POSITIONS OPEN
BOSTON UNIVERSITY
BIOLOGY
As part of a program of continuing faculty and facility development in the natural sciences, Boston University seeks applicants for three tenure-track positions in biology at the ASSISTANT PROFESSOR level. Two years of postdoctoral experience are required. Successful candidates are expected to develop an active, funded research program, supervise graduate students, and to teach at the undergraduate and graduate levels. Competitive start-up funds are available. Positions to be filled for September 1988.

COMPARATIVE PHYSIOLOGY. Candidates are sought whose research interests include an integrative systems approach using modern methods in an area of study that complements existing faculty in neuroendocrinology, Comparative reproductive endocrinology, cellular, behavioral, and physiological ecology. Undergraduate teaching in general or systems physiology plus upper division course in specialization required.

MOLECULAR CELLO BIOLOGY. Candidates are sought whose research interests include molecular aspects of cell development, regulation and death, and/or membrane structure and function. The successful applicant will be expected to complement existing faculty in cell development, cell-cell recognition, membrane traffic, receptor signaling, and cell motility at the molecular level. Undergraduate teaching in Cell Biology plus upper division course in specialization expected.

EVOLUTIONARY DEVELOPMENT. Candidates are sought whose research interests are in organismic evolution using molecular, biochemical, and/or cytogenetic approaches. The successful applicant will be expected to complement existing faculty in the areas of behavioral ecology, population biology, biochemical ecology, and physiological ecology. Undergraduate teaching at introductory level plus upper division course in evolutionary biology expected.

Send curriculum vitae, a summary of research interests, and names of three references to John King, Chairman, Search Committee on Cell and Molecular Biology, Boston University, Boston, MA 02215. Deadline for completion of the search is November 1, 1987.

Boston University's policies provide for Equal Opportunity and Affirmative Action in Employment, and admission to all programs of the university.

ASSISTANT PROFESSOR. Tenure-track, starting 1 September 1988. PLANT MOLECULAR BIOLOGICAL GIST to teach courses in plant tissue culture, plant physiology, and course in specialty in undergraduate biotechnology program. Opportunity for research. Resume and three letters of reference by 15 December 1987 to: Tom Frederick, Head, Biology Department, Rochester Institute of Technology, I Lomb Memori- al Drive, Rochester, NY 14623. AA/EOE

ASSISTANT PROFESSOR PHYSIOLOGY
The Department of Zoology invites applications for a full-time, tenure-track position for teaching and research involving undergraduate and graduate students. Applicants must have a Ph.D., postdoctoral experience preferred, and potential to develop an independent extramurally funded research program in areas of comparative, cellular, or endocrine physiology. Outstanding candidates in other areas of physiology will be considered.

Application deadline: 25 November 1987, or until position is filled. Submit curriculum vitae with transcripts, statement of research and teaching interests, and letters from three references to: Dr. C. F. Bailey, Chair, Search Committee, Zoology Department, SE 632, University of Arkansas, Fayetteville, AR 72701

ASSISTANT PROFESSORSHIP: HARVARD UNIVERSITY
Applications are invited for assistant professorships in any field of chemistry, including organic, organometallic, physical, structural, theoretical, biological, and solid state. Application should have had two or three letters of recommendation sent independently, and should include curriculum vitae and a statement of research interests. Harvard University is an Affirmative Action/Equal Opportunity Employer: Women and minority group members are welcome. Applications and support- ing material should be sent no later than 30 November 1987 to: Lea Goldstein, Office of the Dean, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.

POSITIONS OPEN
ASSISTANT PROFESSOR OF GENETICS
MAQUETTE UNIVERSITY
GENETICIST
The Department of Biology at Marquette University invites applications for a tenure-track position at the level of assistant professor beginning August 1988. The successful candidate will have an extensive research experience and must be able to attract extramural support for an independent research program in genetics. Teaching responsibilities include a lecture course in genetics laboratory course annually and a graduate special- cy course in alternate years. Application deadline is 1 January.

In addition to curriculum vitae, names, and addresses of three references, and a one-page statement of current research interests to: Dr. Peter Abramoff, Department of Biolo- gy, Marquette University, W13333, Equal Employment Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR: Applications are invited for a position at the level of assistant professor (tenure track) in the Department of Chemistry at Stanford University. We are committed to attracting a highly qualified, creative, and diverse faculty. The position is available immediately. Applicants must have a Ph.D. and have one or more years of postdoctoral experience. The individual appointed will teach an introductory course in general chemistry, determine a research program, and participate actively in undergraduate education. A research opportunity is provided for collaboration with a member of the faculty in the Department of Biology. The Department welcomes applications from women and minorities.

Send curriculum vitae, a summary of research interests, and names of three references to Dr. John J. Pasternak, Department Chairman, Department of Chemistry, Stanford University, Stanford, CA 94305. Submission of applications is encouraged by 1 December 1987. Stanford University is an Equal Opportunity/ Affirmative Action Employer.

ASSISTANT PROFESSORS OF BIOLOGY AND IMMUNOLOGY
UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE
The Department of Microbiology and Immunology, at the University of Illinois College of Medicine, continuing its expansion in the areas of molecular biology, medicine, cell biology, and immunology, invites applications at the level of assistant professor. The successful candidate will be expected to establish an independent research program and have a commitment to teaching at the graduate level and trainees.

Send curriculum vitae, a summary of research interests, and names of three references to Dr. Harry Greenberg, Chairman, Search Committee, Department of Microbiology and Immunology, University of Illinois College of Medicine, 900 South Street, Chicago, IL 60639. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

One, possible two, academic year positions as AS- SISTANT/ASSOCIATE PROFESSOR IN BIOCHEMISTRY, tenure-track, to begin September 1988. Appointee will be expected to participate in undergradu- ate and graduate education, and to initiate a high quality research program which will complement present pro- grams in the department and the College. Qualifica- tions: Applicants must have Ph.D., postdoctoral experi- ence, and additional experience commensurate with the rank sought. Teaching and research experience in the areas of protein structure and function analysis and in the molecular biology of higher organisms strongly desired. Successful candidate will have joint appointment with the School of Public Health, and be expected to have a three letter of reference from Dr. Jack Preiss, Department Chairman, Department of Biochemistry, University of Chicago, Chicago, IL 60637. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

The Department of Biochemistry at the University of Michigan, School of Medicine, invites applications for a tenure-track faculty position beginning August 1, 1988. This is a new and rapidly growing faculty position in biochemistry. Applicants should have a Ph.D. or equivalent postdoctoral experience and be committed to an active research program. The successful candidate will be expected to establish an independent research program and contribute to the areas of metabolism, protein structure and function, and bioenergetics. The successful candidate will be expected to participate in the educational programs of the Department and to teach at the graduate level.

Send curriculum vitae, a summary of research interests, and names of three references to Dr. James King, Ph.D., Chairman, Department of Biochemistry, 333 West 10th Avenue, Columbus, OH 43210. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR IN NEUROCHEMISTRY
Tulane University School of Medicine—Seeking Applications for Tenure-Track Positions in Neurochemistry. Tulane University School of Medicine invites applications for tenure-track positions in the area of neurochemistry. The successful candidate should have a Ph.D. or an equivalent postdoctoral training in neurochemistry or a related field and should have a demonstrated ability to conduct independent research. Preference will be given to those working in sensory systems. Rank and salary will be commensurate with qualifica- tions. Send curriculum vitae, statement of research interests, representative reprints, and names of three refer- ences to: Dr. Tony D. Clark, Chairman, Department of Neurology, Tulane University, New Orleans, LA 70112.

POSITIONS OPEN
ASSISTANT OR ASSOCIATE PROFESSOR OF ANATOMY
The Department of Anatomy, The Ohio State University, is seeking candidates for a position at the assistant or associate professor level. The department has strong research programs in cell biology and neuro- morphology. The successful candidate will have research interests in contributions to these programs. Candidates must have a Ph.D. or M.D., a strong independent research program in cell, molecular, or developmental biology, and 2 years of postdoctoral experience. Teaching responsibilities will be in histology/cell biology. Send curriculum vitae and three letters of reference by 1 December 1987 to: James Settle, Ph.D., Professor and Chairman, Department of Anatomy, 333 West 10th Avenue, Columbus, OH 43210. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR IN NEUROCHEMISTRY
Tulane University School of Medicine—Seeking Applications for Tenure-Track Positions in Neurochemistry. Tulane University School of Medicine invites applications for tenure-track positions in the area of neurochemistry. The successful candidate should have a Ph.D. or an equivalent postdoctoral training in neurochemistry or a related field and should have a demonstrated ability to conduct independent research. Preference will be given to those working in sensory systems. Rank and salary will be commensurate with qualifica- tions. Send curriculum vitae, statement of research interests, representative reprints, and names of three refer- ences to: Dr. Tony D. Clark, Chairman, Department of Neurology, Tulane University, New Orleans, LA 70112.

The Department of Biochemistry at the University of Michigan, School of Medicine, invites applications for a tenure-track faculty position beginning August 1, 1988. Applicants should have a Ph.D. or equivalent postdoctoral experience and be committed to an active research program. The successful candidate will be expected to establish an independent research program and contribute to the areas of metabolism, protein structure and function, and bioenergetics. The successful candidate will be expected to participate in the educational programs of the Department and to teach at the graduate level.

