay, M.D., Director, Bone Marrow Transplantation Research Center, Bayor Marrow Transplantation Research Center, Bayor University Medical Center, 3500 Gaston Avenue, Sammons Towers, Suite 410, Dallas, TX 75246. Telephone: 214-820-2619.

CHEMICAL AND BIOLOGICAL SCIENCES at Oregon Graduate Center, a multidisciplinary program in biotechnology (microbial and plant), membrane biochemistry (physical and organic), and metabolic biochemistry (inorganic and enzymatic) research in dynamic department with maximal student-faculty interaction. Research assistantships and tuition scholarships for qualified Ph.D. applicants. Write: Dr. Ninian Blackburn, Department of Chemical and Biological Sciences, Oregon Graduate Center, Beaverton, OR 97006-1999. Telephone: 503-690-1070. Equal Opportunity Employer.

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

Applications and nominations are invited for the position of Chair of the Department of Biological Sciences at the University of South Alabama. The Department has 16 faculty members offers the B.S. and M.S. programs. Candidates should have a demonstrated commitment to research and teaching and show evidence of extramural funding. Prior administrative experience is desirable. The field of interest is open. Candidates should expect a strong interaction with other departments during the application process. A curriculum vitae, names and addresses of three references, a statement of professional goals, and names and addresses of three references by November 15, 1989. Applications will be reviewed in December 1989 for a suitable candidate is selected. Candidates should send curriculum vitae, names and addresses of three references, a statement of professional goals to: Dr. John A. Freeman, Chair, Search Committee, c/o College of Arts and Sciences, University of South Alabama, Mobile, AL 36688. An Equal Opportunity/Equal Opportunity Employer.

UCLA DEPARTMENT OF PHYSIOLOGY

CARDIOVASCULAR TENURE-TRACK POSITIONS

Applicants are being sought in two areas: (i) vascular—emphasis on molecular genetic, endothelial-smooth muscle interaction, or structural-functional relations; and (ii) cardiac—emphasis on molecular biology with either investigation of development, or growth factors or intercellular interactions (e.g., channel formation). The recruitment is coordinated through the Departments of Physiology, Medicine, and Physical Medicine. The position is at the UCLA School of Medicine. Please respond, with curriculum vitae, to: G. A. Langer, M.D., Cardiovascular Research Lab, A-3-381 CHS UCLA School of Medicine 10833 Le Conte Avenue Los Angeles, CA 90095-1760

The University of California is an Affirmative Action/Equal Opportunity Employer.

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

University of Pittsburgh

Applications and nominations are invited for the position of Chairperson of the Department of Biological Sciences at the University of Pittsburgh. The Chairperson is expected to direct departmental activities as well as the energy and ability to lead the department into its next phase of development. Currently there are 30 tenure-line faculty members and research programs have been approved. Within the department, or available to its members, are facilities for DNA synthesis and sequencing, protein sequencing and peptide synthesis, cell culture and virology, hybridoma production, large-scale fermentation, electron microscopy, and macromolecular crystallography. The department has 80 graduate students in addition to 350 undergraduate majors. Candidates from all areas of modern biological research are welcome. Research will begin 1 October 1989. Applicants should send curriculum vitae, along with the names of three persons who can provide letters of references. Applications deadline is November 15, 1989. Position No. VM-6904. Salary will be commensurate with training and experience. Address correspondence to Dr. Arthur F. Babesia, Chair, Search Committee Chairperson, Department of Biological Sciences, College of Veterinary Medicine, University of Florida, Box J-137, JHMHC, Gainesville, FL 32610, (904) 392-1841. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

CLINICAL ASSOCIATE IN RENAL MEDICINE

Laboratory research: measure A1 (graphite furnace) and divalent cations (atomic absorption); proximal and distal tubules by enzymatic methods; hand-microdissociate to isolate constituting tubules (CNT); computer data-anayzer for renal failure research; electrophysiology of Na,Ca,K channels in primary CNT culture (patch clamp); measure intracellular (fluorescent dyes), extract and measure serum vitamin D metabolites by HPLC and receptor assay; M.D. or Ph.D. in biomedicine. Fourty hours per week; 8:00 a.m. to 5:30 p.m. $30,000 per year. Resumes to: Illinois Department of Employment Security, 401 South State Street, Chicago, IL 60605. Attention: Ms. Mary Mila, Ref. #Y-VL 9645-M. An employer-paid ad.

DEVELOPMENTAL NEUROBIOLOGY

Applications are invited for a tenure-track faculty position at the assistant professor level. We are particularly interested in persons working at the cellular level who can contribute to a broadly based neuroscience program. Postdoctoral experience required. Successful candidate will be expected to establish a vigorous independent research program and to reinforce our strong commitments to research, graduate training, and undergraduate education. Competitive salaries, facilities, and start-up funds are available. Send curriculum vitae, statement of research interests, and names of three references by 15 November 1989. Applications are due 15 November 1989. Text: Neurobiology Search Committee T. H. Morgan School of Biological Sciences University of Kentucky Lexington, KY 40506-0225 An Equal Opportunity/Affirmative Action Employer.

U.S. DEPARTMENT OF ENERGY

OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH

Alexander Hollaender

DISTINGUISHED POSTDOCTORAL FELLOWSHIP PROGRAM

Research Opportunities in Related Life, Biological, and Environmental Sciences

- Research in OER-sponsored programs
- Tenable at various national laboratories
- Stipends $35,000
- Doctoral degree received after April 1, 1988
- U.S. citizens or PRA eligible

For information and applications:

Hollaender Postdoctoral Fellowships

Science/Engineering Education
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37837-0111
(615) 576-3190

Deadline January 16, 1990
BIOANALYTICAL/DRUG METABOLISM SCIENTISTS

Become Part of Our Research Team...The Source of Discovery...The Strength of BOEHRINGER INGELHEIM

We are an innovative and highly respected producer of over-the-counter drugs located in DANBURY, CONNECTICUT.

Due to expansion, we are seeking two senior level scientists and two scientists in the Department of Drug Metabolism and Pharmacokinetics.

Senior Scientist - Drug Metabolism - To lead this Drug Metabolism Laboratory, we seek an individual with a Ph.D. in Pharmacology or a related field or a D.V.M. (or equivalent). Experience in surgical techniques/procedures is a must with chromatography and supervisory experience a plus. The candidate we select will work closely with Medicinal Chemistry, Pharmacology, Toxicology and Pharmaceuticals personnel. The successful candidate will conduct experiments, supervise a Drug Metabolism Laboratory, develop in vivo drug metabolism models for screening lead compounds from discovery programs and collect samples for pharmacokinetics and metabolism studies. Additionally, you will develop methods for quantification of compounds and metabolites in plasma and tissues and serve on various research teams/committees. RSDP TO DEPT. MH-003-1S.

Scientist - Drug Metabolism - The Drug Metabolism Scientist selected to assist the above Senior Scientist will have a BS/MS Degree or equivalent in a Chemical or Biological Science and experience with surgical techniques and procedures. You will have the ability to analyze data, troubleshoot instrumentation and have a familiarity with computers. The duties will include preparation of quantitative comparisons of metabolic profiles in various species and isolation of major metabolites for identification. You will also develop new methods for quantification of compounds in plasma and various body tissues. RSDP TO DEPT. MH-977-1S.

Senior Scientist - Bioanalytical - The successful candidate will have a Ph.D. in Analytical or Pharmaceutical Chemistry (or equivalent) and 1 year experience in the quantitation of drugs and metabolites from biological matrices. Also required is a knowledge of trace analysis, instrumental analyses to include GC, HPLC, and GC/MS, enzymatic sample resolution and bioanalytical sample processing techniques. In addition, a working knowledge of computer databases is desirable. If selected, you will conduct experiments utilizing the above skills to fulfill research goals, supervise a laboratory staff and serve on various scientific/research teams. RSDP TO DEPT. MH-004-1S.

Bioanalytical Scientist - A BS with 3+ years experience or a MS with 1+ years experience in Chemistry or a related field is required to assist the above Senior Scientist in quantitation of drugs and metabolites from biological matrices. The person we hire will process bioanalytic samples, maintain laboratory records and utilize computer databases. RSDP TO DEPT. MH-978-1S.

Our success enables us to offer one of the pharmaceutical industry's truly superior compensation packages, a package that includes excellent salary, comprehensive medical benefits, relocation assistance and a company-matched investment savings program.

To explore your career options at BOEHRINGER INGELHEIM, send your resume and salary history, indicating the appropriate department number, in strict confidence to: BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

Group Leader - Microbiology, Molecular Biologists

The Medical Research Division of American Cyanamid Company is recognized internationally as a leader in the research and development of therapeutic compounds. We currently have the following opportunities available for dedicated professionals at our research facilities located at Lederle Laboratories in Pearl River, NY.

Group Leader - Microbiology

As a result of internal promotion, a challenging and important position exists in the fermentation development department of the Medical Research Division for a highly motivated individual with an in-depth knowledge of biotechnology. The primary technical responsibilities of this position relate to the conception, development and improvement of microbial-based processes for the production of a variety of human and animal health products such as antibiotics, recombinant DNA-derived proteins, enzymes, and other compounds with unique biological or chemical activities.

The individual we are seeking will have direct supervisory responsibility for a group of 10-12 scientists and technicians working in several project areas including microbial physiology and biochemistry, genetics, molecular biology, and biotransformation. The successful candidate must be able to work effectively in a multidisciplinary project team environment with chemists and organic chemists and process engineers.

To qualify for this highly visible position, a Ph.D. in Microbiology or a closely related field required or 4-5 years of postdoctoral experience, preferably within the industry. Previous supervisory responsibility is necessary. RSDP TO DEPARTMENT DS

Research Biochemist/Molecular Biologist

The Molecular Neurobiology Group of the CNS Research Department is seeking an individual to join our research program focusing on the isolation, characterization and molecular cloning of the voltage-gated potassium channels and the discovery of novel biological agents modulating them. This program is supported by state-of-the-art molecular biology, protein biochemistry and electrophysiological resource.

The ideal candidate will have a Ph.D. or at least 2 years' postdoctoral experience in molecular biology or protein purification and characterization. A background in Micro-manipulation of Xenopus oocytes or electrophysiology of ion channels is desirable. RSDP TO DEPARTMENT RZ

Prokaryotic Molecular Biologist

The Antibacterial Drug Discovery Group in the Department of Microbial Biochemistry and Genetics is seeking an individual to perform experiments relating to the creation of new antibacterial drug screens, the elucidation of the mechanism of action of novel antimicrobial agents and the identification of antimicrobial targets.

You'll need a BS or MS degree with a minimum of 2 years' experience in prokaryotic recombinant DNA technology. A working background in microbial genetics is preferred. RSDP TO DEPT IC

At Lederle Laboratories, you'll discover that your efforts are rewarded with a competitive salary and excellent benefits. We are located on a 380-acre campus-like setting only 23 miles north of New York City. For immediate consideration, send your resume/c.v. with salary requirements to the appropriate department code to: Professional Employment Representative, Medical Research Division, Lederle Laboratories, Pearl River, NY 10965. Equal Opportunity Employer M/F.

Lederle
RESEARCH OPPORTUNITIES FOR MEDICAL STUDENTS
1990-91 Academic Year

Research Scholars at the National Institutes of Health

Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research at the NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. Deadline for applications: January 16, 1990.

Medical Student Research Training Fellowships

Medical students in the United States spend a year doing fundamental research full time in laboratories of their choice. Deadline for applications: November 8, 1989.

For Program Announcements and Applications

Research Scholars Program
Howard Hughes Medical Institute
1 Cloister Court
Bethesda, MD 20814-1460
Telephone (301) 951-6710 or (800) 334-6301

or

Medical Student Research Training Fellowships
Howard Hughes Medical Institute
Office of Grants and Special Programs
6701 Rockledge Drive
Bethesda, MD 20817
Telephone (301) 571-0324

Awards will be announced by early April, 1990.

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
DOCTORAL FELLOWSHIPS IN BIOLOGICAL SCIENCES

1990 Competition

Fellowships are for full-time study toward the Ph.D. or Sc.D. degree in cell biology and regulation, genetics, immunology, neuroscience, and structural biology.

Fellowship Terms

Three-year initial awards

- Two-year extensions possible
- $12,900 annual stipend, effective June 1990
- $11,700 annual cost-of-education allowance, effective June 1990

Eligibility

Less than one year of postbaccalaureate graduate study in biology
- College seniors
- First year graduate students
- M.D., D.O., D.D.S., D.V.M. students or professionals

If in M.D./Ph.D. program
- Less than one year equivalent of tuition support

No citizenship requirements
- U.S. citizens may study abroad
- Others must study in the United States

Schedule

Application deadline: November 9, 1989
Awards announced: Early April 1990
Fellowships start: June 1990 — January 1991

NOTE: Fellowships are highly competitive. In 1989 more than 1,000 applications were reviewed to select 60 fellows.