Send curriculum vitae, a summary of research interests, and names of three references to Dr. James King, Ph.D., Chairman, Department of Biochemistry, 333 West 10th Avenue, Columbus, OH 43210. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCH SCIENTIST: Postdoc- toral position immediately available for individual to work in the laboratory of Dr. Jack Preiss. Candidate should have solid training and proven experience in recombinant DNA technology, and should wish to join a productive group. The candidate will be expected to undertake research in the area of molecular biology and will be involved in collaborative projects. The position is for two years and includes travel support. Send letter of application and names of two references to: Joan Harmon, Personnel Department, NYU Medical Center, 317 East 34 Street, New York, NY 10016. An Affirma- tive Action/Equal Employment Opportunity Employer.
POSITIONS OPEN

ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR
The Department of Microbiology, Immunology, and Parasitology at Louisiana State University Medical Center invites applications for two tenure-track positions at the assistant or associate professor level. Applicants must have a Ph.D. or M.D. degree and three or more years of postdoctoral research experience, with an interest in molecular parasitology/bacterial pathogenesis. The individuals hired will be involved in teaching medical as well as graduate students. Applicants must send curriculum vitae to: Dr. Ronald B. Luftig, Head, Department of Microbiology, Immunology, and Parasitology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DIRECTOR
MICHIGAN AGRICULTURAL EXPERIMENT STATION (AES)
MICHIGAN STATE UNIVERSITY

Associate director/ professor (full year, full-time, tenure system). Shared responsibility for administration of AES and specific responsibilities in areas to be designated. Ph.D. degree in some field of agriculture or natural resources. Consideration of research accomplishments and demonstrated interest and potential for administration. Send letter of application and complete resume to: Dr. Larry Lang, AES, Michigan State University, 1901 Perdido Street, New Orleans, LA 70112. An Equal Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

AVIAN BIOLGIST
The Department of Zoology, University of Florida, invites applications for a 9-month tenure-track position beginning August 1988, at the assistant professor level. Applicants' research should involve the behavior, ecology, evolution, or biology of birds. The successful candidate will maintain a productive research program, teach an undergraduate course in avian biology, and develop a course in his/her specialty. Applicants should submit curriculum vitae; a succinct statement of research and teaching interests, including a course outline for avian biology; representative publications; and names, addresses, and telephone numbers of four references by 30 November 1987 to: Dr. Peter Feinsinger, Chair, Avian Biology Search Committee, Department of Zoology, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/ Affirmative Action Employer.

BIOLOGY FACULTY POSITIONS
ILLINOIS STATE UNIVERSITY

Four full-time tenure-track positions at the assistant/associate professor level will be available in fall 1988. Postdoctoral experience is preferred. The appointments will be expected to establish strong research programs capable of attracting extramural funding. Teaching responsibilities will include training M.S. and Ph.D. candidates, a graduate course in the appointee's specialty, and involvement in the undergraduate curriculum.

EKARYOTIC GENETICIST applying molecular techniques to questions of gene regulation and/or development.
Contact: Dr. Glen E. Collier

MOLECULAR MICROBIOLOGIST with research interests in prokaryotic molecular genetics preferred, but other areas will be considered.
Contact: Dr. Brian J. Wilkinson

PHYSIOLOGICAL ECOLOGIST utilizing physiological techniques to investigate ecological questions in plants or animals.
Contact: Dr. Wayne A. Riddle

SYSTEMATIST applying current methodologies to question a taxon's phylogeny, and/or evolution in any taxon.
Contact: Dr. Joseph E. Armstrong

Send letter of application and names of three references to the respective: Search Committee Chair, Department of Biological Sciences, Illinois State University, Normal, IL 61790. Application reviews will be conducted beginning 1 December 1987. Illinois State University is an Equal Opportunity/Affirmative Action Employer. State law mandates demonstrable oral proficiency in the English language as a requirement for these positions.

POSITIONS OPEN

CELL PHYSIOLOGIST. Rank of assistant professor: Qualifications: Ph.D. degree(s) with a strong background in metabolic and biochemical physiology. Teaching duties include participation in teaching physiology in the professional veterinary curriculum as well as in the developer's preclinical curriculum as a part of the fourth-year curriculum. The successful candidate will be expected to initiate and conduct a high quality research program. Application deadline: 1 May 1988. Please send letter of application, curriculum vitae, and names and addresses of three persons who, upon contact, would be willing to give us an evaluation of your qualifications and abilities to: Dr. Robert A. Argenzio, Department of Anatomy, Physiology, and Pathobiology, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.

CHAIRPERSON, DEPARTMENT OF MUSCULOSKELETAL RESEARCH
RESEARCH INSTITUTE OF THE CLEVELAND CLINIC FOUNDATION

A search committee of the Cleveland Clinic Foundation is seeking interested candidates for the position of a Chairperson for the Department of Musculoskeletal Research within the Research Institute of the Foundation. The department has a modern facility with new laboratories and has strong institutional support. The department is currently active in research in the fields of molecular biology, cellular proliferation, and biochemistry. It is expected that the chairperson will maintain an active research program and collaborate with related departments. Applications will be expected to distinguish scientists of national and international reputation with a strong scientific background and demonstrated leadership and administrative skills. Candidates should be in possession of a M.D. or Ph.D. degree.

The Research Institute of The Cleveland Clinic Foundation is composed of 10 departments, with over 1000 scientists, staff scientists and more than 80 post-doctoral trainees devoted to basic biomedical research. The position is immediately available with an attractive salary and excellent benefits. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGY

The Department of Biology of the University of Houston invites applications for a tenure-track position at the assistant/associate professor level in Developmental Biology. Applicants must have at least 1 year of postdoctoral experience and a demonstrated ability to conduct independent research. The successful candidate will be expected to establish and maintain an independent research program and to attract extramural funding. The University of Houston is a large, comprehensive university with approximately 20,000 undergraduate and graduate students. Interested applicants should send curriculum vitae, a statement of research interests, and the names of three references to: Dr. Robert Wells, Ph.D., Developmental Biology Search Committee, Department of Biology, University of Houston, Houston, TX 77004. The University of Houston is an Equal Opportunity/ Affirmative Action Employer.

DEVELOPMENTAL GENETICS

The Department of Biology of the University of Houston invites applications for a tenure-track position at the assistant professor level in Developmental Genetics. Applicants must have a strong background in one or more of the following: embryology, genetics, immunology, cell biology, or molecular biology. The successful applicant will be expected to establish and maintain an independent research program in the area of development. The University of Houston is an Equal Opportunity/Affirmative Action Employer.

CYTOGENETICIST

Trained cytotecnologist required to join research team studying cytogenetics and molecular genetics of human chromosomes. Experience with the techniques of karyotyping and chromosomal rearrangements required. Experience in recombinant DNA technology desirable. Send curriculum vitae and letter of application to: Dr. Eric Stanbridge Department of Microbiology and Molecular Genetics University of Kentucky, Lexington, KY 40506.

DEPUTY DIRECTOR
MEDICAL RESEARCH SERVICE

The Veterans Administration invites applications for the position of Deputy Director, Medical Research Service. The Medical Research Service currently has a budget of about $180 million and supports biomedical and behavioral sciences research of over 2500 VA scientists. 75 percent of whom are physicians. It is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinical application of new knowledge. The Director and Deputy Director are responsible for policy development, peer review management of all investigator-initiated research studies, and overall program management. The Deputy Director is expected to be nationally recognized scientists, and must have an established record of scholarly achievement. The position requires a M.D. or Ph.D. degree. Salary is $72,500 and additionally special pay up to $24,818.

QUALIFIED applicants are invited to send curriculum vitae, bibliography, and the names, addresses, and telephone numbers of three respondents by 30 November 1987 to: Richard J. Greene, M.D., Ph.D., Assistant Deputy Director for Research and Development (15), Veterans Administration, 810 Vermont Avenue, NW, Washington, DC 20420.

The Veterans Administration is an Equal Opportunity Employer.
AFFIRMATIVE ACTION/ADMISSIONS POLICY

Egalitarianism is a tenet of the Faculty of the College of Biology at Princeton University. This policy is based on the principle that all members of the academic community, including students, faculty, and staff, are valued equally and have the same right to equal opportunities. This policy applies to all aspects of the University, including admissions, employment, and academic programs. The University is committed to ensuring that all members of the community have access to equal opportunities and that no member is discriminated against based on race, color, national origin, religion, gender, sexual orientation, gender identity, or any other legally protected status.

The University is committed to providing a welcoming and inclusive environment for all members of the academic community. This includes all members of the University, including students, faculty, and staff. The University is committed to ensuring that all members of the community have access to equal opportunities and that no member is discriminated against based on race, color, national origin, religion, gender, sexual orientation, gender identity, or any other legally protected status.

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The UNIVERSITY OF MARYLAND
AGRICULTURAL BIOTECHNOLOGY CENTER (ABC)

The center is located on the College Park campus and is in the newly initiated Maryland Biotechnology Institute. All appointees will hold tenure-track positions in the Center, joint appointments and laboratory facilities in appropriate departments within the University, and will participate in student training. ABC will bring together researchers with a primary focus on the molecular biology of plant and animal protection from the University, the U.S.D.A. Beltsville, and industry in the Washington/Baltimore metropolitan area.

1. Molecular Plant Virusologist: Successful candidate will have a joint appointment with the Botany Department. Candidate will be expected to develop a strong research program in molecular plant virology and to interact closely with a developing group in the Center whose research focuses on plant protection and an established group within the Botany Department exploring molecular plant-virus interactions.

2. Molecular Entomologist: Successful candidate will have a joint appointment with the Entomology Department. Candidate will be expected to develop strong research programs in molecular biology of insects with emphasis on plant and animal protection. Appointee will interact with existing programs within the Entomology Department on insect pathology, biochemistry, molecular basis of insect-plant or insect-pathogen interactions.

3. Molecular Virologist/Immunologist: Successful candidate will have a joint appointment with the Department of Veterinary Medicine. Candidates will be expected to develop strong research programs preferably in the area of host resistance and pathogenesis of infectious diseases. Applicants should have experience in recombinant DNA technology and will be expected to develop genetic or immunological procedures for prevention or interaction in diseases and to cooperate effectively with colleagues in ABC and faculty in the School of Veterinary Medicine.

4. Plant Biologist: Successful candidate will have a joint appointment with the Department of Chemistry and Biochemistry. Candidate will be expected to develop strong programs in plant biochemistry and to establish a vigorous, competitive program; will have ample opportunities to establish interactions with other members of ABC and with departmental biochemists in the Department of Chemistry and Biochemistry. A commitment to both undergraduate and graduate instruction is also essential.

Applicants must have Ph.D. and postdoctoral experience and all positions are at the junior level. Salary is commensurate with qualifications. Submit a letter stating career goals, proposed research, resume, and four letters of recommendation by December 1, 1987 to:

Chairmen of Search Committees (A. Teramura, Botany; M. Ma, Entomology; S. Mohanty, Vet. Medicine; J. Kozarich, Biochemistry)

c/o Agricultural Biotechnology Center, H.J. Patterson Hall
University of Maryland, College Park, Maryland 20742

An Equal Opportunity/Affirmative Action Employer.

BECKMAN

SR. APPLICATIONS CHEMIST

Beckman Instruments designs and manufactures quality analytical instrumentation for the life science industry. We currently have the following opportunity available.

Your responsibilities will include developing and demonstrating HPLC separation techniques for the bioresearch and biotechnological marketplaces, writing application reports, telephone consulting, and participation in trade shows and field sales support.

This position requires a Ph.D. in biological/biochemical science, familiarity with the protein, nucleic acid and antibody disciplines, and demonstrated ability in assays for enzymatic activity and techniques of purification and chromatographic resolution of macromolecules. Experience with P.A.G.E. is preferred, and HPLC experience is essential.

Qualified candidates should send resumes to Beckman Instruments Inc., Altex Division, P.O. Box 5101, San Ramon, CA 94583-0701. We are an equal opportunity employer.
MicroGeneSys, Inc.
is strongly committed to developing recombinant vaccines for AIDS and other infectious diseases. Recent achievements in MicroGeneSys' vaccine programs have established a platform for dynamic growth. We invite qualified scientists to consider a career with MicroGeneSys. Senior Scientist (Ph.D.), Research Associate (M.S.), and Research Technician (B.S.) level positions are now available in the following areas:

- Protein Biochemistry
- Immunology
- Quality Control
- Process Sciences
- Clinical Research

At MicroGeneSys, we offer a stimulating and challenging scientific environment, competitive salaries and an excellent benefit package. The Company's south central Connecticut location, near New Haven is convenient to New York City and New England locations.

For immediate consideration, please submit a curriculum vitae along with a statement of research interests and salary history, in confidence, to the Personnel Director, MicroGeneSys, Inc.

NEW ENGLAND BIOLABS

A small, informal biotechnology company on the ocean 20 miles north of Boston that specializes in the production and cloning of restriction endonucleases has openings for:

MOLECULAR PARASITOLOGIST (POST DOCTORAL POSITION) - an individual with experience in molecular biology and/or immunology. Projects will involve the cloning and characterization of filarial antigens.

MICROBIOLOGIST/FERMENTATION SPECIALIST - an individual with prior experience in growth of a variety of microorganisms in 25 to 100 liter fermentations. Cell disruption and protein purification experience would be useful. Good mechanical skills and a B.S. in microbiology or related field required.

Candidates please submit curriculum vitae with three references to:
New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915-5510

Postdoctoral Fellows
Molecular Genetics

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking additional postdoctoral fellows to expand its current research programs employing recombinant DNA technology.

Excellent opportunities exist for innovative interdisciplinary research in our new and superbly equipped Research and Development Center in suburban Philadelphia near Valley Forge, Pennsylvania.

The Department of Molecular Genetics is seeking outstanding Ph.D. scientists to pursue research on:

- Streptomyces proteases/role in foreign protein production
- Gene expression in Streptomyces
- Expression and functional analysis of retroviral/AIDS proteins
- T-lymphocyte receptors-structure/function studies
- Regulation of interleukin-1 gene expression
- Tumor Necrosis Factor action at the molecular and cellular level
- Transcriptional activation
- Cloning/expression of Candida genes in S. cerevisiae

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Robert F. Obst, R0097 Manager, Personnel Relations, Smith Kline & French Laboratories, Research and Development Division, P. O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
Pharmaceutical Clinical Research

The Central Research Division of Pfizer Inc. has a position for a physician in its Clinical Research Department. This department is an integral part of Central Research, a large modern research institution located in a campus setting in coastal southeastern Connecticut. The atmosphere is collegial, friendly, and scientifically stimulating, with frequent seminars by leaders in the fields of medicine, biology and chemistry.

This position provides an opportunity to exercise ingenuity and originality in the application of scientific principles to the clinical investigation of new therapeutic agents. This will involve you in the planning and implementation of clinical research programs with new drugs discovered by our discovery research project teams. Close interaction with these teams affords an opportunity to participate in the transfer of advances in basic science to the clinical situation.

If you are a physician with strong clinical training, prior basic or clinical research experience, and a scientific bent, this is an exciting career opportunity. It involves the planning, initiation, monitoring, and reporting of clinical trials to study new CNS, GI or metabolic medicinal agents. You will be aided by Clinical Research Associates and supported by a team of statisticians and data processing personnel. We prefer that you have training in internal medicine, with board certification and subspecialty training in endocrine-metabolic diseases, gastroenterology, Psychiatry, or hematology-oncology desirable.

We offer a competitive benefit package and compensation, and the opportunity to live in an attractive Connecticut shore community. Please send your resume to Dr. Jerry K. Larson, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer

Research News Reporter

Science Magazine

The Research News section of Science Magazine has an opening for a writer with a strong background in physical or engineering sciences. Coverage would include current topics in physics, including superconductivity, chemistry, materials science, and engineering. A demonstrated ability to write news and feature articles is required. An application for this full-time position in Washington, D.C., should include a curriculum vitae, salary requirements, a letter describing your interest in Research News, and not more than five writing samples.

Please send information to Carolyn Bell, Science Magazine, 1333 H Street, N.W., Washington, D.C. 20005.

EOE

Research & Development Opportunities

The Dade Division of Fortune 100 Baxter Healthcare Corporation, is a leading supplier of diagnostic products and instrumentation for clinical laboratories, with plants in the U.S., Europe, and Puerto Rico. We currently have exceptional opportunities for Scientists in our Research and Development Departments.

Section Head/Reagent Development

Direct and coordinate a team of scientists responsible for the design, development and evaluation of stratus enzyme immunoassays. This position requires the combination of broad technical knowledge with strong managerial skills. The selected candidate must possess a Ph. D. in chemistry, biology or biochemistry with 3-5 years of industrial experience in immunodiagnostic assay design and development.

Group Leader/Immunology

Manage a group of scientists in an antibody development program for both monoclonal and polyclonal antibodies. The selected candidate should have experience in production and characterization of both monoclonal and polyclonal antibodies and possess a Ph. D. with experience in immunochemistry, immunobiology and hybridoma technology.

Research Scientist/Reagent Development

The selected candidate will be responsible for the formulation and development of infectious diseases assays for our Stratus Immunoassay System. The incumbent should possess a Master's degree in a life science and 1-2 years prior industrial experience or a Bachelor's degree and 3-5 years prior industrial experience. The selected candidate should be well versed in enzyme-immunoassays with hands-on experience in their design and validation.

The above mentioned positions are based on the beautiful east coast of South Florida where, in addition to paying no state or local income taxes, you will enjoy a year-round quality lifestyle which attracts visitors from around the world.

Baxter offers a stimulating career opportunity where contributions are recognized and rewarded. For confidential consideration, please forward your resume to the Recruiter, Baxter Healthcare Corporation, Dade Division, P.O. Box 520672, Miami, FL 33152.

Equal Opportunity Employer.

Baxter

1988 Fellowship Opportunities

Radioactive Waste Management

Fellowships are offered by the U.S. Department of Energy for graduate study and research related to the management of spent nuclear fuel and high-level radioactive waste. The program seeks to encourage qualified undergraduates in earth sciences, engineering, materials science, and radiation science to pursue graduate study at participating university programs in radioactive waste management technologies. Fellowship benefits include a $1,000 monthly stipend and full payment of tuition and fees.

The program includes a practicum at a participating research center. The practicum is designed to give on-site experience with DOE radioactive waste management research activities. Applications for fellowships beginning September 1, 1988, must be received in the Oak Ridge Associated Universities' University Programs Division office at the address below by February 1, 1988, 4:30 p.m.