For Program Announcements, Eligibility Guidelines, and Applications

Hughes Doctoral Fellowships
National Research Council Fellowship Office
2101 Constitution Avenue, NW
Washington, DC 20418
United States of America
Telephone (202) 334-2872

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
The Eastern Virginia Medical School announces its search for a Chairperson and Professor of the Department of Obstetrics and Gynecology. The School of Medicine is dedicated to excellence in research, teaching, and clinical care. Located in Norfolk, Virginia, the School of Medicine is one of the largest medical schools in the nation, serving a population of over 1 million. The department (26 faculty, 22 residents/fellows), is internationally recognized for its research programs and its annual graduates in obstetrics and gynecology. The School of Medicine offers a residency program in obstetrics and gynecology, a fellowship in reproductive endocrinology and infertility, and a fellowship in surgical gynecology and oncology. The School of Medicine is associated with the Eastern Virginia Medical School Pharmacy and the Eastern Virginia Graduate School of Biomedical Sciences.

**POSITIONS OPEN**

**CHAIRPERSON AND PROFESSOR DEPARTMENT OF OB/GYN**

East Virginia Medical School

The University of Tennessee, Knoxville (primary campus of the state university and land-grant institution), the University of South Carolina (primary campus of the state university and land-grant institution), and the University of the South (several campuses) offers graduate education in a variety of specialties, including an APA-accredited program in clinical psychology. There are approximately 400 graduate students and 200 faculty members. The School of Medicine offers a full range of graduate education programs, including a Ph.D. in psychology, a Master of Science in counseling psychology, a Master of Science in clinical psychology, and a Master of Science in developmental psychology. The School of Medicine is affiliated with several hospitals and health centers throughout the state, providing opportunities for clinical training and research.

**CLINICIAN-INVESTIGATOR PSYCHIATRISTS UNIVERSITY OF OKLAHOMA MEDICAL CENTER**

Several new faculty positions are available for psychiatrists with research interests in affective disorders, anxiety disorders, geriatric psychiatry, psychoactive substance use disorders, and schizophrenia. Individuals with expertise in addiction medicine, neuroimaging, neuropsychiatry, psychoendocrinology, psychopharmacology, and psychopharmacology are being sought. Appointments can be at the Assistant Professor, Associate Professor, or Professor level. Interested applicants must send curriculum vitae, statement of research interests, and three references to:

Joe Westermeyer, M.D., Ph.D., Chair
Department of Psychiatry
University of Oklahoma Medical Center
4150 Harry Hines Blvd.
Oklahoma City OK 73190

The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

**DIRECTOR OF RESEARCH AND SPONSORED PROJECTS AT CALIFORNIA STATE UNIVERSITY NORTHridge, one of the largest campuses in the California State University system, will provide leadership, coordination, and administrative support in the development and implementation of a comprehensive research infrastructure. The incumbent will be responsible for the management of all sponsored research activities, including grant proposal development, budget preparation, and project management. The incumbent will also be responsible for the development of strategic plans for the future growth of the department.

**DIRECTOR OF RESEARCH AND SCIENTIFIC EDUCATION FOR THE GEORGETOWN UNIVERSITY CENTER FOR RESEARCH ON THE ENVIRONMENT.**

The Department of Environmental Studies at Georgetown University is seeking a full-time tenured or tenure-track position in environmental science. The position will focus on research and teaching in the areas of environmental science, environmental economics, and environmental policy. The successful candidate will have a Ph.D. in environmental science or a related field and a strong commitment to teaching and research in environmental science. The candidate will be expected to contribute to the development of new courses and to the supervision of graduate students. The position is available immediately.

**EUKARYOTIC MOLECULAR BIOLOGIST**

Assistant professor, tenure-track position at Kenyon College. Kenyon College is a selective liberal arts college located in Gambier, Ohio. The successful candidate will have a Ph.D. in molecular biology and/or a strong background in molecular biology and biochemistry. The candidate will be expected to develop a research program that involves the study of eukaryotic cells and the development of new courses in molecular biology. The position is available immediately.

**FACULTY POSITION IN DEVELOPMENTAL BIOLOGY**

The University of California, Berkeley is seeking applications from developmental biologists who use cellular and/or molecular genetic approaches to study fundamental problems in developmental biology. The University of California, Berkeley is a large, diverse, and dynamic research university with a strong commitment to excellence in teaching and research. The successful candidate will be expected to develop a strong research program and to be a productive member of the faculty. The position is available immediately.

**FACULTY POSITION IN INHERITANCE AND GENETICS**

The Department of Genetics at the University of California, Berkeley is seeking applications from geneticists who use molecular genetic approaches to study fundamental problems in inheritance and genetics. The University of California, Berkeley is a large, diverse, and dynamic research university with a strong commitment to excellence in teaching and research. The successful candidate will be expected to develop a strong research program and to be a productive member of the faculty. The position is available immediately.

**DIRECTOR OF PHYSIOLOGY ASSISTANT PROFESSOR, FACULTY POSITION, cell biology, physiology, and pharmacology.**

The University of Wisconsin–Madison invites applications for a tenure-track, junior-level faculty position in cell biology, physiology, and pharmacology. The department is particularly interested in applicants whose research and teaching focus on cellular and molecular mechanisms of disease. The successful candidate will have a Ph.D. in a related field and a strong commitment to teaching and research. The position is available immediately.

**DIRECTOR OF RESEARCH AND DEVELOPMENT OF THE UNIVERSITY OF VIRGINIA INSTITUTE FOR RESEARCH AND EDUCATION IN THE LIFE SCIENCES (IRLS)**

The University of Virginia (UVA) is seeking an outstanding scientist to lead the Institute for Research and Education in the Life Sciences (IRLS). The IRLS is a multidisciplinary institute that supports research and education in the life sciences, including genetics, developmental biology, and molecular biology. The successful candidate will have a Ph.D. in a related field and a strong commitment to excellence in teaching and research. The position is available immediately.

**DIRECTOR OF MEDICAL RESOURCES (IMR) UNIVERSITY OF CALIFORNIA**

The University of California (UC) is seeking an outstanding scientist to lead the Institute of Medical Resources (IMR). The IMR is a multi-disciplinary institute that supports research and education in the life sciences, including genetics, developmental biology, and molecular biology. The successful candidate will have a Ph.D. in a related field and a strong commitment to excellence in teaching and research. The position is available immediately.
For more than a century the employees of Burroughs Wellcome Co. have applied their talents to the discovery and development of important new medicines. Their abilities and initiative have brought our Company preeminence in both the pharmaceutical industry and the scientific world...as our recent Nobel winners give eloquent testimony.

GREAT PEOPLE MAKE A GREAT COMPANY

You can begin your career in the Wellcome Research Laboratories if you have interest and qualifications in the following areas of the Division of Pharmacology:

Jr. Research Pharmacologist (Electrophysiology)

Pos.#3015-4: To assist the supervisor of the Biophysics Laboratory with the experimental investigation of the effects of potential CNS active drugs on synaptic transmission. Candidates need a Master’s degree in a life science with coursework or experience in electrophysiology OR a Bachelor’s degree in a life science with two years practical experience in electrophysiology. Experience with single-channel recording preferred.

Jr. Research Pharmacologist (Cardiovascular Biochemistry)

Pos.#60670-4: To participate in the discovery and development of therapeutic agents for cardiovascular diseases. Specified areas of research will be directed at defining the regulation of receptor mediated signal transduction. Candidates should have a Bachelor’s degree in biological or chemical science with two years laboratory experience in pharmacology/physiology or biochemical pharmacology OR a Master’s degree in biochemistry or pharmacology. Other factors to be considered include: degree in biochemical pharmacology; experience in molecular cardiovascular pharmacology/physiology; experience in the isolation and purification of subcellular membranes and enzymes; familiarity with receptor binding methods and receptor-mediated second messenger generation; tissue culture and SDS-PAGE experience.

Jr. Research Pharmacologist (Biochemistry)

Pos.#61220-4: To perform neurochemical and pharmacological studies directed toward the discovery and development of novel CNS active agents. Candidates must have a Master’s degree in pharmacology, biochemistry or physiology OR a Bachelor’s degree in biological or chemical science with two years practical laboratory experience in pharmacology or a related discipline such as physiology or biochemistry. Other factors to be considered include: experience with neurochemistry; experience with in vivo and in vitro techniques; ability to read and comprehend literature in a specific scientific area and utilize the knowledge to study a research problem; prepare and defend written and oral summaries of data.

Jr. Research Biochemist (Biochemistry)

Pos.#61277-5: This position is in the Neuroscience Section of the Medicinal Biochemistry Division. The successful candidate will be responsible for drug screening. Qualified candidates must have a Master’s degree in chemistry, biochemistry, biology or pharmacology with 2 years relevant research experience OR a Bachelor’s degree in the above scientific disciplines plus 3 years relevant research experience. Background in biochemistry, enzymology and ligand binding assays along with experience in the use of personal computers and data acquisition devices required. In vivo drug testing experience and familiarity with protein purification techniques, spectrophotometry, HPLC, radiometric techniques and general analytical and biochemical techniques desirable. Ability to design experiments, analyze data and write test reports preferred.

The pride of working for an industry leader is one of our benefits here. But there are others more tangible...our salaries and the finest benefit program in the industry. It includes the best pension plan in the industry, comprehensive health and dental plans, an excellent savings plan...even fitness facilities. If you are interested in working for us, we would like to hear from you. Submit your resume indicating position number in your cover letter, by November 6, 1989 to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on job opportunities with Burroughs Wellcome Co. at Research Triangle Park, call our Job Information Line at (919)248-8347 from any touch tone phone.

BURROUGHS
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An Equal Opportunity Employer
POSITIONS OPEN

FACULTY OPENING IN PHYSICS
UNIVERSITY OF CALIFORNIA
BERKELEY

The Physics Department of the University of California at Berkeley is in the final stages of preparing a budgetary authorization for a tenured associate or full professor, effective July 1, 1990. We encourage applications from both experimentalists and theorists in condensed matter physics, including low-temperature physics, astrophysics and space physics, nuclear physics, atomic physics, and newly emerging subfields of physics.

Please send curriculum vitae, bibliography, statement of research interests, and list of references to: Professor P. Buford Price, Chairman, Physics Department, University of California, Berkeley, CA 94720, before 10 December 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
SYRACUSE UNIVERSITY
DEPARTMENT OF PHYSICS

The Department of Physics at Syracuse University anticipates the addition of up to ten new faculty lines as part of a major expansion program. The department currently has research groups in the areas of biophysics, condensed matter physics, particle physics and relativity. Applications are invited for senior positions in these or other areas with the expectation of adding subsequent junior positions to form new and outstanding research groups. Additionally, individual tenure-track positions are available in the areas of applied physics and physics education. Substantial funds for the initiation of research programs will be available. Applications, including curriculum vitae, summary of research and teaching interests, and at least three letters of recommendation, should be sent to: Faculty Search Committee, c/o Professor Marvin Goldberg, Department of Physics, Syracuse University, Syracuse, NY 13244-1150. Syracuse University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN EVOLUTIONARY ECOLOGY AND PLANT POPULATION BIOLOGY

The Department of Biological Sciences, University of Cincinnati, is continuing an expansion of its research and teaching in the areas of ecology and evolutionary biology and announces the availability of two tenure-track positions at the level of assistant professor for 1990 to 1991 academic year. The University of Cincinnati has an enrollment of approximately 35,000 students, with 29 full-time faculty and approximately 65 graduate students in biology. We seek highly qualified candidates for these positions who will be expected to develop vigorous, externally funded research programs, train graduate students, and teach courses at both undergraduate and graduate levels. Ph.D. is required and postdoctoral experience is preferred. Applicants should submit a description of their research interests and future research plans, a current curriculum vitae, and three letters of reference to the appropriate Search Committee Chairman. Deadline for receipt of applications is 15 November 1989. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

The openings include:

1) EVOLUTIONARY ECOSOLOGIST: Conduct research designed toward understanding the evolutionary implications of species interactions, with special consideration given to research which emphasizes coevolutionary issues. Preference will be given to those using mathematical and/or molecular/biochemical approaches in their research. Address application materials to: Dr. Thomas C. Kane, Evolutionary Ecology Search, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006.

2) PLANT POPULATION BIOLOGIST/ECOLOGIST: Conduct research emphasizing evolutionary and/or ecological interactions in the study of natural plant populations and communities. Preference will be given to those using quantitative and/or molecular/biochemical techniques and field experiments. Address application materials to: Dr. Jerry A. Snider, Plant Population Biology Search, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006.

POSITIONS OPEN

FACULTY POSITION

The Materials Department at the University of California, Santa Barbara, invites applications for a tenure-track faculty position in the area of materials characterization with emphasis on transmission electron microscopy and microanalysis. The position is available. The Materials Department has a multidisciplinary focus on such areas as: electronics materials, macromolecules, structure analysis of materials, and materials processing. The applicant should have the desire to pursue multidisciplinary research with the other groups in the department. A position in this area with high resolution transmission electron microscopy and TEM-based microanalysis is expected. Applicants with expertise in the fields of diffraction physics and electron-matter interaction are encouraged to apply. The UCSB electron microscopy facility is equipped with four transmission electron microscopes and two scanning electron microscopes. The analytical laboratory is a shared facility with a full-time staff engineer for maintenance, development, and student instruction.

Responsibilities include teaching and developing strong research programs. A Ph.D. or equivalent degree and evidence of excellent research and teaching expertise are required. Joining other departures at UCSB are possible. Salary and rank dependent on qualifications.

To ensure full consideration, applications should be received by the department before 15 November 1989. Candidates should send a resume containing teaching and research accomplishments to: Professor Pierre Petroff, Materials Department, University of California, Santa Barbara, CA 93106. The University of California is an Equal Opportunity/Affirmative Action Employer. Proof of US citizenship or eligibility for US employment will be required prior to employment (Immigration Reform and Control Act of 1986).

FACULTY POSITIONS
DEVELOPMENTAL BIOLOGY/GENETICS
PRINCETON UNIVERSITY

The Department of Biology at Princeton University invites applications for one tenure-track position in the area of developmental biology and developmental genetics. Candidates should have a Ph.D. degree and research experience in the development of eukaryotes. Appointments at either the junior or senior level will be considered. Applicants should send curriculum vitae, the names of three references, and a summary of research interests to:

Developmental Biology Search Committee
Department of Biology
Princeton University
Princeton, NJ 08544

Princeton University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY
UNIVERSITY OF COLORADO BOULDER

This department is beginning a major expansion into new areas, with recruitment for a substantial number of new faculty. At this time we are seeking to fill three positions over the next 2 years. We are most interested in candidates at the assistant professor level whose research deals with mechanisms involved in cell communication, signal transduction, or cellular responses. However, we will also accept applications from exceptional individuals in other areas. We will consider only candidates who have demonstrated outstanding research ability. Other selection criteria will include teaching and/or potential for interacting with colleagues. Candidates should have a résumé, reprints, an outline of proposed research, and at least three letters of reference sent to: Professor John H. C. Guillemin, Search Committee, Department of Biology, University of Colorado, Boulder, CO 80309. Dossiers must be complete by 15 November 1989, but earlier applications will be considered promptly.

The University of Colorado has a strong commitment to diversity. We are particularly interested in applications from women, ethnic minorities, and disabled individuals.

POSITIONS OPEN

FACULTY POSITION
CARNEGIE MELLON UNIVERSITY

Applications are invited for a tenure-track position in the Department of Biological Sciences at Carnegie Mellon University. Applicants must be strongly motivated and have a research background in an area of biology. Candidates who are just completing their postdoctoral research training will be considered for a position of assistant professor, whereas those with postdoctoral experience who have published high-quality papers may be considered for appointment at a higher level. To apply, send curriculum vitae and a concise description of research interests (no more than three pages), and, in addition, three letters of recommendation sent to:

Dr. John Woolfard
Chair, Cell Biology Search Committee
Department of Biological Sciences
Carnegie Mellon University
4400 Fifth Avenue
Pittsburgh, PA 15213


FACULTY POSITIONS IN PHARMACOLOGY

The Department of Pharmacology at the University of Texas Southwestern Medical Center at Dallas seeks applicants for tenure-track positions at the level of assistant or associate professor. Applicants must have a relevant Ph.D. degree and a strong postdoctoral record establishing their potential for a strong research program. Successful candidates must show evidence of a firm commitment to a career in independent research. We are particularly interested in applicants who plan to apply to NIH grants in cellular or molecular biology or biochemistry to fundamental problems of pharmacological interest. Responsibilities include teaching graduate and/or medical students after the first year of employment. Send curriculum vitae, list of three referees, and a brief description of proposed research to: Alfred G. Gilman, Chairman, Department of Pharmacology, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
GEOLGY/ CHEMISTRY/BIOLOGY (CHAIR) PROGRAM EMPHASIS IN THE MARINE SCIENCES

As part of a continuing expansion of faculty and a growing commitment to research, the University of South Alabama (USA) seeks to fill four tenure-track positions in the College of Sciences. These faculty positions will be closely involved in the development and implementation of the interdisciplinary Ph.D. program in Marine Sciences. Available positions are in the following disciplines:

GEOLGY (ASSOCIATE/ASSOCIATE PROFESSOR)
CHEMISTRY (ASSISTANT/ASSOCIATE PROFESSOR)
BIOLOGY (ASSOCIATE/FULL PROFESSOR)

The University of South Alabama is a young and growing urban institution of 11,000 students located in Mobile, Alabama. The Mobile metropolitan area has more than 500,000 people and its Gulf coast location provides pleasant year-round temperatures. Opportunities for collaboration exist with faculty members in the USA Colleges of Medicine, Allied Health, and Engineering. In addition, there is active faculty/student interaction, and close collaboration with the Dauphin Island Sea Lab located on a 36-acre campus thirty miles south of Mobile and operated by the Alabama Marine Environmental Sciences Consortium. Candidates should have a postdoctoral experience, a strong publication record, and show evidence of sustaining a productive program of externally funded research. Special consideration will be given to one or more candidates capable of developing a graduate-level curriculum in physical oceanography. Salaries are for 9 months and will be competitive. The University encourages applications from women, ethnic minorities, and disabled individuals. Applications are invited from qualified individuals of any race, color, sex, marital status, national origin, age, religion, or handicap. Please send curriculum vitae, statement of research interests, and the names of three references to: Dr. Gene Crossley, Dean, College of Arts & Sciences, University of South Alabama, Humanities Building Room 118, Mobile, AL 36688. Telephone: 205-460-6282.

The University of South Alabama is an Affirmative Action/Equal Opportunity Employer. M/F/H.
University of California, Davis

CELLULAR NEUROBIOLOGY

TRAINING PROGRAM

Funding is available to support qualified individuals for training in cellular neurobiology at both postdoctoral and predoctoral levels. Successful applicants will join a young, vigorous neurobiology group that is highly interactive and in which collaborations are common. We particularly encourage participation of trainees in projects involving the expertise of two or more training faculty.

Hilary Anderson, Development of insect nervous systems
Richard Carlson, Cell biology of axonal and muscle regeneration
Leo Chalupa, Prenatal development of mammalian visual system
Carol Erickson, Morphogenesis and differentiation of neural crest
Andrew Ishida, Cell biology of the retina
Mark McMahon, Molecular biology of ACh receptors
Brian Mulloney, Generation and modulation of motor patterns
Pamela Pappone, Biophysics of ion channels
Robert Scobey, Retinal physiology
Barry Wilson, Cholinesterases and neurotoxicology
Martin Wilson, Cell biology of the retina

For more information, contact Dr. Brian Mulloney, Director, Cellular Neurobiology Training Program, Department of Neurology, University of California, Davis, CA 95616, or phone (916) 752-7468

UCD is an Equal Opportunity / Affirmative Action Institution.

BIOMEDICAL RESEARCH

Major expansion of programs at ICI Pharmaceuticals creates excellent opportunities for Research Scientists.

ICI Pharmaceuticals, ranked among the top pharmaceutical research organizations in the world, is dedicated to the challenge of discovering and developing important new therapeutic agents. To support our continued growth and commitment to research, we are currently undergoing a major expansion of programs in Biomedical Research at our Wilmington, DE headquarters.

We have many openings that offer excellent opportunities for individual creativity, visibility and advancement:

**Pulmonary Pharmacology**

**PhD Senior Research Scientists** — Positions require a PhD degree with at least 2 years' postdoctoral experience for studies in the listed areas:
- Pharmacological effects of potassium channel modulators in *in vitro* and *in vivo* paradigms: Experience with rubidium efflux techniques required.
- Airway hyperresponsiveness: Development of models and acquisition of *in vitro* and *in vivo* information relevant to the mechanisms of airway hyperresponsiveness. Knowledge of pulmonary/physiology required.
- Pharmacologic examination of isolated airways: Measurement of contractile and relaxant responses in *in vitro* to exogenously applied and endogenously released substances; modulation of responses by pathologic factors. Experience in pharmacology of isolated tissues desired.

**BS/MS Pharmacologists** — Positions require a degree in a biological science with background in pulmonary pharmacology:
- Peptide-Hormone Receptor Assays: Biochemical background and experience with radioligand binding assays required.

**CNS Pharmacology**

**Neuropharmacologist** — PhD in Pharmacology with 3-7 years' experience. Emphasis in operant models and expertise in drug interactions in behavioral paradigms predictive of psychotherapeutic agents. Prior industrial experience in drug discovery programs desirable, with working knowledge of dopaminergic receptor functioning and selected systems pertaining to antipsychotic therapy. Supervisory experience a plus.

**Neuro-Electrophysiologist** — BS/MS in Physiology or Pharmacology with experience in *in vitro* electrophysiological techniques to study ion channels. Proficiency in the use of extra- and intracellular recording techniques, and the patch-clamp technique for whole cell and/or single cell channel recording required. Primary cell culture experience is preferred. Explore receptor and channel mediated cellular function in a newly created Molecular and Cellular Pharmacology unit.

**Pharmacologists** — BS/MS in Biology or Biochemistry with experience in neurobiology or cell biology to work on receptor binding techniques, excitatory amino acid induced second messenger, calcium flux, neurotoxicity, etc. Experience with tissue culture, HPLC highly desirable.

**General Pharmacology**

**Pharmacologist** — BS/MS in a biological science or related discipline for work involving *in vitro* tests using isolated tissues for characterization of pharmacological activity of compounds. Familiarity with receptor function and electrolyte transport, and membrane pharmacology/physiology preferred. Knowledge of epithelial tissues desirable. *In vivo* experience a plus.

We offer an excellent salary and benefits program including tuition aid for approved graduate study and relocation assistance, plus the opportunity to build a career with one of the world's leading pharmaceutical research organizations.

Please send your resume with salary requirement, indicating your field of interest, to:

Mary S. Carroll, ICI Pharmaceuticals Group, Wilmington, DE 19897.

ICI Pharmaceuticals Group

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POSITIONS OPEN

FACULTY POSITION TENURE-TRACK OPENING, Department of Biology, UCLA, plant cell/developmental biology at the molecular level. The position is in the Division of Molecular, Cell, and Developmental Biology in the department, and involves participation in the Interdepartmental Plant Molecular Biology Group. Potential research areas of interest include plant/microbe interactions, regulation of reproductive development, signal transduction mechanisms, and hormonal regulation of development, but other relevant areas will also be considered. Applicants should be committed to making a substantial contribution to teaching as well as to developing a strong and innovative research program. Submit curriculum vitae, a statement of research and teaching interests, and have three letters of recommendation sent to: Dr. E. M. Tobin, Chair, Search Committee, Biology Department, UCLA, Los Angeles, CA 90024 by 1 December 1989. UCLA is an Equal Opportunity/Affirmative Action Employer, and we encourage applications from women and members of minority groups.

Full-time junior FACULTY RESEARCH POSITION available in the Harvard School of Dental Medicine’s Department of Oral and Maxillofacial Surgery. Responsibilities include developing and conducting basic research and supervising undergraduate and graduate student research in the department’s new laboratory at Massachusetts General Hospital. Current laboratory interests include wound healing, bone healing, peripheral nerve repair, and carcinogenesis. For further information, and curriculum vitae to: Dr. R. Bruce Donoff, Department of Oral and Maxillofacial Surgery, Massachusetts General Hospital, Fruit Street, Boston, MA 02114.

WAYNE STATE UNIVERSITY

INSTITUTE OF CHEMICAL TOXICOLOGY WAYNE STATE UNIVERSITY

The Institute of Chemical Toxicology, Wayne State University, seeks applications for tenure-track FACULTY POSITIONS at the ASSISTANT, ASSOCIATE OR PROFESSOR LEVEL, faculty research-track positions at all academic ranks are also available. Completely renovated laboratory and well-equipped support facilities are available along with substantial opportunities for collaboration. Emphasis is directed toward molecular/biochemical toxicology, respiratory toxicology, and metals toxicology. Preference within these areas will be accorded to individuals employing modern molecular and cellular approaches in the study of cell differentiation, cellular secretions, oncogene expression, gene regulation, transgenic/posttranscriptional regulation, and chemically-mediated retrovirus activation. The successful candidates are expected to develop strong independent research programs, to collaborate in existing research programs, and to participate in biotechnology education. Highly competitive offerings of laboratory space and start-up funds accommodate these positions. Applicants should have a Ph.D. and/or M.D. degree and be relevant postdoctoral research experience. Send curriculum vitae by 30 December 1989 to:

Dr. Raymond F. Novak
Director, Institute of Chemical Toxicology
Wayne State University
2727 Second Avenue, Room 402
Detroit, MI 48201
Wayne State University is an Equal Opportunity/Affirmative Action Employer.

GENETICIST—The Department of Biology of the University of North Carolina at Greensboro (UNCG) has a 9-month tenure-track position for an assistant professor of biology to be filled by August 1990. We seek an individual with an earned doctorate to teach genetics and advanced courses at the undergraduate and graduate level and to develop a research program. Applicants should submit, by 12 January 1990, a statement of research and teaching interests, a curriculum vitae, representative reprints, a list of science courses completed, and three letters of reference to: Dr. Robert Canon, Search Committee, Department of Biology, UNCG, Greensboro, NC 27412-5001. An Equal Opportunity/Affirmative Action Employer. Minority and female candidates are especially encouraged to apply.

JPL/NASA VISITING SENIOR SCIENTIST

Chief Scientist/Office of Space Station

The Jet Propulsion Laboratory invites applications to its Visiting Senior Scientist Program for the position of Chief Scientist/Office of Space Station.

The Office of Space Station at NASA Headquarters is seeking an individual with a background in physics, biology or chemistry to aid in defining the scientific uses of Space Station Freedom. The position requires a Ph.D. or equivalent experience and training as well as a record of peer-reviewed research publications. Tenured faculty members with experience in NASA programs are the preferred choice, although qualified individuals from nonprofit research institutions may also be considered.