Information and application forms may be requested from RWV Fellowship Program University Programs Division Oak Ridge Associated Universities P.O. Box 117 Oak Ridge, Tennessee 37831-0117 Telephone (615) 576-3455

This is an equal opportunity program open to all qualified persons without regard to race, sex, creed, color, age, handicap, or national origin. An applicant must be a U.S. citizen or a permanent resident alien.
POSITIONS OPEN

FACULTY POSITIONS IN MAMMALIAN MOLECULAR BIOLOGY

The Department of Molecular Biology of the University of Texas at Tyler invites applications and nominations for several faculty positions in mammalian molecular biology. Preference will be given to individuals with research interests in one of the three major areas: (i) post-transcriptional regulation of gene expression; (ii) the regulation of gene(s) important for the synthesis of extracellular matrix components or (iii) to scientists applying the techniques of molecular biology to the study of lung diseases. Applications are encouraged from individuals interested in developing programs to provide technical assistance for ongoing research at the 550-acre Biological Field Station near the Oxford campus. The University of Texas at Tyler is an Equal Opportunity Employer.

FIELD STATION MANAGER—The Department of Biology, University of Mississippi, seeks a manager to provide technical assistance for ongoing research at the 550-acre Biological Field Station near the Oxford campus. The manager will coordinate applications to multidisciplinary programs involving both basic science and clinical disciplines. Applicants should submit their vitae to:

Dr. William J. Butler
Chairman, Search Committee for Head of the Division of Science and Chairman, Department of Physiology and Molecular Biophysics
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
An Equal Opportunity Employer

IMMUNOLOGIST—EXPERIMENTAL PATHOLOGIST

A tenure-track position exists at the assistant professor or associate professor level with research interests in the area of experimental pathogenesis, particularly in the area of immunology and infectious disease. The successful candidate will be provided with laboratory space, technical support, and the opportunity to participate in ongoing interdepartmental projects. The position is open to candidates with a Ph.D. or equivalent degree. Applications should be submitted to:

Dr. Robert J. Newton
Director
Trudeau Institute
P.O. Box 59
Saranac Lake, NY 12983

MIBIOLOGIST

The Department of Microbiology, Medical College of Ohio, seeks candidates for a tenure-track position. The successful applicant will be expected to develop an independent, competitively funded research program focusing on the genetics or molecular biology of prokaryotes and to participate in the department's graduate/ professional teaching programs. Applicants should have a doctoral degree, and at least 2 years of postdoctoral experience. The current research emphasis is on the regulation of gene expression, and the successful candidate will be expected to establish and maintain a research program in this area. The Medical College of Ohio is an Equal Employment Opportunity/Affirmative Action M/F Employer and Educator.

MOLECULAR AND CELL BIOLOGY

Applications are invited for two TENURE-TRACK FACULTY POSITIONS at the assistant professor level with research emphasis in microbial systems (viruses, bacteria, lower eukaryotes), to be filled by 16 August 1985. We plan to interview at the American Congress of Microbiology. Candidates will be expected to establish vigorous, independent research programs. Both candidates will be expected to reinforce our strong commitment to research and graduate teaching in molecular and cellular biology. Excellent opportunities exist for interaction with other faculty conducting research in cell and molecular biology, microbiology, and biochemistry. Each candidate is expected to participate in undergraduate and graduate teaching and to conduct research in their area of expertise. Applicants are requested to submit a letter expressing their interest in the position, a current curriculum vitae, research interests, and three references to:

Dr. Earl H. Freimer, Chairman
Department of Microbiology
Medical College of Ohio
Toledo, OH 43669

The Medical College of Ohio is an Equal Employment Opportunity/Affirmative Action M/F Employer and Educator.

DEPARTMENT OF BIOLOGY-QUEEN'S UNIVERSITY

The Department of Biology invites applications for a tenure-track position in MOLECULAR GENETICS. A preference will be given to applicants in plant science, but applicants in all areas of molecular genetics are urged to apply. The successful candidate should be an enthusiastic and competent teacher in genetics and molecular biology. Teaching responsibilities will include teaching a rigorous research program. Qualifications include a Ph.D. degree and published evidence of excellent research ability. Candidates of either sex are eligible to apply. The appointment will be effective 1 July 1988 (or as negotiated), and is expected to be at the rank of assistant professor with salary commensurate with qualifications. Application materials, including a statement of research interests and plans, and the names of three references, should be sent to:

Dr. J. C. Z. Thorne, Chairman
Department of Biology
Queen's University
Kingston, Ontario, Canada, K7L 3N6

POSITIONS OPEN

FIELD STATION MANAGER—The Department of Biology, University of Mississippi, seeks a manager to provide technical assistance for ongoing research at the 550-acre Biological Field Station near the Oxford campus. The manager will coordinate applications to multidisciplinary programs involving both basic science and clinical disciplines. Applicants should submit their vitae to:

Dr. William J. Butler
Chairman, Search Committee for Head of the Division of Science and Chairman, Department of Physiology and Molecular Biophysics
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
An Equal Opportunity Employer

IMMUNOLOGIST—EXPERIMENTAL PATHOLOGIST

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Dr. Robert J. Newton
Director
Trudeau Institute
P.O. Box 59
Saranac Lake, NY 12983

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Dr. J. C. Z. Thorne, Chairman
Department of Biology
Queen's University
Kingston, Ontario, Canada, K7L 3N6
FACULTY POSITIONS AND ENDOWED PROFESSORSHIP IN MOLECULAR BIOLOGY

Iowa State University's expanding molecular biology program includes faculty members from five colleges: interdisciplinary biotechnology research projects established with part of an $81 million commitment of state funds; a $30.5 million molecular biology building in the design/construction phase; and state-of-the-art instrumentation centers for protein, nucleic acid, cell, and fermentation research.

ISU invites applications for nine tenure-track faculty positions with competitive salaries at levels commensurate with experience. In addition, the successful candidates are eligible for up to $185,000 in start-up funds.

ANIMAL VIROLOGIST
DEPT. VET. MICROBIOL. & PREV. MED.
The university seeks a virologist with experience in the application of molecular biology to the study of animal viral diseases. Research experience in molecular virology is preferred. Strong candidates will possess DVM/Ph.D. or Ph.D. degrees and an active research program. Teaching responsibilities include a shared course of animal virology for veterinary students, a graduate course in molecular virology, and training of graduate students.

Contact:
Dr. T. T. Kramer, Chair
Iowa State University
Ames, Iowa 50011

DEVELOPMENTAL NEUROBIOLOGIST
DEPT. OF ZOOLOGY
Iowa State University seeks an individual who will use state-of-the-art molecular or genetic approaches to study the developing nervous system. The new appointee, along with other faculty in developmental and molecular biology, genetics, and neurobiology, will play a key role in the future growth of neuroscience and developmental biology at ISU. The applicant must have postdoctoral experience in his/her area of research interest. Teaching responsibilities will be modest.

Contact:
Dr. P. Haydon
Dept. of Zoology
Iowa State University
Ames, Iowa 50011

MOLECULAR BIOLOGIST
DEPT. OF ANIMAL SCIENCE
We seek a molecular biologist using state-of-the-art techniques to study milk protein synthesis with application to food-producing animals. The successful candidate will have ample opportunity to interact with molecular biologists in several departments who are studying protein metabolism and gene regulation. The individual will be expected to complement and interact with current research in the nutritional physiology group which includes in vivo kinetics of metabolism of nutrients.

Contact:
Dr. S. A. Ewing, Head
Dept. of Animal Science
101 Kildee Hall
Iowa State University
Ames, Iowa 50011

MOLECULAR BIOLOGIST
DEPT. OF ANIMAL SCIENCE
We seek a molecular biologist using state-of-the-art techniques to study gene expression in vertebrates. The successful candidate will serve to strengthen molecular biological research in several departments and will have ample opportunity to interact with molecular biologists in several departments. The individual will be expected to complement and interact with researchers working in the areas of muscle biology and animal growth and development.

Contact:
Dr. S. A. Ewing, Head
Dept. of Animal Science
101 Kildee Hall
Iowa State University
Ames, Iowa 50011

PIONEER ENDOWED PROFESSORSHIP IN MOLECULAR BIOLOGY
Iowa State University seeks a plant molecular biologist to conduct research in the molecular biology of maize. Possible areas of interest include, but are not limited to, genetics, biochemistry, and physiology of maize. The individual will interact with internationally respected maize geneticists and breeders, will work in state-of-the-art facilities, and will have access to a large collection of superior quality germplasm and genetic stocks. The individual's research program will receive generous start-up funds and annual income from a $5 million endowed endowment. The candidate's appointment will depend on the qualifications of the successful candidate. The department affiliation(s) and teaching responsibilities will be determined by the interest and expertise of the individual and the needs of the university.

Contact:
Dr. Walter R. Fehr
Biotechnology Coordinator
1301 Agronomy Building
Iowa State University
Ames, Iowa 50011

MAIZE MOLECULAR GENETICIST
DEPT. OF GENETICS
The university seeks a molecular geneticist to conduct research on maize. The new appointee will interact with other maize geneticists on campus to further an already well-established maize research program. The individual will share in the instructional duties of the department at the graduate and/or undergraduate level. Postdoctoral experience is required.

Contact:
Dr. Donald Robertson
Dept. of Genetics
10 Curtis Hall
Iowa State University
Ames, Iowa 50011 (515-294-3908)

FUNGAL OR PLANT MOLECULAR BIOLOGIST
DEPT. OF BOTANY
The individual will conduct basic research on the molecular biology of fungi or plants. The successful candidate will have excellent opportunities for interaction with researchers in the areas of genetics, plant physiology, and related disciplines. Teaching responsibilities will include a one-semester graduate course in the applicant's specialty and participation in a one-semester undergraduate course. Preference will be given to applicants with postdoctoral experience.

Contact:
Chair, Dept. of Botany
Iowa State University
Ames, Iowa 50011

MOLECULAR BIOLOGIST
DEPT. OF PLANT PATHOLOGY
The successful candidate will be expected to develop a cooperative program of basic research on the molecular mechanisms involved in plant-parasite interactions. Approaches may include, but are not limited to, molecular genetics, physiology and biochemistry of the interaction, fungal virulence, or nematodes with plants. The individual will share in the instructional duties of the department. Postdoctoral experience is preferred.

Contact:
Dr. John H. Hill
Molecular Biology Search Committee
Dept. of Plant Pathology
351 Betsy Hall
Iowa State University
Ames, Iowa 50011

PLANT MOLECULAR BIOLOGIST
Iowa State University seeks an individual to lead a basic research program in the biosynthesis of plant constituents. An individual with training and expertise in biochemistry and genetics is desired. The department affiliation(s) and teaching responsibilities will be determined by the interest and expertise of the individual and the needs of the university.

Contact:
Dr. Donald J. Graves
Dept. of Biochem. & Biophys.
Iowa State University
Ames, Iowa 50011

The university also invites applications for the Pioneer Endowed Professorship in the molecular biology of maize. This position, described in detail below, has a generous start-up package plus annual support from a $81 million endowment.

Applicants for the tenure-track faculty positions or the endowed professorship should submit a letter of application: a curriculum vita including past and current research activities and publications; and 3 letters of reference to the appropriate contact. Closing date for all positions: January 1, 1988.

IOWA STATE UNIVERSITY | AMES, IOWA
POSITIONS OPEN

MOLECULAR BIOLOGIST
UNIVERSITY OF MISSOURI–ROLLA

The Life Sciences Department of the University of Missouri–Rolla invites applications for a tenure-track assistant professor position to begin fall, 1988. Requirements include a recent Ph.D. degree in a molecular approach to botany, parasitology, microbiology, or virology, with demonstrated ability to teach and conduct independent research. Postdoctoral experience, command of recombinant DNA techniques, and ability to contribute to a developing bioengineering program are desirable. Send curriculum vitae, recent publications, a statement of research interests, and three letters of reference before 31 December 1987 to: Dr. Noel L. Gale, Chairman, Department of Life Sciences, University of Missouri–Rolla, Rolla, MO 65401. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.

Exceptional opportunity for THREE MOLECULAR BIOLOGISTS, one senior and two junior, to conduct independent research, cooperate with colleagues, and participate in the university's teaching program, in a department with notable strength in developmental biology. Send curriculum vitae and three references to: Dr. Dale E. Bockman, Department of Anatomy, Medical College of Georgia, Augusta, GA 30912–3305.

M.S. IN BIOTECHNOLOGY. A graduate program in biotechnology is offered at the University of Tennessee, Knoxville. It includes extensive training in cell biology and recombinant DNA methodologies, as well as process engineering, plant and animal tissue culture, and monoclonal antibodies. It also includes either co-op experience with industry, or a traditional thesis in an area of specialization. Seminar on sociological, bioethical, and regulatory aspects of biotechnology is part of the program. Financial assistance is available. Please apply to:

Program Director, Biotechnology
M303 WLS Building
The University of Tennessee
Knoxville, TN 37996–0830

NEUROSOCIENTIST. Position available for Ph.D. neuroscientist at the research assistant professor level in Pediatrics in the Division of Child Development and Rehabilitation at the Children's Seashore House, The Children's Hospital of Philadelphia, and the University of Pennsylvania School of Medicine. Position involves collaboration in research project studying effects of ammonia on excitatory neurotransmitters. Send curriculum vitae, names of three references, and a letter indicating your interest to: Mark L. Batehaw, M.D., Children's Seashore House, 344th Street and Civic Center Boulevard, Philadelphia, PA 19104. Children's Seashore House, The Children's Hospital of Philadelphia, and the University of Pennsylvania are Equal Opportunity/Affirmative Action Employers.

NEUROSOCIENTISTS

Two tenure-track positions are available in the assistant professor level in the Department of Anatomy and Neurobiology. Applicants should have a minimum of 2 years of postdoctoral training, and a strong record of research productivity and potential to establish an independent research program. Preference will be given to applicants with research interests in developmental, molecular, or systems neuroscience. The quality of research program and potential for interactions with present faculty members is more important than the specific type of research. Preference for one of the positions will be given to individuals with experience in gross anatomy. Teaching responsibilities for the second position include neuroscience and/or histology. Both individuals will be expected to participate in a multidisciplinary neuroscience graduate program. Send curriculum vitae, description of research interests, summary of teaching experience, and names of three references by 1 December 1987 to: Dr. Rodney L. Parsons, Chairman, Department of Anatomy and Neurobiology, College of Medicine, The University of Vermont, Burlington, VT 05405. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOCHEMIST/MOLECULAR BIOLOGIST
Ph.D. LEVEL
Pharmaceutical Research

The Parke-Davis Pharmaceutical Research Division of Warner-Lambert has an opening for a creative and energetic scientist to join the Biochemistry Section within our Pharmacology Department.

Qualifications should include:

• Ph.D. or equivalent in biochemistry or related discipline with strong emphasis on molecular biology
• One to two years postdoctoral research in modern molecular biology with emphasis on protein purification and separation
• Background with enzymes involved in the biosynthesis or action of arachidonic acid metabolites or with protein mediators is desired
• Effective oral, written and interpersonal skills

Responsibilities will be:

• Bench level studies using modern molecular biology technologies to separate and purify enzymes and other therapeutically relevant proteins
• Interface with other biochemists, biologists, medicinal chemists and pharmacologists involved in ongoing drug discovery efforts

We offer excellent compensation and benefits at our modern facilities adjacent to the University of Michigan campus. Qualified applicants should send curriculum vitae in confidence to: Sandra Hultquist, Human Resources, Warner-Lambert/Parke-Davis, 2800 Plymouth Rd., Ann Arbor, Michigan 48105.

An Equal Opportunity Employer

PARKE-DAVIS
Div. of Warner-Lambert Co.

ASSISTANT SCIENTIST

Protein Biochemistry

Hoffmann-La Roche is one of the world's most progressive and respected leaders in the fields of pharmaceuticals and medical research. Due to our commitment to the advancement of modern science, we are seeking an Assistant Scientist to join our Protein Biochemistry Department.

You will become involved in the purification of proteins (HPLC, gel electrophoresis and affinity chromatography), immuno and enzymatic assays, and the chemical modification of proteins. To qualify, you should have a BS/MS in Chemistry or Biochemistry (or equivalent), self-motivation needed to work effectively with limited supervision, and excellent verbal/written communication skills. 1-2 years of related experience would be a plus.

In return, we offer a competitive salary, excellent benefits, and the resources of a large, research driven organization. For consideration, please send your resume, indicating salary history and requirements (those resumes without this information will not be acknowledged) to: Frances Newman, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Hoffmann-La Roche
Working Today For a Healthier Tomorrow.
Membrane Biochemist, Ph.D.

Merck Sharp and Dohme Research Laboratories is currently seeking a Ph.D. Senior Research Membrane Biochemist to join the department of Membrane Biochemistry & Biophysics. The position involves the study of protein chemistry aspects of ion channels/transport proteins with particular emphasis on protein purification and elucidation of structure-function relationships as they pertain to membrane protein activity. The position requires a Ph.D. in biochemistry with at least two years of postdoctoral experience in membrane biochemistry. The candidate should have a broad knowledge of membrane proteins with demonstrated strengths in the purification of ion channels or transport proteins, reconstitution of membrane proteins and the development of procedures for the assay of ion channel/transport protein function.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent.

Interested candidates should submit their resume with the names of three references and salary requirements to: Ms. Jacqueline A. Eiermann, Merck & Co., Inc., PO Box 2000, Rahway, New Jersey 07065.

Equal Opportunity Employer

Immunology/Pharmacology

THE LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is expanding its effort in biotechnology and cell biology. A senior scientist is needed in the Cytokine Research Group to develop an independent research program to address the role of cytokines in disease. Experience related to receptor regulation, signal transduction, and/or hematopoietic cell proliferation and differentiation is preferred. The successful candidate should have a Ph.D. and significant postdoctoral experience in the fields of pharmacology, immunology, and/or cell biology. Opportunities are available for collaboration with immunologists, pharmacologists, biochemists, cell biologists, molecular biologists, pathologists and medicinal chemists. The research group is located in a new building with state-of-the-art equipment, laboratories and support.