Responsibilities include ensuring proper attention to the scientific uses of the Space Station and participating in the definition of the Space Station Program with the Office of Space Station, serving as the senior advocate of scientific interests within the program, engaging in interactions with the Associate Administrator for Space Station on user-related scientific issues and in the formulation of Space Station policy and plans, and serving as principal spokesperson of the Office of Space Station to the scientific user community.

The appointee is expected to work closely with government sponsors of potential scientific activities and with appropriate advisory committees and Congressional interests. Frequent travel and residence near the NASA Headquarters (in Washington, DC area) will be required. Normal assignment in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. Citizens or Permanent Residents, and are expected to return to their home institution following their NASA assignment. Please provide curriculum vitae, bibliography and the names of four references to:

Department T-31
Dr. Harry Ashkenas, 180-900
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109
(818) 354-8251
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As a worldwide industry leader with over $5 billion in sales, Abbott Laboratories has consistently proven itself capable of meeting the toughest challenges in the health care products marketplace. We've led the way with new treatments for cancer, epilepsy, and cardiovascular ailments. Our Erythrocin has become one of the most prescribed drugs. We've recently introduced Depakote, the fastest growing anticonvulsant on the market. And we're continuing to look ahead to major achievements, as seen by overall research commitments totaling $455 million in 1988.

The Neuroscience Research Division of Abbott's Pharmaceutical Products Division seeks top professionals to join our drug discovery team as we develop new agents to treat central nervous system disorders.

**MOLECULAR NEUROPHARMACOLOGIST (Ph.D.)** — The selected individual will be involved in the discovery of novel cognition enhancers and/or peptide satiety agents. Experience with in vitro test procedures including receptor binding and second messenger systems is essential. A Ph.D. in Neuroscience, Pharmacology or Biochemistry, and at least 2 years relevant postdoctoral experience are required. **Reply to Job MP-7511.**

**BEHAVIORAL PHARMACOLOGIST (Ph.D.)** — The qualified candidate will have experience with and a demonstrated record of innovation in animal test procedures related to drug evaluation. At least 5 years of postdoctoral background is essential. Cognition and industry experience would be an advantage. **Reply to Job BP-7613.**

**PHARMACOKINETICIST (Ph.D.)** — The selected candidate will have a background in biochemistry or pharmacokinetics, and experience with in vivo and in vitro models of peptide drug absorption and metabolism. At least 9 years of relevant postdoctoral research experience is essential. Industry experience is desired. **Reply to Job PK-7612.**

**MOLECULAR NEUROBIOLOGIST (Ph.D.)** — The selected individual will participate in ongoing research involving trophic factors and gene-based drug therapies. A background in advanced molecular biology and a minimum of 2 years postdoctoral experience are essential. A demonstrated record of independent publication is also required. An interest in immune aspects of CNS function is preferred. **Reply to Job MN-7551.**

**RESEARCH ASSOCIATES/BEHAVIOR (B.S./M.S.)** — The qualified individual will have 2 or more years experience in Behavioral Pharmacology or a related area. Knowledge of animal surgery, drug administration and computer-based behavioral test procedures is preferred. **Reply to Job RAB-7613.**

**RESEARCH ASSOCIATES/ELECTROPHYSIOLOGY (B.S./M.S.)** — At least 2 years experience in extracellular, intracellular, and/or patch clamp recording from a variety of preparations is required. **Reply to Job RAE-7550.**

The Neuroscience Research Division is committed to a team approach to the discovery of new therapeutic entities and encourages its staff to maintain a high level of visibility within the neuroscience community.

Headquartered in an attractive suburban location just 30 miles north of Chicago, Abbott provides you with an excellent salary and benefits package including profit sharing and stock retirement plans. For consideration, please forward your resume, indicating Job Number interested in and salary history, to: Patricia Handy, Corporate Placement, Abbott Laboratories, 1 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

**MEETING BOUND?**

Abbott representatives will be at the American Society for Neuroscience Conference in Phoenix, Oct. 30 - Nov. 2. To arrange an interview, please forward your resume to Patricia Handy, at Abbott Laboratories by October 23rd.

**ABBOTT LABORATORIES**

[Logo]

Quality Health Care Worldwide 1888-1989
POSITIONS OPEN

FACULTY POSITIONS IN CHEMISTRY

The Chemistry Department at the University of California, Berkeley, solicits applications for positions as assistant professor of chemistry, beginning in the fall of 1990. The department, which includes both theoretical and experimental chemistry, is committed to achieving a racially, sexually, and culturally diverse faculty.

The Chemistry Department at the University of California, Berkeley, solicits applications for positions as assistant professor of chemistry, beginning in the fall of 1990. The department, which includes both theoretical and experimental chemistry, is committed to achieving a racially, sexually, and culturally diverse faculty.

The application fee is $10.

Interested candidates should send a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation to: Berkeley, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is January 1, 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

FOUR ASSISTANT PROFESSORS

The Department of Biological Sciences at Northern Arizona University invites applications for four tenure-track assistant professorships. Ph.D. and postdoctoral experience are expected. Establishment of a strong externally funded research program and contribution to the undergraduate and graduate curricula are expected.

VASCULAR PLANT SYSTEMATIST: Teaching will include general botany and courses in plant systematics. Research is expected to include systematics and conservation of biodiversity. This position is expected to include teaching and research responsibilities. The successful candidate will have a Ph.D. in botany or a related field and have postdoctoral experience in systematics. A strong record of research and publication is expected.

FIRST-CLASS ZOOLOGIST: Research is expected to include the anatomy, physiology, and research of natural history. The candidate will be expected to contribute to the undergraduate and graduate curricula. The successful candidate will have a Ph.D. in zoology or a related field and have postdoctoral experience in research and publication. A strong record of research and publication is expected.

MICROBIOLOGIST: Teaching will include undergraduate medical microbiology. Research may be expected in any area of microbiology.

INVERTEBRATE ZOOLOGIST: Research is expected to include the anatomy, physiology, and research of natural history. The candidate will be expected to contribute to the undergraduate and graduate curricula. The successful candidate will have a Ph.D. in zoology or a related field and have postdoctoral experience in research and publication. A strong record of research and publication is expected.

FIELD/COMPARATIVE ENDOCRINOLOGIST: Research is expected to include the anatomy, physiology, and research of natural history. The candidate will be expected to contribute to the undergraduate and graduate curricula. The successful candidate will have a Ph.D. in zoology or a related field and have postdoctoral experience in research and publication. A strong record of research and publication is expected.

Interested candidates should send a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation to: Berkeley, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is January 1, 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

GENETICIST

DEPARTMENT OF BIOLOGY
UNIVERSITY OF PENNSYLVANIA

Applications are invited for a tenure-track faculty position at the assistant or associate professor level in the discipline of genetics. The successful candidate will be expected to have established a strong research program in genetics and to be able to contribute to the undergraduate and graduate curricula. Preference will be given to applicants who have a Ph.D. in genetics or a related field and have postdoctoral experience. A strong record of research and publication is expected.

Interested candidates should send a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation to: Berkeley, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is January 1, 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST

The Department of Biomedical Sciences, Virginia-Maryland Regional College of Veterinary Medicine at the Virginia Polytechnic Institute and State University, is inviting applications for a tenure-track position as MOLECULAR BIOLOGIST. Teaching responsibilities will include teaching and research in molecular biology and biochemistry. The successful candidate will be expected to have established a strong research program in molecular biology and to be able to contribute to the undergraduate and graduate curricula. Preference will be given to applicants who have a Ph.D. in molecular biology or a related field and have postdoctoral experience. A strong record of research and publication is expected.

Interested candidates should send a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation to: Berkeley, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is January 1, 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

LIFE SCIENCES EDITOR

The Department of Chemistry at the University of Notre Dame has a tenure-track faculty position available at the assistant professor level. The application deadline is January 1, 1989. The successful candidate will be expected to have a Ph.D. in chemistry or a related field and have postdoctoral experience. A strong record of research and publication is expected.

Interested candidates should send a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation to: Berkeley, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is January 1, 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.
Discover a bright future at Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc. As a subsidiary of Eastman Kodak, what makes Sterling shine is the unbeatable combination of a small, friendly company environment and the depth, resources, and growth potential of a large multinational corporation. Discover Sterling today by applying for this position in our Pharmacology Department:

STERLING CAREERS

Sr. Research Scientist

An excellent opportunity exists for a scientist to participate in a challenging, interdisciplinary approach to basic research and drug discovery in the neurobiology program. The successful candidate will utilize electrophysiologic techniques to study pharmacologic and disease-related events in the CNS. Familiarity with both in vivo and in vitro techniques is highly desirable.

The neurobiology program is currently pursuing research for the novel treatment of pain, neurodegeneration and psychosis.

The Rensselaer facility is located near Albany, New York, which is a center for summer and winter recreational activities.

In exchange for your talents, we offer a competitive salary and benefits package and outstanding career opportunities for personal and professional growth. For confidential consideration, please forward your resume with salary history/requirements to:

Employee Relations, SRG-4, Sterling Research Group, A Division of Sterling Drug Inc., 81 Columbia Turnpike, Rensselaer, NY 12144. Equal Opportunity Employer M/F/H/V.

ASSOCIATE PROVOST FOR RESEARCH/EXECUTIVE DIRECTOR, WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION

WEST VIRGINIA UNIVERSITY

West Virginia University is a land-grant research institution with 15 colleges. Founded in 1867, it is the doctoral degree-granting institution in the state and enrolls 18,500 students in 176 degree programs. Morgantown is a diverse, scenic community of approximately 45,000, with easy access to Pittsburgh and Washington, DC and ample cultural and recreational opportunities.

Responsibilities:

The Associate Provost for Research reports directly to the Provost and has major responsibility for research development; in addition, the person selected will serve as the Executive Director of the newly formed West Virginia University Research Corporation. The Associate Provost for Research will have University-wide responsibilities, which include the following:

- Strategic planning for research, including the development, implementation, and maintenance of research policy; organization of institution-wide research management; and development of consortia
- Research liaison activities with federal and state agencies, business and industry, and other educational institutions
- Facilitation and oversight of faculty and student research and scholarly activity
- Coordination of University research advisory groups and supervision of University research centers, institutes, and support units
- Serve as the Executive Director of the West Virginia University Research Corporation (WVURC); responsible for implementing and overseeing all policies and procedures of the WVURC and will assure that the WVURC is responsive to the research needs of West Virginia University

Qualifications:

We seek to appoint an academic leader possessing qualifications that include the following:

- A background in successful administrative leadership
- Ph.D. or equivalent terminal degree, with research credentials to qualify for tenure in an academic department
- Demonstrated ability in and commitment to developing a strong institutional research program
- Demonstrated ability to negotiate and obtain funding at the highest administrative levels of government, business, and industry
- Sensitivity toward and ability to work with diverse groups
- Commitment to affirmative action and equal opportunity

Salary:

Salary will be commensurate with the experience and qualification of the individual selected.

Term of Appointment:

An appointment will be made for a term of five years, 12 months per year, with the possibility of reappointment.

Applications and Nominations:

West Virginia University is strongly committed to diversity and welcomes applications and nominations from women and minority persons. Priority will be given to nomination and applications received prior to November 15, 1989. Nominations and applications will, however, be accepted until the position is filled. Applicants must submit a letter of application that addresses each of the responsibilities of the position, a current curriculum vitae, and the names and addresses of five references. Nominations and applications should be sent to:

Cyril M. Logar, Chairperson
Associate Provost for Research/Director of WVURC Search Committee
West Virginia University
College of Business and Economics
P.O. Box 6025
Morgantown, WV 26506-6025
(304) 293-4692

West Virginia University is an equal opportunity/affirmative action employer.
**DIRECTOR WATER QUALITY**

The South Florida Water Management District is a 16-county regional agency created through state legislation, which is responsible for the management of water resources in the most urbanized area of peninsular South Florida. With a staff of more than 1,200 and a budget exceeding $150 million, our agency addresses issues involving environmental protection and enhancement, water supply, flood control, and water quality protection.

We currently seek a dynamic experienced manager to fill the position of Director of Water Quality to oversee the District's monitoring, research, and water quality data collection programs. The selected candidate will be responsible for the daily supervision of a staff of 24, the development and administration of annual budget, as well as representing the District's Water Quality Program to state and local officials.

This uniquely challenging opportunity requires a Master's degree in Water Quality or related field with emphasis in the areas of chemical or biological limnology; Ph.D. preferred. The selected candidate will have a proven track record of increasingly responsible experience as a supervisor or manager with five to ten years experience preferred. Solid communication/interpersonal skills are a must.

In exchange for your expertise, we offer a competitive salary based on experience and an excellent benefits program. For consideration please submit your resume to: Karen Ansell, Employment Administrator, South Florida Water Management District, P.O. Box 24680, West Palm Beach, FL 33416-4680 or call (407) 866-8800 x8365.

South Florida Water Management District
Equal Opportunity Employer

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**ROCKEFELLER FOUNDATION BIOENGINEERING CAREER FELLOWSHIPS**

The Rockefeller Foundation announces a program of career development fellowships designed to enable scientists from developing countries, trained at outstanding centers for advanced research in biotechnology, to continue to work at those or other institutions for three months each year, over a period of at least three years, conducting advanced research and keeping abreast of new developments in their fields. The program will focus upon the development and application of advances in molecular and cellular biology and immunology relevant to agriculture, health, and reproductive biology.

Funding will be shared between the Foundation and the host laboratory, with the Foundation providing travel and per diem support. It is hoped that the fellowships will encourage the establishment of ongoing working relationships between outstanding younger scientists working at third world institutions, and research teams at advanced laboratories.

Applicants to this program should have at least Ph.D. - or M.D.-level training, a proven record of scientific productivity, and a permanent position at a research or teaching institution in their home country. A written project proposal must be developed and submitted jointly by the candidate and the laboratory sponsor.

Information about application procedures can be obtained by writing to Biotechnology Career Fellowships, Fellowship Office, Rockefeller Foundation, 1133 Avenue of the Americas, New York, New York 10036, USA.

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**DEPARTMENT CHAIR OF BIOLOGICAL SCIENCES**

STATE UNIVERSITY OF NEW YORK AT BUFFALO

The Department of Biological Sciences at the State University of New York at Buffalo is searching for a Full Professor to build an outstanding research program and assume the position of Department Chair within one year of arrival. The starting date is negotiable and the successful candidate could begin as soon as September 1990. The Department presently consists of 27 full-time tenure-track faculty with research strengths in the areas of Cell and Molecular Biology, Genetics and Developmental Biology, Cellular Physiology and Ecology. We are committed to excellence in very active undergraduate and graduate programs. Our graduate program currently consists of approximately 50 full-time students. In addition to those who are supported by external grants, many of our graduate students are supported by state funds.

Superb core facilities are available to the Department for DNA and peptide synthesis and sequencing, computer structure modeling, monoclonal antibody production, animal facilities and state-of-the-art microscopy. In addition the Department has in place a well trained staff who operate and maintain the electron microscopy lab, greenhouse, electronics shop, machine shop and scientific illustration and photography lab.

We seek an outstanding scientist with demonstrated excellence in research and a genuine interest in quality graduate and undergraduate education. It is expected that the candidate will vigorously pursue an active research program, promote Departmental and interdepartmental interactions among the faculty, provide scientific, educational and administrative leadership and continue the development of the Department towards its goal of becoming one of the leading departments in the country. The University has committed considerable resources to this goal and will provide superb setup and operating funds. The opportunity to hire a considerable number of new tenure-track faculty will be available to the new chair.

Submit nominations and applications including curriculum vitae, summary of research interests and names, addresses and telephone numbers of four references to: Dr. Ronald Berezney, Department Chair Search Committee, Department of Biological Sciences, State University of New York at Buffalo, Buffalo, New York 14260. Deadline for receipt of complete applications is December 1, 1989, or until a suitable candidate is identified. SUNYAB is an Affirmative Action/Equal Opportunity Employer.
If contributing to major pharmaceutical discovery is what you have in mind, come to Schering-Plough Research.

We're a growing $3-billion pharmaceuticals innovator recognized worldwide for our dedication to discovery. Exceptional opportunities for experienced professionals to advance their careers now exist at our Bloomfield, NJ R&D facility.

**Biotechnology/Biochemistry**

**Senior Scientist**
PhD in Molecular Biology, Immunology or Biochemistry with 2-3 years' post-doctoral experience. Experience in cDNA library construction and screening, protein structure-function studies and receptor cloning/characterization. Experience in characterization of biological responses to lymphokines is desirable.

**Senior Scientist**
Requires a PhD in Biochemistry, Biology, or Chemistry with 0-3 years' experience in the characterization and purification of proteins, glycoproteins and polypeptides. Areas of expertise include physicochemical techniques such as chemical modification, mass spectrometry, NMR and fluorescence, synthesis and sequencing of polypeptides, carbohydrate structural analysis, and immunochemical characterization of structure-function relations.

**Assistant/Associate Scientists**
Requires BS/MS in Biochemistry or related discipline and 0-4 years' experience. Protein characterization/purification experience desirable.

**Associate Scientists**
BS/MS in Biology or Chemistry. Immunology background in development and 0-4 years' experience in troubleshooting and performance of immunochemical assays essential.

**Allergy**

**Assistant Scientist**
BS/MS in a Biological Science and 0-4 years' experience working with large animals to investigate pulmonary mechanics required.

**Tumor Biology**

**Assistant/Associate Scientists**
BS/MS in Biological Sciences, Molecular Biology or Biochemistry and 0-4 years' experience. Knowledge of protein preparation and enzyme assays essential. Some experience working with transgenic animals desirable.

**Microbial Products**

**Assistant Scientist, Analytical or Organic Chemist**
MS and 0-2 years' experience. HPLC and spectroscopy experience required.

We offer highly competitive salaries and a generous benefits package. For immediate consideration, send your resume indicating salary history and position desired to: Ms. P. Valendo, Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

What you have in mind, we put in action.
POSITIONS OPEN

MOLECULAR GENETICIST

The Department of Pathology at The Children’s Hospital is searching for a qualified individual to supervise a service laboratory in molecular genetic diagnostic testing. For the appropriate candidate, an academic appointment would be at the University of Colorado Health Sciences Center, Children’s Hospital Denver, with opportunities to pursue research efforts. Applicants must have a Ph.D. in molecular biology or an equivalent area with evidence in molecular genetic testing, and be eligible for board certification in molecular genetics by the American Board of Human Genetics on or before June 1990.

Send inquiries and applications of current interests and background and/or planned research, and the names, addresses, and phone numbers of three individuals who have agreed to act as references to: Dr. Vincent Wilson, Director of Molecular Genetics, Pathology Department, The Children’s Hospital, 1056 East 19th Avenue, Denver, CO 80218-1088. Equal Opportunity Employer M/F.

MOLECULAR NEUROBIOLOGIST

ALZHEIMER’S DISEASE RESEARCH

The Department of Pharmacology and Toxicology of the Medical College of Georgia invites applications for a tenure-track position (associate or full professor) for a molecular neurobiologist with strong interests in Alzheimer’s Disease research. We seek an experienced investigator with both basic and clinical investigators as part of an Alzheimer’s Disease Research Center. The successful candidate will have a proven record of research accomplishment. Substantial research space and personnel support will be provided. The Alzheimer’s Disease Research Center is a multi-disciplinary approach to the study of this disease which includes active research programs in pharmacology and basic and clinical departments. Programs include new therapeutic approaches, novel diagnostic procedures and basic studies of etiology. The Clinical Research Center provides access to human tissue samples and autopsy materials; the Behavioral Research Center utilizes animal models including non-human primates. The candidate will also be expected to participate in Department teaching of programs, including medical and graduate students. Candidates should send curriculum vitae, description of research activities and the names of three references to: Dr. Jerry J. Buccafusco, Chairman, Search Committee, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300. Affirmative Action/Equal Opportunity Employer. Females and minorities are encouraged to apply.

MOLECULAR PHARMACOLOGY

Mayo Medical School invites applications for a tenure-track position in the Department of Pharmacology, available 1 January 1990. Ideal candidate will have primary research interests in drug metabolism and/or in the methods of molecular biology. Special attention will be given to individuals working on the molecular aspects of drug receptors and ligand-gated ion channels, but those with other interests will also be considered. Generous space and start-up funds provided in addition to an attractive package of salary and benefits. Academic rank will be determined by qualifications, established investigators are also encouraged to apply. Applicants should submit curriculum vitae and names and addresses of three or more references to: Dr. Stephen Butterworth, Ph.D., Department of Pharmacology, Mayo Medical School, 200 First Street Southwest, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

The Department of Chemistry at the University of Virginia is seeking an outstanding individual for a position in ORGANIC/BIORGANIC CHEMISTRY. This appointment is expected to be made at the assistant professor level (tenure-track), though exceptional senior applications will be considered. Candidates with a commitment to excellence in research and teaching are encouraged to submit a curriculum vitae containing a list of publications, a concise outline of research plans, and arrange to have three letters of recommendations sent to: Robert E. Lapworth, Chairman, Department of Chemistry, University of Virginia, McCorkim Road, Charlottesville, VA 22901. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PHARMACOLOGY—MOLECULAR PHARMACOLOGY

Applications are invited for tenure-track positions as the assistant or associate member level in the Program of Developmental Therapy and Clinical Research at the W. M. Keck Medical Center, University of California, San Francisco. Curruculum vitae of members of both basic and clinical research, and in particular, those with interests in clinical application. Additional areas of research emphasis include mechanisms of drug action, molecular structure and drug design, signal transduction and DNA repair. Please send a detailed curriculum vitae and a statement of career, research and teaching interest, and up to three publications to: Dr. Joseph M. T. Bertino, Program Co-Chairman of Developmental Therapy and Clinical Research, 2430 Divisadero Street, San Francisco, CA 94123. Application deadline: 15 January 1990.

Ph.D. POSTDOCTORAL POSITION in the Division of Endocrinology, Department of Pediatrics, Children’s Hospital of Pittsburgh. Project involves isolation, purification, and cloning of a hormone receptor(s). Experience/extension to training in molecular biology and biochemistry essential. Essential position offers opportunity to work with an active research group in the area of hormone receptor cloning. Send curriculum vitae and four references to: Dr. Jane M. Freier, University of Oregon, 5040 Arsenal Street, St. Louis, MO 63139. Application deadline: 30 November 1989.

PLANT CELL BIOLOGIST, ASSISTANT PROFESSOR

The Department of Biological Sciences at Rutgers University—Newark invites applications for a tenure-track assistant professor position in the area of development. The candidate should have a Ph.D. and postdoctoral experience. The research program should be in the area of development of the plant cell. Candidates are expected to become involved in the Department of Biological Sciences. The candidate should have a Ph.D. and postdoctoral experience. The research program should be in the area of development of the plant cell. Candidates are expected to become involved in the Department of Biological Sciences.

POSITIONS IN IMMUNOLOGY, MICROBIOLOGY

The Department of Microbiology at the Medical College of Ohio invites applications for postdoctoral positions. Applicants should submit curriculum vitae and three letters of recommendation. Positions open in Immunology and Microbiology. Please send a letter of interest and a curriculum vitae to: Dr. Edward T. Freier, M.D., Chairman, Department of Microbiology, Medical College of Ohio, 10,008, Toledo, OH 43609. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW (2 years), and RESEARCH TECHNICIAN (permanent). Positions available in a laboratory that is developing methods for physical mapping of bacterial and human genomes. Send curriculum vitae and a list of publications for positions available in the lab. Prefer experience in physical mapping of bacterial and human genomes. Send curriculum vitae and a list of publications for positions available in the lab. Prefer experience in physical mapping of bacterial and human genomes. Send curriculum vitae and a list of publications for positions available in the lab. Prefer experience in physical mapping of bacterial and human genomes. Send curriculum vitae and a list of publications for positions available in the lab. Prefer experience in physical mapping of bacterial and human genomes.
BASF Bioresearch Corporation

ANNOUNCING INITIAL STAFFING FOR NEW FACILITY

BASF Bioresearch Corporation is the newest Biomedical R&D facility backed by BASF, a 125-year-old company that has specialized in inventive technology and imaginative solutions from day one. Known the world over for our contributions to the chemistry, high-tech and entertainment industries, we’re out to make an equally impressive impact in the exciting area of biomedical research and development. If you’re ready to take on some of the greatest challenges of our time... cancer and diseases of the immune system... join us for a rewarding career in our results-proven environment. PhD-level scientists are now being sought for initial staffing of our state-of-the-art, Cambridge, MA biomedical R&D facility.

MOLECULAR BIOLOGISTS

Requires significant experience in DNA cloning and gene expression in eukaryotes and prokaryotes. Work will be concentrated on novel lymphokines, their receptors and oncogene regulation.

PROTEIN CHEMISTS

Utilizing your experience in the areas of protein purification, sequencing and amino acid analysis, you’ll be involved in a variety of projects dealing with lymphokines and antibodies.

CELL BIOLOGISTS (Immunology)

Positions require background in fields of in-vitro/in-vivo immunology with a focus on lymphokine research, antibody construction and/or autoimmune diseases.

CELL BIOLOGISTS (Oncology)

Must have experience in field of in-vitro/in-vivo oncology with a strong focus on tumor cell resistance, cell differentiation and/or metastatic properties of tumor cells.

BASF Bioresearch Corporation offers an attractive compensation package to qualified candidates. For further information, please write with curriculum vitae to: Pamela S. Zupfer, Human Resources Department, BASF Bioresearch Corporation, 195 Albany Street, Cambridge, MA 02139. An Equal Opportunity Employer.

The Spirit of Innovation™

BASF Bioresearch Corporation

APPLICATIONS MUST BE POSTED NO LATER THAN OCTOBER 31, 1989.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICAL, MARITAL STATUS, PHYSICAL HANDICAP, AGE, OR MEMBERSHIP OR NON-MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
RESEARCH & DEVELOPMENT
An Integrated Team at Baxter

Baxter Hyland Division’s Research & Development group is located at a multi-million dollar facility equipped with state-of-the-art technologies. Here, professionals who bring expertise in biology, immunology, biochemistry, chemical engineering and other vital life science areas, are using applied and basic research techniques to develop biological products for the treatment of human disease.

In addition to working on new products or new applications for existing products, these multi-disciplined teams are responsible for exploring the ways in which new products might be manufactured. They initiate pilot plant studies for integrating new product manufacturing processes with existing separation, filtration, and processing facilities.

We currently have openings in Cell Culture, Process Analysis and Product Formulation. Two new start-up operations in Molecular Biology and Immunology have also created several openings for scientists and lead scientists to join our team of professionals. Positions range from entry-level to managerial.