Interested applicants should send a curriculum vitae to:

John W. Crooks
Manager, College Relations SBR/(S1)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285

Equal Opportunity Employer

Challenges in Biotechnical R&D

Join us where creative thinking meets broadscoped challenges. Becton Dickinson in Northern Baltimore County, Maryland, is making significant discoveries with direct impact on technical immuno products and processes.

We currently seek highly knowledgeable, widely experienced professionals for the following key roles:

Virologist—Virus Production: Requires PhD in Virology or related field, 1–3 years experience in large-scale production/purification of viruses, and a thorough understanding of GMP requirements. Supervisory skills and prior experience with retroviruses would be helpful.

Project Manager—Technical Transfer Group: To resolve technical problems in transfer of technology to Manufacturing and Quality Control. Qualifications include PhD or equivalent in Immunology or Biochemistry or related sciences. Thorough knowledge and experience in various immunological/immunochemical/biomedical methods of in-vitro diagnostic testing with background in microbiology/disease detection.

Group Leader—Biochemistry: To supervise scientists in developing automated non-isotopic immunoassays for diagnostic testing. Requires PhD in Chemistry or related science, and demonstrated experience in development of commercial immunoassays.

Clinical Trial Coordinator: Requires MS or MA degree (PhD a plus) with 6 years post-graduate experience. Must be thoroughly familiar with clinical laboratory instrumentation, in-vitro diagnostic products, and able to interact with both independent research and clinical scientists on collaborative studies.

As a nationally respected Fortune 500 health care industry pacesetter, we can offer competitive salaries, excellent benefits and high potential for achievement. Please send resume, including salary history, indicating position of interest, to: Mrs. Robin L. Vedova, Director, Human Resources, Becton Dickinson, 383 Hillen Road, Towson, MD 21204. An equal opportunity/affirmative action employer.

Superior quality is the only way
MS/BS Biology/Biochemistry

ASSOCIATE SCIENTIST SCREENING & BIOCHEMICAL RESEARCH

Bristol-Myers is a worldwide leader in the research, development, and marketing of sophisticated pharmaceutical, medical care, consumer and nutritional products. Currently, our Pharmaceutical Research & Development Division, located in Wallingford, CT, can offer you a unique opportunity to continue your career in our “world class” research environment.

Our successful candidate will have a BS/MS in Biology/Biochemistry with direct research experience in receptor binding techniques. Additional exposure to automated receptor binding measurement systems, autoradiographic techniques, and/or receptor isolation and purification would be a considerable asset.

Bristol-Myers offers an excellent salary and a comprehensive benefit package including relocation assistance. For confidential consideration, forward your resume, including salary history to: Bristol-Myers Company, Pharmaceutical Research & Development Division, Department PD/39, P.O. Box 5100, Wallingford, CT 06490. An equal opportunity employer. (Principals Only Please)

Bristol-Myers

STATE UNIVERSITY OF NEW YORK AT BUFFALO BIOLOGICAL SCIENCES—FACULTY OPENINGS

TWO ASSISTANT PROFESSORSHIPS: Our goal is to hire individuals who can interact with other members of our faculty and whose research program is in the forefront of his/her field. Serious candidates will be expected to be utilizing modern genetic and molecular approaches to the study of one of the following areas: (a) the immune system at the cellular level, (b) the development of an organism which provides a model system for studies in development, or (c) regulation in an organism to provide a model for studies of regulation at the level of gene transcription.

Successful candidates will be expected to have completed 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, Buffalo, NY 14260. Application deadline is December 18, 1987.

State University of New York is an Affirmative Action/Equal Opportunity Employer.

COMPANY INFORMATION

POST DOCTORAL RESEARCH FELLOW & ASSOCIATE RESEARCH SCIENTIST

Positions are available immediately for rapidly expanding NIH-supported program to study the structure and function of the human immune efficiency virus (HIV) genome, and to investigate the effects of HIV infection on cellular gene expression. Applicants for either positions should have a PhD or MD degree and strong background. These positions will include appointments at the College of Physicians and Surgeons of Columbia University. Send CV and list of references to David J. Voisky, PhD, Molecular Virology Laboratory, St. Luke’s/Roosevelt Hospital Center, 428 West 59th Street, New York, NY 10019. An Equal Opportunity Employer M/F.

ST. LUKE’S ROOSEVELT Hospital Center
POST DOCTORAL FELLOW

To study the molecular mechanisms of immunodeficiency virus (HIV) infections using molecular biology techniques. Qualifications include a Ph.D. degree or the equivalent in molecular biology or biochemistry, with experience in tissue culture, cloning and gene sequencing preferred. Position available immediately with funding support for at least 2 years. Please send application, with curriculum vitae and 2 names for reference purposes (and quoting Post Doctoral position), to: Dr. B.R.G. Williams/Dr. A.S. Lau, Division of Infectious Diseases.

555 University Avenue, Toronto, Ontario MSG 1X8
THE HOSPITAL FOR SICK CHILDREN

CONSULTANT TOXICOLOGIST (DRUG EVALUATOR)

The Australian Department of Community Services and Health is seeking additional consultants to evaluate pharmacology and toxicology data submitted by pharmaceutical companies in support of applications for general marketing of new products.

Consultants will be located at their existing place of residence/work and will conduct evaluations on a contract basis.

Applicants will be expected to have post-doctoral research experience with a good general knowledge of pharmacology and toxicology and considerable experience of drafting scientific reports.

Applications should be accompanied by a curriculum vitae and list of current interests, highlighting qualifications and experience related to the position, and nominating two referees.

Applications close 4 weeks from the date of this publication and should be sent to:

Dr. John Conadoe
Drug Evaluation Branch,
Commonwealth Department of Community Services and Health
P.O. Box 100
WODEN, ACT 2606
AUSTRALIA.

R&D Scientists

CRYSTAL DIAGNOSTICS is a rapidly growing company applying a unique patented technology to industrial and biomedical diagnostic devices. Several new positions are available for highly motivated individuals in the biomedical R&D group:

Senior Scientists

The positions require a Ph.D with three years' industrial experience in the development of test kits for standard clinical chemistries or immunodiagnostics. Familiarity with dry reagent chemistry would be a definite advantage.

Associate Scientists

Clinical Chemistry or Immunodiagnostic. The positions require a B.S. degree with at least 2 years' industrial experience in (1) the development of clinical chemistry test kits or (2) experience in protein purification and labeling, nonisotopic immunoassay kit development for drugs, or solid phase chemistry and characterization.

Successful candidates will enjoy the opportunity of working in a dynamic and creative environment. We offer competitive salaries and benefits. Qualified candidates should send a detailed resume to the Personnel Manager at: Crystal Diagnostics, Inc., 600 West Cummings Park, Woburn, MA 01801.

Engineers

Physics and Superconducting Apparatus

CEBAF, The Continuous Electron Beam Accelerator Facility, will be a 4 GeV high-intensity continuous wave electron accelerator utilizing superconducting RF technology. Close to historic Williamsburg, Virginia Beach, and a short jaunt from the nation's capital, we offer an excellent environment for talented individuals to grow within their field. Opportunities now exist in the following disciplines:

- Experimental Hall Chief Engineer
- Magnetic Measurements Project Engineer
- Superconducting RF Cavity Cryostat Engineer

Experience a must in one of the following areas:

- Design, acquisition, construction and commissioning of physics apparatus, vacuum hardware, cryogenic apparatus, superconducting magnets, precision measurement apparatus, pressure vessels and radio frequency cavities.

Qualified candidates are invited to submit resume with salary history to: Employment Manager, CEBAF, 12070 Jefferson Avenue, Newport News, VA 23606.

CEBAF

An Equal Opportunity Employer, M/F/H/V.
NEUROANATOMIST
McLean Hospital, a national leader in psychiatric care and neuroscientific research, is available for a recent graduate with an interest in pharmacology and mental disorders. Electron microscopy experience is highly desirable. Salary range: $22,406 to $25,450. Position available for 1 year, with the possibility of extension to 3 years. Send résumé and names of three references to: Dr. F. M. Bensel, Mailman Research Center, McLean Hospital, Harvard Medical School, Belmont, MA 02178. An Equal Opportunity Employer.

NEUROPHYSIOLOGIST
UNIVERSITY OF CALIFORNIA (UC) SAN DIEGO
The Division of Orthopaedics and Rehabilitation, University of California, San Diego, is seeking a full-time neurophysiologist, preferably with research experience in the area of neural control of movement. Appointment will be at the assistant or associate professor level in the in-residence series (benefits and privileges equivalent to tenure track, however, tenure not available at this time due to funding source). The successful candidate must have a Ph.D. in neurophysiology, or a closely related area, and preferably have completed 2 years of postdoctoral experience. The candidate must also have a clearly demonstrated potential to perform graduate level instruction. Level and step of appointment is commensurate with qualifications and experience. Benefits include UC pay scale, start-up budget, and a full office. The position will include (i) collaborative and independent research in neurophysiology, and (ii) graduate level basic science instruction. Send curriculum vitae and list of three references to: Richard L. Liberman, Ph.D., University of California, San Diego V-151, 3350 La Jolla Village Drive, San Diego, CA 92161. Applications must be received by 20 November 1987. Affirmative Action/Equal Opportunity Employer.

NEUROSCIENCE
UNIVERSITY OF CALIFORNIA, SANTA BARBARA
The Department of Psychology announces a TENURE-TRACK POSITION in neuroscience, effective fall 1988. Responsibilities include teaching at both under-graduate and graduate levels, and supervision of students in research. Ph.D. required at time of appointment. Postdoctoral research experience and significant skills in the structural analysis of mammalian nervous systems desired. Potential areas of interest include vision, learning, and memory. Evidence of excellence in teaching and research is required. The position is open at the assistant professor level. Submit curriculum vitae and reprints, and arrange for three letters of recommendation to: Dr. John J. Fox, Department of Psychology, University of California, Santa Barbara, CA 93106. Applications must be received by 15 November 1987. Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

NEUROSCIENTIST
FACULTY POSITIONS
Applications are invited for two tenure-track positions at the assistant professor level in the Medical Sciences Program of the Indiana University School of Medicine on the Bloomington campus. Applicants must have an earned doctoral degree with postdoctoral research training, in addition to teaching experience in the respective discipline. Undergraduate and graduate level course-requirements require establishing a strong independent research program, and participation in the program's teaching efforts and doctoral programs. Assistant Professor of Biochemistry: the preferred research interests include neurochemistry and/or molecular mechanisms of effec- tor-receptor systems. Assistant Professor of Physiolo- gy: research that involves work in cardiovascular and/or neuroscience and growth and development. Applica- tants must submit curriculum vitae, a brief description of research and teaching experience, and three letters of recommendation: Chairman, Search and Screen Commit- tee, Medical Sciences Program, Indiana University- Bloomington, 1015 W. 4th Street, Bloomington, IN 47405. Deadline for receipt of applications is 1 December 1987. An Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL POSITION immediately available for qualified M.D. or Ph.D. to study cytokine regulation; control of cachectin/TNF gene expression. Experience with techniques of molecular genetic analysis preferred. Please send curriculum vitae and letters of reference to: Dr. B. Beutler, The Howard Hughes Medical Institute, University of Texas Health Science Center, 5323 Harry Hines Boulevard, Dallas, TX 75235–9050.

POSTDOCTORAL POSITION IN NEUROBIOLOGY available immediately or within the year for a Ph.D. or M.D. Research will concern receptor-mediated ion currents, neurotransmission, and neural connectivity in the enteric nervous system. Experience with electrophysiological recording techniques is desirable, but on-site training will be done. Knowledge of the physiology and pharmacology of receptors will also be helpful. Salary will be appropriate to experience and the cost of living in the New York metropolitan area. Send curriculum vitae and the names of three references to: Dr. Michael D. Gershon Department of Anatomy and Cell Biology Columbia University College of Physicians and Surgeons 630 West 168th Street New York, NY 10032 Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the structure and biology of human autoantigens involved in regulation of cell proliferation and cell division. Current projects focus on analysis of PCNA, a subunit of DNA polymerase delta and, on human centromere-associated proteins. Applicants should have a Ph.D. degree with a strong background in molecular or cellular biology. Support available at NIH scale. Send curriculum vitae and letters of reference to: Eng M. Tan, M.D., or Kevin F. Sullivan, Ph.D., W. M. Keck Autoimmune Disease Center, Scripps Clinic and Research Foundation, 10666 North Torrey Pines Road, La Jolla, CA 92037. Scripps Clinic and Research Foundation is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available spring 1988 to investigate determinants of photocytolytic priming dimer recognition and repair and/or regulation of PHR1 gene expression in yeast. Previous experience in protein biochemistry or recombinant DNA techniques highly desirable. Send curriculum vitae and names and telephone numbers of three references to: Dr. Gwen Sancar, Department of Biochemistry, School of Medicine, CB# 7260, University of North Carolina, Chapel Hill, NC 27599–7260. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study immunological aspects of tuftsin, a natural immunomodulating peptide. Experience with various in vitro cellular immunological methods is essential. Send curriculum vitae to: Dr. Kenji Nishibata, Box 107, Surgical Research Laboratory, The University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute, Houston, TX 77030. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS (two) available immediately to develop and apply rapid-freezing electron microscopy techniques, in conjunction with time-resolved x-ray diffraction measurements, to structural studies of the mechanism of muscle contraction and other forms of cell motility. Experience in electron microscopy, x-ray diffraction, or muscle physiology desirable. Salaries up to $23,500. Send curriculum vitae and names of three references to: Dr. Hugh Huxley, Rosenstiel Center, Brandeis University, Waltham, MA 02254.

POSTDOCTORAL POSITION in molecular aspects of tumor metastasis. Candidates should have experience in experimental tumor biology or molecular biology of tumor properties, or both. To apply, send curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. Ann Chambers, London Regional Cancer Centre, 591 South Street, London, Ontario N6A 4G5, Canada.

POSTDOCTORAL ASSOCIATE

MIT's Department of Applied Biological Sciences seeks a postdoctoral associate for a research project aimed at developing improved adjuvants and novel immunization systems, with particular emphasis on applications to sub-unit vaccines, Ph.D. or M.D. degree with an immunology background.

Interested candidates should send two copies of each cover letter and resume referencing Job No. C87-236 to: Mr. Ken Hewitt, c/o MIT Personnel Office (E19-239), 77 Massachusetts Avenue, Cambridge, MA 02139.

MIT is an affirmative action/equal opportunity employer

CLINICAL SCIENTIST-MICROBIOLOGIST

The Parke-Davis Pharmaceutical Research Division has an immediate opening in the Clinical Infectious Disease group for a Clinical Scientist.

The responsibilities for this position will be to design, implement, and monitor clinical programs with antinfective agents; to write/review research reports and manuscripts; to interact with domestic and international investigators and regulatory agencies; and, to participate in Clinical Research Department administration and planning.

The requirements for this position include a Ph.D. in microbiology or equivalent, with three to five years clinical infectious disease background and research experience; industry experience preferred.

Our modern facilities located adjacent to the University of Michigan campus are devoted entirely to research. Ann Arbor provides a superb quality of life in a stimulating academic community with ready access to major metropolitan centers.

Candidates interested in joining this very active team should send resume, reference list, salary requirements, in confidence to: Ms. M. Wolin, Sr. Human Resources Representative, Parke-Davis, 2800 Plymouth Road, Ann Arbor, Michigan 48105.

WARNER LAMBERT

"EQUAL OPPORTUNITY IN ACTION"

23 October 1987
Postdoctoral Scientist
Molecular Pharmacology

The Molecular Pharmacology Department, directed by Dr. Stanley T. Crooke, at Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking a Postdoctoral Scientist to participate in isolation and characterization of receptors involved in phospholipid metabolism and characterization of pharmacological and/or biochemical agents in signal transduction.

We consider postdoctoral studies to be of major importance in an individual's career and encourage publication of findings in leading journals and full interaction with the scientific community. Our postdoctoral appointments are normally for two years duration.

The successful candidate is required to have:
- Ph.D. with 0-2 years of postdoctoral experience required.
- training in protein chemistry, receptor biology, biochemical pharmacology or equivalent molecular biological experience.
- experience and/or practical knowledge in phospholipid/Ca2+ metabolism and signal transduction mechanisms.

We offer excellent compensation and benefits and an attractive relocation policy. For confidential consideration, send your C.V. and the names of three references to Robert F. Obst, R&D Senior Employment Consultant, SmithKline Beckman Corporation, 1554 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.

Opportunities in Biotechnology

For over 25 years, we have been investing our time and resources in the future of biotechnology. Today, our investment in the field is paying off with outstanding career opportunities in this rapidly expanding field. Collaborative Research is a leader in the development, manufacture and marketing of biotechnology products and services for healthcare and industry.

**HUMAN GENETICS**
Post docs (temporary, 2 year positions)

**Scientific Computer**
Applications - We seek an individual with research interests in applications of computing to molecular genetics. Responsibilities will be to work with a mathematician/molecular biologist in developing techniques for applying linkage analysis with DNA markers to the study of quantitative traits. A PhD in Genetics, Molecular Biology, Biology or Mathematics and programming ability are essential. Experience with molecular cloning techniques is desirable.

**Molecular Geneticist** - We are also seeking a molecular geneticist with expertise in state-of-the-art molecular cloning techniques to apply to the genetics of humans and the development of medical diagnostics. The position requires a PhD in Genetics, Molecular Biology or related discipline.

**PHARMACEUTICAL R+D**
Cell Biologist - To apply innovative techniques in the expression of heterologous genes in mammalian cells as well as to do original research in cell culture. Successful candidate will serve as a vital link in our program aiding molecular biologists and fermentation engineers in the development of new strains, expression systems and medium designs. These efforts will be directed primarily towards maintaining our leadership position in plasminogen activators as well as in developing second generation thrombolytic molecules. A PhD in Cell Biology with appropriate postdoctoral experience is required.

**Biochemical Engineer** - We also seek a PhD or MS-level Biochemical Engineer with experience in yeast fermentation development. Successful candidate should possess an MS with related work experience or a recent PhD.

For consideration, please submit your CV, list of publications and the names of 3 references to the Human Resources Dept., Collaborative Research, Inc., Two Oak Park, Bedford, MA 01730. An equal opportunity employer.