Our compensation plan reflects the strength and size of the worldwide Baxter Healthcare Corporation organization. To find out more, send your resume with salary history to: Baxter Hyland Division, Human Resources (CG), 4501 W. Colorado Blvd., Los Angeles, CA 90039, An Equal Opportunity Employer.

Hyland Division
Baxter

Research Your Future

Syntex, an international leader in the pharmaceutical and health care industries, has three openings for Research Scientists and one opening for a Postdoctoral Fellow to join our Palo Alto headquarters located on the San Francisco Peninsula.

Research Pharmacologist
Use your strong background in classical receptor theory i.e., knowledge of pharmacological analysis of potency, affinity and receptor reserve. This position requires considerable leadership ability in both basic research and drug discovery programs. You should have experience in a wide range of isolated tissue bioassays including assays routinely employed in the muscarinic, serotonergic and prostanoid receptor areas. Additional experience in the use of cell culture and radioligand binding would be an advantage. Requirements include a PhD in Pharmacology with 2 or more years of relevant postdoctoral experience.

Mechanistic Enzymologist
Devise novel approaches to identify antiviral chemotherapeutic agents and to study the mechanism of action of antiviral compounds. A PhD in Chemistry, Biochemistry or Mechanistic Enzymology, and 3 or more years of enzyme kinetic research experience are required.

Tumor Biologist
Develop in vivo tumor models to support basic and applied research in cell growth regulation, oncogenes and drug resistance. To qualify, you should have a PhD in Cell Biology, Molecular Biology, or Tumor Biology and 2 or more years of relevant postdoctoral experience.

Postdoctoral Fellow
Perform research in the area of lipid biochemistry with special reference to the role of lipids and lipid derived mediators in the regulation of phospholipases in human neutrophils and/or cultured eukaryotic cells. Requires a PhD in Biochemistry, Biology, Chemistry or equivalent with 0-2 years of experience.

Syntex offers outstanding research facilities and a competitive compensation/relocation package in a campus-like environment. For immediate consideration, please send your resume to: Syntex, Professional Staffing, Dept. K H/3R, 3401 Hillview Avenue, Palo Alto, CA 94304. Syntex is an equal opportunity employer.
POSTDOCTORAL FELLOW. The recently established Institute of Marine and Coastal Sciences of Rutgers University invites applications for a postdoctoral fellowship in marine science. Starting date: 1 January 1990. Preference will be given to applicants interested in benthic ecology, geochemistry, fluid dynamics, or larval biology. Letters of application should be sent to: Dr. F. Grasso, Institute of Marine and Coastal Sciences, Old Blake Hall, Cook College, Box 231, Rutgers University, New Brunswick, NJ 08903. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW. Applications are invited for an NIH-supported postdoctoral fellowship in research involving the polypeptide dependence of gastrin-testinal mucosal proliferation and differentiation. Experiments involving the cell biology of these processes are performed in both whole animals and cellular cultures. For representative publications see: American Journal of Physiology 256, G342 (1989); 256, G1049 (1989). Applications are due by 15 February 1990. There is no citizen restriction on this position. The position is available for 2 to 3 years. Send an application letter, curriculum vitae, and names of three references to: Dr. H. S. Penczek, Department of Biochemistry and Molecular Biology, SUNY Health Science Center, 766 Irving Avenue, Syracuse, NY 13210. Applications will continue to be accepted until position is filled. An Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study purine nucleoside phosphorylase and G-CSF retroviral-mediated gene transfer in vivo. Experience in molecular biology and/or cell biology desirable. Please submit curriculum vitae and names of three references to: Bill Osborne, Ph.D., Department of Pediatrics, RD-20, University of Washington School of Medicine, Seattle, WA 98195, or telephone: 206-543-6473.

POSTDOCTORAL POSITION available immediately in diabetes research. Emphasis on insulin action, receptor regulation, and insulin resistance. M.D. or Ph.D. with experience in molecular endocrinology preferred. Send curriculum vitae and three letters of reference to: Dr. George Fantus, Polypeptide Hormone Laboratory, 3640 University Street, Room 211, Montreal, Quebec H3A 2B2.

POSTDOCTORAL POSITION. University of California, San Diego, invites applications for positions in the Division of Biomedical Sciences Controlled Substances Program. Available immediately. Molecular biologist with background and/or interest in general genetics, development, immunology, and microbiology to isolate organisms and develop new applications for biodegradation of xenobiotic compounds using molecular and genetic techniques. Interdisciplinary teamwork with chemists and environmental engineers. Send curriculum vitae and request three references be sent to: Prof. Robert A. Mah, Department of Environmental Health, School of Public Health, UCLA, Los Angeles, CA 90024-1772.

POSTDOCTORAL POSITION—GAME CYTOBIOLOGY. A postdoctoral position is available immediately to study the fundamental cyobiology of mammalian (human, rodent, and ruminant) sperm and oocytes. A strong background in either gamete biology or cyobiology is preferred. Current projects in the laboratory focus on biochemical analysis of membranes to determine optimal cryopreservation protocols. Applicants should send curriculum vitae, a statement of research interests, and three letters of reference by 20 October 1989 to: Prof. John C. Critten, Department of Plant Science and Technology, Plantation Immunology, Methodist Hospital of Indiana, 1701 North Senate Boulevard, Dept. 6, Indianapolis, IN 46202. Methodist Hospital of Indiana is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION—BIOCHEMISTRY/MOLECULAR BIOLOGY. A position is available immediately to study the regulation of extracellular matrix proteins in pulmonary tissue. Join an established, interdisciplinary team of both in vivo and in vitro models for lung development and disease. For additional information, please contact: Dr. Carl Franzblau, Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study neural, hormonal, and metabolic and biophysical aspects of cardiovascular function in the range from the biochemical to the conscious, integrative level. Send résumé and the names of three references to: Steven L. Spiegel, Ph.D., Cardiology Division, Veterans Administration Hospital, Medical College of Ohio, Toledo, OH 43609-0008.

POSTDOCTORAL POSITION available immediately to study the molecular biology of P-450 expression in skin. Recent studies from this laboratory suggest that constitutive and inducible P-450 activities in skin are modulated as a function of differentiation. Applicants should have a background in molecular biology and submit curriculum vitae and names and addresses of the references to: Dr. John Reiners, Jr., University of Texas M.D. Anderson Cancer Center, Science Park Research Division, P.O. Box 489, Smithville, TX 78957. We are an Equal Opportunity/Affirmative Action Employer. UTMD Anderson Cancer Center is a smoke-free workplace.

POSTDOCTORAL POSITIONS COLUMBIA UNIVERSITY LABORATORIES

Positions available December 1989 in the laboratories of: (i) G. Gundersen—investigating the role of microtubule stabilization during cell morphogenesis and motility, and the molecular basis of contact inhibition; and (ii) J. Burack—studying the function of post-translational modifications of microtubules and molecular biology of microtubule-associated proteins. Send curriculum vitae and names of references to: Professors Gundersen or Professor Bulinski, Department of Anatomy and Cell Biology, Columbia University College of Physicians and Surgeons, New York, NY 10032. We take Affirmative Action toward Equal Opportunity.

POSITIOINS OPEN

PLANT STRUCTURAL AND CELLULAR BIOLOGIST, ASSISTANT/ASSOCIATE OR FULL PROFESSOR. A tenure-track position to establish a research program in structural and subcellular aspects of plant growth, development, and differentiation. The research approach should involve modern methods of microscopy and cell biology as applied to plants. In addition, in developing the program a prominent research group, the incumbent will be expected to teach a course that provides training in modern research approaches in plant anatomy and cell biology. Application deadline is 15 December 1989 or until filled. Interested individuals should submit résumé, transcript, statement of research objectives, and three letters of references to: Dr. Brian Larkin, Head, Department of Plant Sciences, University of Arizona, Tucson, AZ 85721. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately in diabetes research. Emphasis on insulin action, receptor regulation, and insulin resistance. M.D. or Ph.D. with experience in molecular endocrinology preferred. Send curriculum vitae and three letters of reference to: Prof. George Fantus, Polypeptide Hormone Laboratory, 3640 University Street, Room 211, Montreal, Quebec H3A 2B2.

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POSTDOCTORAL POSITION—BIOCHEMISTRY/MOLECULAR BIOLOGY. A position is available immediately to study the regulation of extracellular matrix proteins in pulmonary tissue. Join an established, interdisciplinary team of both in vivo and in vitro models for lung development and disease. For additional information, please contact: Dr. Carl Franzblau, Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. Affirmative Action/Equal Employment Opportunity Employer.

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BIOTECHNOLOGY

DEVELOPMENTAL CLINICAL CHEMIST–Ph.D.: Experience in hospital diagnostic product design.

IMMUNODIAGNOSTIC DEVELOPMENT MANAGERS–Ph.D.: 5+ years immunodiagnostic formulation from bench to manufacturing large scale.

PROBE TECHNOLOGISTS: PCR methodologies.

PROTEIN CHEMISTS: Experienced in developing immunodiagnostics–Ph.D./M.S., structure/function studies–Ph.D., conjugation of enzymes—all levels.

MAMMALIAN CELL CULTURE SPECIALISTS: Bioreactors/hollow fiber system. Fermentation for large scale production of heterologous genes in E. Coli Ph.D./M.S. Monoclonal antibody production B.S./M.S.

The above is only a partial listing of our current opportunities. B.S., M.S., Ph.D., Post Doctoral fellows are encouraged to apply.

Contact N. Kanoff in confidence

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Cambridge NeuroScience Research is a leading research and development company focusing on Neurobiology and its applications. We have a newly expanded state-of-the-art lab located in Cambridge, Massachusetts, close to M.I.T. and Harvard University.

Staff Scientist–Neuropharmacology

We are looking for an outstanding researcher to contribute to our exciting strategies for neuropharmaceutical development.

The candidate should have a Ph.D. and at least 3 years of post-doctoral experience in the pharmacology/biochemistry of nervous system receptors, second messengers and functional assay systems. Experience in the pharmaceutical industry and drug development is highly desirable. The successful applicant will be able to carry out innovative research programs interacting with synthetic chemists, molecular biologists, electrophysiologists and a pharmaceutical development team.

Cambridge NeuroScience Research offers a stimulating research environment with competitive salaries and excellent benefits. Applicants for the above position should send their curriculum vitae and the names of three references to: Cambridge NeuroScience Research, Human Resources Manager, One Kendall Square, Building 700, Cambridge, MA 02139, U.S.A.

The Benefit of Exceptional Growth

Rapid growth at Lifecodes, a division of Quantum Chemical Corporation, has created a number of opportunities for scientists with the talent and the vision to employ innovative technologies toward the development of the next break-throughs in genetic testing.

Molecular Biologist

A recent PhD in molecular biology or MS plus 3-5 years’ industrial experience with DNA-based laboratory procedures. Transfer, scale-up DNA based molecular biology products for identity and diagnostics.

Research Associates

BS/MS in biological sciences or related field required. Industrial or clinical experience in DNA techniques preferred (cloning, DNA transfer, hybridization). Selected candidates will assist in the isolation and genetic characterization of probes used for identity tests and participate in database development. Will also participate in the final development of DNA-based laboratory procedures and set up of new DNA-PRINT® Lab.

Cancer Technologists

Will perform molecular genetics tests. Requires BS/MS in a biological science and relevant lab experience.

Positions are based at our headquarters in prestigious Westchester County less than one hour north of New York City. Lifecodes offers competitive salaries and excellent benefits including educational assistance, complete medical/dental, 401K savings, pension and stock bonus plan. For immediate consideration, please forward your resume in strict confidence to: Director of Human Resources, Lifecodes Corporation, Dept. S–1089, Saw Mill River Road, Valhalla, NY 10595. An equal opportunity employer m/f.
The University of Minnesota
Senior Faculty and Institute Fellow
In Large Scale Computing

The University of Minnesota invites applications and nominations to fill several senior faculty positions in large scale computing. Depending on the qualifications of the candidates, these tenured faculty positions will be in one or more departments at the University. The persons appointed will, in addition to having tenure appointments, become Fellows of the Minnesota Supercomputer Institute, which is a research program at the University.

A successful candidate must hold a Ph.D., have at least two years experience in a relevant setting, and have demonstrated outstanding research accomplishments. Depending on the qualifications of the candidates, these tenured faculty positions will be in one or more departments at the University. The persons appointed will, in addition to having tenure appointments, become Fellows of the Minnesota Supercomputer Institute, which is a research program at the University.

Faculty rank and remuneration are dependent upon experience, qualifications, and accomplishments. Deadline for applications is January 15, 1990. Inquiries, nominations, and applications should be directed to:

Professor M.T. Devla
Search Committee Chair
Minnesota Supercomputer Institute
1200 Washington Avenue South
Minneapolis, MN 55415

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.
DEPARTMENT OF HEALTH AND HUMAN SERVICES
U.S. PUBLIC HEALTH SERVICE
Alcohol, Drug Abuse, and Mental Health Administration
National Institute of Mental Health
Chief, Neurosciences Research Branch

The Division of Basic Sciences has an immediate opening for a Supervisory Interdisciplinary Scientist to serve as Chief of the Neurosciences Research Branch (NRB). The NRB provides a broad range of support for research and research training in basic brain research, including research on humans, vertebrate and invertebrate animals, and isolated biological systems. Relevant approaches extend from studies at the molecular level through those done at the level of the intact organism. The Branch Chief plans, develops, coordinates and administers this broad, national program of research. In carrying out these responsibilities the Branch Chief represents the Institute's interests in the neurosciences of mental health at all levels: Professional associations, universities, private foundations, Federal and state programs, and within the Alcohol, Drug Abuse, and Mental Health Administration. Since the scope of the research program relies heavily upon a growing number of scientific disciplines, the Branch Chief must demonstrate experience and a high degree of competence in the administration of multidisciplinary research programs and possess the ability to coordinate across diverse disciplines. The Branch has an annual budget of approximately $82,000,000 and a staff of 9 people.

Applicants must possess a M.D. or Ph.D. degree, or equivalent training in one of the following disciplines: Pharmacologist, Health Scientist Administrator, or Medical Officer, as well as training related to neuroscience and must have extensive experience in research administration as well as direct research experience in the mental health field. Women and minorities are encouraged to apply. The position will be filled through the Civil Service or Commissioned Corps of the U.S. Public Health Service. The grade of the position is a GM-15, with a salary range from $57,158.00 to $75,500 per annum. Medical Officers may be eligible for an additional comparability allowance (PCA) of $8,000 to $20,000 per annum. Benefits include a retirement plan, health and life insurance, sick and annual leave. Relocation expenses may be paid. Duty station is Rockville, MD. United States citizenship is required.

Any applicant not currently employed in the Federal Government will be required to obtain an eligible notice of rating.

Submit applications for Federal Employment (SF-171) and curriculum vitae to Ms. Turner, Division of Personnel Management, Room 15C-12, 5600 Fishers Lane, Rockville, MD 20857. Applications must be postmarked no later than November 1, 1989.

ADAMHA is an Equal Opportunity Employer.

Search Announced
Associate Provost and Associate Director for Academic Affairs
Carter Center of Emory University

The Carter Center of Emory University, an international, interdisciplinary, non-partisan institute combining study and analysis with the practical applications of scholarship, focuses its program activity on such fundamental issues as conflict resolution, human rights, and governance within specific world regions (Africa, Latin America, the Middle East, the Soviet Union and the United States). The Center is a division of Emory University. Its core is distinguished fellows and research associates who collaborate with another and with President Jimmy Carter.

The position of Associate Provost and Associate Director for Academic Affairs is a newly established senior position at the Center, a dual appointment between the Carter Center and the University. The incumbent will provide academic leadership within the Center, will coordinate Center with University programs, and will contribute to the University's growing emphasis on international programs.

Candidates should have an earned doctorate, a distinguished scholarly record appropriate to a senior faculty rank at Emory University, and significant administrative experience within a university or other non-profit setting.

Nominations and applications should be sent to the Carter Center Search Committee, Office of the Provost, Emory University, Atlanta, Georgia 30322. Letters of application will be held in strict confidence and should include a statement of interest, a curriculum vitae, and a list of three referees. The Committee will begin reviewing applications on November 1, 1989, and continue until the position is filled. References will be contact directly by the Committee after November 1, upon notification of applicants.

Emory University is an equal opportunity employer.

PROTEIN BIOCHEMIST

EniChem Americas, Inc., a division of an Italian-based major international chemical company has an immediate opening in the Plant Biotechnology Lab at its Research Center near Princeton, New Jersey.

This opening offers a unique opportunity to a Protein Biochemist to join a group of highly motivated scientists developing programs on crop improvement through biotechnology. The candidates we seek should have strong biochemistry background coupled with expertise in studies of protein structure/function, protein turnover, and post-translational modifications. There will be opportunities to apply this expertise to both recombinant and non-recombinant proteins. A Ph.D. and at least 2 years of relevant experience are required. Some industrial experience and familiarity with plant research are desirable but not essential.

Successful candidates will enjoy the benefits of joining a new multi-disciplinary research team in a well-equipped, custom-designed facility.

Please send your Curriculum Vitae, statement of research interests and names of three references to:

Personnel Coordinator

EniChem Americas, Inc.
2000 Princeton Park Corporate Center
Monmouth Junction, NJ 08852

DIRECTOR

The Exploratorium, a museum dedicated to the public understanding of science, art and human perception is seeking a new director. Located in San Francisco, The Exploratorium is internationally acclaimed as a pioneer in the role of museums as active teaching and learning centers based on an interactive approach.

Candidates should be well grounded in science, art, humanities or education and should have significant leadership experience in a creative, research or educational institution. Management and fund-raising abilities are critical.

Please send all nominations or resumes to Box 161, SCIENCE. The Exploratorium is an affirmative action employer.
POSTDOCTORAL RESEARCH ASSOCIATE, with an M.D. or a Ph.D. in a biological science, to study neurochemistry of molluscan deinobacteria. Demonstrated expertise in DNA sequencing and Deinobacterial molecular genetics required. Minimum salary, $19,600 per year (40 hours per week). Please send curriculum vitae and three letters of recommendation to: Dr. Robert Mercer, Box 3177, Duke University Medical Center, Durham, NC 27710. An Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: The Liposome Company, a pharmaceutical company specializing in lipid-based drug delivery systems, is seeking a recent Ph.D. in immunology with background knowledge in lipid biochemistry to join a small team involved in the design of liposome-based vaccines. Send curriculum vitae and names of three references to Dr. James T. Parn, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION: Five positions available this fall for a multidisciplinary approach to study peptides and proteins for biological and clinical applications. Candidates should have experience in one of the following areas: (i) peptide synthesis, (ii) immunology, (iii) cell biology, (iv) HTLV, (v) blood coagulation, and (vi) growth factors. Send curriculum vitae and names of two references to: Dr. James T. Parn, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE: U.S. DEPARTMENT OF AGRICULTURE, AGRICULTURAL RESEARCH SERVICE (ARS) POSTDOCTORAL RESEARCH ASSOCIATE position immediately available for study between molecular and physiological mechanisms of metabolism in developing maize kernels. Positions will be located at Eastern Regional Research Center, Beltsville, Maryland, and St. Louis, Missouri. Salary and relocation expenses will be provided. Send curriculum vitae and three references to: Dr. Robert W. McElroy, ARS, 9200 Medical Center Road, Beltsville, MD 20705-3136. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Duke University and EPA cooperative study will investigate new methods for measuring repair of pollutant-induced injury to the lung, with the eventual goal of developing models which relate acute lung injury to exposure to pollutants. The successful candidate should send curriculum vitae to: Dr. Robert Hatch, Chief, Biochemical Toxicology Section, MD-82, U.S. EPA, Research Triangle Park, NC 27711. An Equal Opportunity Employer.

POSTDOCTORAL TRAINING POSITIONS IN BEHAVIORAL AND COGNITIVE NEUROSCIENCE: Postdoctoral training positions in behavioral and cognitive neuroscience. Areas of research include visual perception and attention, cortical speech and language processing, motor systems and movement disorders, mechanisms of long-term potentiation and depression, modeling of hippocampal/cortical circuitry, animal models of neurodegenerative diseases, and histological techniques include human, primate, and cortical slice electrophysiology, including topographic mapping, current source density and generator analysis, dyeoxyglucose functional mapping; anatomical tracing and histochemical techniques. Close interactions with molecular and cellular neuroscience groups and with research programs in human development and neurological disorders. Faculty includes H. Vaughan, J. Arezzo, L. Brown, D. Javitt, D. Kurtzberg, S. Moshe, W. Ritter, C. Schroeder, G. Simpson, M. Steinberg-Kreider, R. Riady. Inquiries or applications, including curriculum vitae, statement of research interests, and three references to: Dr. Herbert G. Vaughan, Neurosciences Institute, 1410 Pelham Parkway South, Bronx, NY 10461. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL IN COMPLEX GENOMES: The Department of Genetics at Washington University offers unique opportunities for training and research in the analysis of complex genomes. Targets for analysis include the genomes of humans, the mouse, Drosophila, the nematode, yeast, and bacteria. Analytical methods include genetic mapping with restriction fragment length polymorphisms, physical mapping with cosmids and yeast artificial chromosomes, long-range restriction mapping, large-scale DNA sequencing, and data analysis. Principal investigators include Maynard Olson, Helen Donis-Keller, Robert Waterston, David Schnitzler, and Kay Hart. Send resume to: Daniel L. Hart, Box 8232, Department of Genetics, Washington University School of Medicine, St. Louis, MO 63110-1095.

PREDOCTORAL TRAINING available immediately for study between molecular and physiological mechanisms of metabolism in developing maize kernels. Positions will be located at Eastern Regional Research Center, Beltsville, Maryland, and St. Louis, Missouri. Salary and relocation expenses will be provided. Send curriculum vitae and three references to: Dr. Robert W. McElroy, ARS, 9200 Medical Center Road, Beltsville, MD 20705-3136. An Equal Opportunity/Affirmative Action Employer.
RESEARCH SCIENTIST AND ASSOCIATE
MOLECULAR AND CELLULAR BIOLOGY

Amgen, a recognized leader in the biotechnology industry, has immediate opportunities for a Research Scientist and a Research Associate to participate in the characterization, cloning and expression of hematopoietic growth factors.

Qualified candidates for the Research Scientist position must have a Ph.D. and a minimum of 2 years' postdoctoral experience in the expression of recombinant protein in mammalian and prokaryotic systems. Research Associate candidates must have a BS or MS and a minimum of one year of experience in molecular biology and tissue culture. Industry experience is highly desirable.

Amgen offers an excellent compensation and benefits package as well as a stimulating and challenging research environment.

Qualified applicants should send a C.V. or resume, including references, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #333A
Amgen Center
Thousand Oaks, CA
91320-1789

Equal Opportunity Employer

VICE PRESIDENT FOR ACADEMIC AFFAIRS AND DEAN, SCHOOL OF MEDICINE

Medical College of Ohio

The Medical College of Ohio, a free-standing institution located in suburban Toledo, Ohio, invites nominations and applications for the combined position of Vice President for Academic Affairs and Dean of the School of Medicine.

As Vice President for Academic Affairs, the incumbent is a member of the College's administrative core, responsible to the President for education and research in the School of Medicine, Graduate School and the Schools of Nursing and Allied Health. These responsibilities include interactions with affiliated teaching hospitals and other organizations, planning for capital needs, and working interactively with other administrative offices to implement the missions of the College.

As Dean, the incumbent serves as the chief executive of the School of Medicine, and provides academic and administrative leadership for a faculty of 253 full-time, 40 part-time and 750 volunteer members. The School enrolls approximately 550 students in curricula leading to the M.D. or the joint M.D.-Ph.D. Degrees. The Dean represents the School of Medicine to the Board of Trustees, President, and to external audiences in the public and private sectors. Other responsibilities include short- and long-range planning and the identification and attraction of financial resources for the School.

Applications with curriculum vitae and nominations may be submitted for confidential review by the Search Committee to:

Chairman, Search Committee for Vice President for Academic Affairs and Dean, School of Medicine
Office of the President
The Medical College of Ohio
P.O. Box 10008
Toledo, Ohio 43699-0008

Review of applications and nominations will begin immediately and will continue until an appointment is made.

In employment, as in education, The Medical College of Ohio is committed to affirmative action and equal opportunity.

NATIONAL SCIENCE FOUNDATION

NSF's Divisions of Cellular and Molecular Biosciences are seeking qualified applicants for Assistant Program Director, Associate Program Director and Program Director positions under the provisions of NSF's Visiting Scientist Program. Since responsibilities include research proposal evaluation, budget development and scientific planning, broad knowledge and specific research accomplishment are key qualifications. The positions are excepted from the competitive civil service and are filled on a one- or two-year rotational basis. The positions become available periodically and will be filled beginning in the summer or fall, 1990. The salary ranges and qualifications are as follows:

Assistant Program Director — $28,852–$53,460; Ph.D. or equivalent experience plus 2 or more years of research experience beyond the Ph.D.

Associate Program Director — $41,121–$64,778; Ph.D. or equivalent experience plus 4 or more years of research experience beyond the Ph.D.

Program Director — $48,592–$75,500; Ph.D. or equivalent experience plus 6 or more years of research experience beyond the Ph.D.

In the Division of Cellular Biosciences, there are openings in: (1) Cell Biology; (2) Developmental Biology; (3) Cellular Biochemistry; and (4) Physiological Processes.

In the Division of Molecular Biosciences, there are openings in: (1) Biochemistry; (2) Biophysics; and (3) Genetics.

Applicants should send resumes or SF-171, Application for Federal Employment, to: National Science Foundation, Personnel Administration Branch, Room 206, 1800 G St. NW., Washington, DC 20550. Attention: Catherine Hand. For further information call Dr. Bruce Umminger, Cellular Biosciences (202) 357-7905 or Dr. James H. Brown, Molecular Biosciences (202) 357-9400. Hearing impaired individuals should call (202) 357-7492.

NSF is an Equal Opportunity Employer.
RESEARCH ASSISTANT

RESEARCH ASSOCIATE

RESEARCH ENTOOMOLOGIST, (RESEARCH ASSOCIATE), GS-1411-11/2, USDA, Agricultural Research Service, Southern Field Crop Plant Pest Management Laboratory, Stoneville, Mississippi. Incumbent will participate in the development of population ecology information of the reproductive behavior of Helicoverpa spp. and research potential for developing technology to monitor gene flow in this pest complex. Need knowledge of: insect ecology, life history strategies and reproductive behavior; population and/or quantitative genetics; and statistical procedures and use of micro- and mainframe computers for data processing and analysis. Must have received a Ph.D. degree within the last 3 years. Salary: $28,852 to $44,957 per year, based on qualifications and experience. Appointment will be temporary, not to exceed 2 years. Usual federal government benefits apply. For further information: Dr. Jane Hayes, 601-686-2311. Closing Date: 6/30/90.

POSITIONS OPEN

Jewish Hospital and Washington University School of Medicine have an opening for a RESEARCH INSTRUCTOR/ASSISTANT PROFESSOR position in the Division of Nephrology/Internal Medicine. The applicant should be M.D. and have at least 2 years of training in nephrology. Further training and research interest in cell biology related to hormone signal transduction and renal biochemistry is preferred. Experience highly desirable. Position entails commitment to basic research with some teaching and clinical responsibilities. Salary: $35,000. Contact: Dr. K. A. Hruska, Chief, Renal Division, Jewish Hospital, 216 South Kingshighway Blvd., St. Louis, MO 63110. Closing date: 31 October 1989.

RESEARCH SCIENTIST—Opening exists for a Ph.D. with minimum of 2 years of laboratory experience in the development of lyophilized products. Experience in designing formulations for optimal lyophilization of antibody-based radiochemicals required as well as experience with novel analytical methodologies for characterizing product behavior during lyophilization. Minimum starting salary: $33,000 per year. State-of-the-art research and development facilities. Send your curriculum vitae with a list of publications to: The Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123. Responses can be sent to Order Number #4272932. We are an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST to carry out theoretical research on the electrostatic properties of proteins and nucleic acids. We are seeking a scientist with demonstrated expertise in this area who would be expected to publish in a timely fashion. The candidate should also have experience in the development of general computer software packages. Salary: $42,000. Send curriculum vitae including names of four references to: Professor Barry Honig, Department of Biochemistry and Molecular Biophysics, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

SENIOR FACULTY POSITIONS

COLUMBIA UNIVERSITY

The Department of Biological Sciences, Columbia University, invites applications for senior faculty (full professor) positions. Preference will be given to leading investigators in the areas of structural biochemistry and vertebrate developmental biology. The successful candidate will play a pivotal role in the current expansion of the Sherman Fairchild Center for the Life Sciences. Send inquiries by 1 January 1990 to: Jane Hayes, Department of Biological Sciences, Field Crop Insect Management Laboratory, USDA, ARS, P.O. Box 346, Stoneville, MS 38776 by close of business 31 October 1989. USDA is an Affirmative Action/Equal Employment Opportunity Employer.

STAFF SCIENTISTS

Stratagene has three openings for individuals with a Ph.D. or equivalent degree in biology or chemistry. PEPTIDE CHEMISTRY. Applicant will be expected to set up and staff a peptide synthesis facility. Some experience with financial planning and budgets would be helpful. FAMILIARITY with micropeptides and/or cytotoxins would be advantageous.

PROTEIN CHEMISTRY. Applicant will be expected to set up a research group involving gene cloning, expression, and mutagenesis and apply these methodologies to the study of protein interactions from a structure/function perspective.

IMMUNOLOGIST: Applicant should have experience generating anti-idiotypic antibodies. Knowledge and practical experience with general molecular biology techniques would be advantageous. Stratagene is in a beautiful coastal location minutes from several major research centers. All positions offer competitive salaries and excellent benefits. All qualified candidates forward resumes to: Stratagene, Attention: Human Resources, 11099 North Torrey Pines Road, La Jolla, CA 92037.

SUMMER FACULTY POSITIONS

IN SLSTP

A NASA PROJECT

Four Project Counselor positions are open in the 1990 Space Life Sciences Training Program (SLSTP) to be held at the Kennedy Space Center, Florida. Project Counselors will be involved in the development of the 7-week program (starting mid-June 1990) activities for undergraduate college students. An applicant must have a minimum of M.S. degree, preferably Ph.D. degree and some experience of teaching and research in life sciences and related fields. If interested, please send a letter of application, complete curriculum vitae, and three letters of recommendation before 31 December 1989 to:

Program Director
Florida A&M University
College of Pharmacy
106 Honor House
Tallahassee, FL 32307
Telephone: 904-599-3636

### POSTDOCTORAL POSITION TO STUDY REGULATION OF CELL GROWTH

Postdoctoral positions available to study the biochemistry and molecular biology of growth and aging of human epidermis and the pathophysiology of psoriasis. Specific areas of interest include: 1) signal transduction, 2) transcriptional regulation, 3) growth factors and cytokines, 4) retinoic acid receptors and 5) immunoregulation of epidermal growth. Positions provide excellent working and living conditions in Ann Arbor and the opportunity to conduct research in a progressive, growing University Medical Center. Address applications including fields of interest and curriculum vitae to: John J. Voorhees, M.D., Professor and Chairman, Department of Dermatology, 1910 Taubman Center, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0314. The University of Michigan is a nondiscriminatory/affirmative action employer.

### FELLOWSHIP IN NEUROCHEMISTRY

**National Institutes of Health**

The Laboratory of Neurosciences, National Institute on Aging, invites applications for the position of Staff Fellow/Medical Staff Fellow to study the postmortem human brain in relation to age, Alzheimer’s disease and Down Syndrome, coordinated with ongoing clinical program. Animal models of disease (e.g., murine trisomy 16) and actions of centrally acting drugs will be examined. Applications are invited from individuals having a Ph.D. and/or M.D., plus experience in neurochemistry, molecular approaches to gene expression (including in situ hybridization) or neuroanatomy (including quantitative autoradiography). Salary is commensurate with qualifications. Appointments vary in duration from 2 to 7 years and are tenure-track. Interested applicants should send Curriculum Vitae plus two letters of recommendation to:

Stanley I. Rapoport, M.D.
Chief, Laboratory of Neurosciences
National Institute on Aging, NIH
Bldg. 10, Room 6C-103
9000 Rockville Pike
Bethesda, MD 20892

NIH is an equal opportunity employer.
POSITIONS OPEN

TECHNOLOGY AND INTERNATIONAL RELATIONS

George Washington University's Center for International Science and Technology Policy has an opening for an individual whose teaching and research interests focus on the interaction between technology and international affairs. The appointment will most likely be made at the assistant professor level, although particularly qualified candidates will also be considered. Appointment is on a tenure-track basis. A Ph.D. in an appropriate social science discipline, particularly economics or political science, as well as experience in policy-related teaching and externally funded research are desirable. The position will begin in the Fall 1990 semester. The deadline for applications is 15 December 1989. Applications, curriculum vitae, and three letters of recommendation to:

John M. Logsdon, Director
Center for International Science and Technology Policy
1200 H Street, N.W., Suite 714
George Washington University
Washington, D.C. 20052

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AWARDS

THE ROSENSTEIN SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE OF THE UNIVERSITY OF MIAMI SEeks NON-FACULTY POST FOR THE ROSENSTEIN AWARD

The Rosenstein Award is presented annually to recognize outstanding achievement and distinction in oceanographic science. This year's award will be presented for excellence in the field of Marine and Atmospheric Chemistry. Nominations, including curriculum vitae and the names of three referees, should be sent by 31 October 1989 to:

Dr. Joseph M. Prospero, Chairman
Rosenstein Award Committee
Division of Marine and Atmospheric Chemistry
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149-1098

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Immunology/Genetics: A position is available to study gene regulation of the C-myc oncogene during development using somatic cell and molecular genetic approaches. Applicants must be a U.S. citizen or permanent resident. Please send curriculum vitae and letters of reference to: Dr. Paula Kavathas, Department of Laboratory Medicine, Yale University, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510.

POSTDOCTORAL FELLOWSHIP: Molecular immunology. Studies focus on: (i) transcriptional regulation of protease expression during mast cell differentiation, (ii) epitope mapping, and (iii) site-directed mutagenesis. This research is a component of a comprehensive training program in molecular and cellular biology at the Medical College. Send curriculum vitae and three references to: Lawrence B. Schwartz, M.D., Ph.D., Medical College of Virginia, Box 263, Richmond, VA 23298. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN FERTILIZATION AND EARLY DEVELOPMENT, UNIVERSITY OF CALIFORNIA, STANFORD. Davis A postdoctoral fellowship is available beginning anytime between February and August 1990 in an NIH-funded training program. Research areas: cell biology of gametes and fertilization (W. Clark, D. Katz, J. Hedrick, S. Meizel, J. Overstreet); cell biology and morphology of early development (G. Amati, M. Goldstein, S. B. Needleman, B. King, L. Wiley). Candidates must be citizens, or noncitizens, or permanent residents of the U.S. and must have a doctorate. Send curriculum vitae and a statement of research interests to: Dr. Stanley Meisel, Director, Fertilization and Early Development Training Grant, Department of Human Anatomy, School of Medicine, University of California, Davis, CA 95616. The University of California is an Equal Opportunity/Affirmative Action Institution.

UCLA-INTERCAMPUS MEDICAL GENETICS TRAINING PROGRAM

The UCLA Inter campus postdoctoral research training program in Medical Genetics utilizes the research and clinical resources of its affiliated campuses and teaching hospitals. This program is open to academically oriented applicants with the M.D., Ph.D., D.D.S. or equivalent degrees. A wide variety of research training opportunities in molecular, biochemical, immuno-, cancer, cyto-, somatic cell, population and clinical genetics are available. The program also meets all the requirements of the American Board of Medical Genetics. Clinical genetics fellowships are available at each of the affiliated hospitals. Application forms are available from: David Rimoin, M.D., Ph.D., Department of Pediatrics, Cedars-Sinai Medical Center, 8770 Beverly Boulevard, Los Angeles, CA 90048.

MEETINGS

MATHETMATICAL APPROACHES TO DNA SANTA FE, NEW MEXICO, 24-28 JANUARY 1990

Topics: DNA polymorphism—Dickerson; Frank-Kamenetski; Tinoco. Helical repeat—Bina; Boles; Krasinski; Stein; Travers; Vogelydaki; White. DNA supercoiling, structure and function—Liu; Olson; Wang; Wells. Higher-order DNA organization—Cox; England; Roeder. Loci, inversions—Bo- gle; Kauffman; Millam. DNA geometry and flexibility—Bauer; Crothers; White; Trifonov; Zimm; Legrain. Genetic—Feldman; Langridge. Topology of recombination and transposition—Benjamino; Boocock; Cozzarelli; Mimn; Sumners. Sequencing, mapping and recombination—Bell, Gall; Cuenen; Lander; Marr, Myers; Pear, Robert. Waterston. Student travel funds available. Apply: Dr. S. J. Spangler, Program in Mathematics and Molecular Biology, 214A Stanley Hall, University of California, Berkeley, CA 94720.

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY, Columbia University. Emphasis is placed on the analysis of the cellular and molecular basis of neural development, behavior and plasticity. Training faculty include: Richard Axel, Craig Bailey, David B. Colman, Jane Dodd, Michael Gershon, Claude Ghez, Daniel Goldberg, James Goldman, Lloyd Greene, Mary E. Hatten, Robert Hawkins, Thomas Jessell, Eric Kandel, John Koester, Irving Kirschner, Ronald Liddell, Carol Mason, John Martin, Frederick R. Maxfield, John E. Pintar, Steve Rayport, Lorna Role, Taebo Rothman, Samuel Schachter, James Schwartz, Eli Shapiro, Michael Shelanski, Steven Siegelbaum, Gary Struhl, Ekhatar Trenkner, Klaudiusz Weiss, and Robert Wong. Applicants for this NIMH-sponsored program must have a M.D., Ph.D., or D.V.M. degree and be either U.S. citizens or have permanent residency status. Send curriculum vitae, a letter describing research interests, and three letters of reference to: Administration Committee, Postdoctoral Training Program, Center for Neurobiology and Behavior, 722 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

MARKETPLACE

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Circle No. 43 on Readers’ Service Card
On November 14, Millipore is sponsoring a satellite teleseminar on "Bioresearch Tools for the 1990's." The three-hour special will be viewed at a network of companies, universities and other sites in the United States and Canada. It features top scientists discussing emerging technologies and applications that will play a major role in bio research over the next decade. In addition, valuable information will be provided in six poster presentations.

Program Agenda:
- **Bioresearch Tools for the 1990's**
  - Overview of New Technology
    - Jack Johansen, Millipore
- **Human Genome Instrumentation**
  - Charles R. Cantor,
    Lawrence Berkeley Laboratory
- **Capillary Electrophoresis**
  - James Jorgenson,
    University of North Carolina
- **Covalent Protein Sequencing**
  - Darryl Pappin,
    MilliGen/Biosearch Division of Millipore
- **2-D Electrophoresis**
  - Calvin McLaughlin,
    University of California - Irvine
- **Protein Characterization by HPLC**
  - M. Patricia Strickler,
    Waters Chromatography Division of Millipore

Poster presentations include the following topics: multiplex DNA sequencing, nucleic acid blotting, purification of proteins and nucleic acids by HPLC, solid phase peptide synthesis, and preparative protein separations with membrane chromatography cartridges.

To obtain the latest list of viewing sites and a detailed agenda, call the Millipore teleseminar hot line at 800-766-6767. You can also call our 800 number if you would like to sponsor a downlink site at your facility.

MILLIPORE

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