Where new technologies come to life

Collaborative Research Incorporated

Coagulation Chemist

Sigma Chemical Company, a world renowned manufacturer of biochemicals and diagnostic reagents, is seeking a PhD Biochemist or Clinical Chemist to add to its coagulation staff. The successful candidate will have at least two years experience in clinical coagulation. Industrial experience in the development of diagnostic reagents preferred. Excellent opportunity for a Chemist with a desire to grow into a supervisory position. Full company paid benefits. Send resume to:

Personnel Department
Sigma Chemical Co.
3500 Dekalb
St. Louis, Missouri 63118
Equal Opportunity Employer M/F
CARDIOVASCULAR PHARMACOLOGIST

Rorer Central Research, a rapidly expanding pharmaceutical research organization, has an outstanding career opportunity for a Section Manager in our Cardiovascular Pharmacology Group, located in suburban Philadelphia.

The successful candidate will have a PhD in Pharmacology or related discipline, with 5 to 8 years experience beyond a postdoctorate. A demonstrated expertise in the area of atherosclerosis is essential.

Responsibilities will consist primarily of supervising drug discovery and development in our atherosclerosis program by introducing and developing new approaches for prevention in treatment in this therapeutic area. Management experience in a pharmaceutical setting is desired.

If you are interested in pursuing this opportunity submit a resume including salary expectations for prompt, confidential review to Barbara F. Lippmann, Rorer Central Research, 640 Allendale Rd, King Of Prussia, PA 19046. An equal opportunity employer, M /F

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VETERINARY PATHOLOGIST

Squibb Corporation, a Fortune 200 Company, is an internationally recognized leader in the research, marketing, and manufacture of innovative pharmaceuticals.

The Squibb Institute for Medical Research, located in New Brunswick, New Jersey, currently has an opportunity available in The Department of Pathology for a Veterinary Pathologist.

The candidate selected for this position will participate in the development of therapeutic agents. Responsibilities include evaluation of animal tissues from drug safety studies; research into mechanisms of toxicologic effects; and preparation of timely reports on pathology findings and interpretations for submission to worldwide regulatory agencies in support of drug applications.

We seek an individual who has demonstrated expertise in toxicologic pathology, a D.V.M., PhD and/or board certification by the American College of Veterinary Pathologists.

In addition to professional growth, we offer outstanding benefits and a competitive salary, commensurate with experience. For confidential consideration, please forward your resume including salary history to E.R. Squibb & Sons, Dept. AK/E19387, E.R. Squibb & Sons, P.O. Box 191, New Brunswick, NJ 08903. An equal opportunity employer.

SQUIBB
Where science comes to life.

Research Scientist

The Formulations Section of the Agricultural Research Division of American Cyanamid Company has an immediate opening for a protein and peptide research scientist in an Animal Health Formulations Group to develop peptide/hormone delivery systems.

Applicants should have a Ph.D. with either post-doctoral or research experience in protein chemistry. The candidate should have a strong background in either organic chemistry or pharmaceutical sciences and experience in formulations is desirable but not essential. Responsibilities include delivery system design, preformulation and stability work, and analytical method problem solving through the discovery and development of novel drug delivery systems.

American Cyanamid offers competitive salaries, benefits and a relocation package as well as opportunities for personal and professional growth. Please send resume, including salary requirements, to:
Employment Office

American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, NJ 08540
An Equal Opportunity Employer M/F/H
POSTDOCTORAL POSITIONS (two) (M.D. or Ph.D.), NIH-funded available immediately at Case Western Reserve University to study immunological detection of cartilage changes in animal models of osteoarthritis and disc degeneration (Dr. Moskowitz) and alterations in proteoglycan synthesis in human osteoarthritis (Dr. Malemud). Experience in RIA, ELISA, or gel electrophoresis desirable. Send curriculum vitae and names of references to: Roland W. Moskowitz, M.D., University Hospitals, 2073 Abington Road, Cleveland, OH 44106. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available January 1988 to study recognition of viral antigens (including HIV gene products) by T lymphocytes and monoclonal antibodies. Send curriculum vitae and letters of reference to: Drs. Jack Bennink and Jonathan Yewdell, Laboratory of Viral Diseases, NIAID, National Institutes of Health, 9000 Rockville Pike, Building 5, Room 432, Bethesda, MD 20892. Ph.D. or M.D. required. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN IMMUNOTOXICOLOGY are available immediately to characterize the effect of epoxidized soybean oil on host resistance and cell-mediated immunity. Requires a Ph.D. in a field related to immunotoxicology. Prior experience in monitoring cytokine T-lymphocyte and natural killer cell activity, and lymphokine production is desirable. Salary: $22,000 to $37,000 will be commensurate with skills and experience. Send curriculum vitae, recent reprints, and names of four references to: Dr. Sarjeeet Gill, Division of Toxicology and Physiology, University of California, Riverside, CA 92521 by 15 November 1987. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE AT THE UNIVERSITY OF CHICAGO

Postdoctoral positions available in the Trace Element Laboratory, Clinical Nutrition Research Unit, the University of Chicago. General requirements: recent doctoral degree in the appropriate field, a strong experimental background, and an interest in medical applications of trace elements. Salary range $16,000 to $24,000. Funds available for 2 to 3 years.

(i) ICP/MS—Position involves studies of ICP/MS for accurate measurement of stable isotopes of mineral (e.g., Mg) and trace elements (e.g., Se). Requirements: knowledge/experience with ICP/MS, strong experimental/theoretical background in plasma chemistry related to ICP/MS, knowledge of isotope ratio mass spectrometry.

(ii) Ti/MS—Position involves development of Ti/MS procedures for precise measurements of stable isotopes in minerals/trace elements. Requirements: strong background in Ti/MS or equivalent, understanding chemical separation procedures, and interest in biological applications.

(iii) Selenium metabolism—Position involves investigation of distribution of various forms of selenium in animal tissues. Qualifications: sound theoretical/experimental background in biochemistry as applied to Se or other trace elements, experience with chromatographic methods including HPLC, experimental background in protein separations.

All inquiries should be directed to: Dr. M. Janghobani, Department of Medicine, Box 223, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637. Telephone: 312-702-6921.

POSTDOCTORAL RESEARCH AFFILIATE—Appointment available for biochemical pharmacology/toxicology studies of cancer chemotherapeutic agents. The Research program focuses (a) on enzymatic mechanisms of bio-reductive activation of compounds that react with DNA and (b) on their cytotoxic selectivity in animals. Training or recent experience in experimental cancer chemotherapy with strong biochemistry background is desirable. Appointment is for 1 year, renewable, with competitive stipend and benefits commensurate with experience and qualifications. Curriculum vitae, summary of pertinent research experience, and names of three professional references may be sent to: Dr. Herbert S. Schwartz, Department of Experimental Therapeutics, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, NY 14263. Affirmative Action/Equal Opportunity Employer.

SENIOR R&D CHEMIST

R.J. Reynolds Tobacco Company, an affiliate of RJR Nabisco, Inc., has an immediate opening for a Senior R&D Chemist.

The primary responsibility of the successful candidate for this position will be to plan and conduct research projects employing spectroscopic techniques in the study of indoor air quality. Research facilities and equipment are state-of-the-art. Project work will be varied and will be conducted in cooperation with a multidisciplinary team of scientists with specialized knowledge of environmental and tobacco science.

This position requires a Ph.D. Degree in Analytical, Physical/Organic, or a related field of chemistry, with emphasis or experience in optical spectroscopic techniques. Specific background in laser sources, optics, and/or data treatment, as well as knowledge of IR techniques, is desirable. Additionally, experience in the application of these techniques in environmental analysis or related fields is desirable; however, outstanding candidate with specific credentials will be considered.

This position offers the opportunity for further growth and development. Salary is commensurate with ability and experience. Winston-Salem, N.C. location with an excellent benefit package. Send resume and salary history, in confidence, to: Mr. Thomas M. Brinkley, Manager, Recruiting, R.J. Reynolds Tobacco Company U.S.A., Reynolds Building, Winston-Salem, N.C. 27102.

R.J. Reynolds Tobacco Company
An Equal Opportunity Employer M/F

Research Associates

Triton Biosciences Inc., a dynamic subsidiary of Shell Oil Company, is a medical products company focused on the diagnosis and treatment of cancer and life-threatening diseases. Excellent opportunities exist for BS/MS researchers as follows:

Immunology—Requires 3-5 years experience in immunological research. Should have experience in cell culture, production of monoclonal antibodies, ELISA and other immunoassays and transfections. Refer to Job BL-10.

Virology—Should have 3+ years experience in mammalian cell culture, virus propagation and viability assays. Refer to Job AT-12.

Immunodiagnostics—Will help develop new cancer assays. Requires experience in immunoassay development and familiarity with monoclonal antibody production. Refer to Job BB-14.

Triton offers competitive salary and benefits including relocation assistance. Please forward c/v to: Triton Biosciences Inc., Attn: Employee Relations, 1501 Harbor Bay Parkway, Alameda, CA 94501. An equal opportunity employer.
DIRECTOR MOLECULAR BIOLOGY

BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., is a major researcher, developer, manufacturer and marketer of prescription and over-the-counter drugs located in DANBURY, CT. We have an opening for a Director of Molecular Biology to manage the research and development efforts of the scientific staff of the Department of Molecular Biology in the discovery of candidates for development of new drugs, and to perform studies needed to register and market drugs.

The individual we seek has a Ph.D. degree in Biochemistry and Molecular Biology with ten years relevant research experience, three of which were as a Senior Manager in a research position. You should also have an excellent publication record and the proven ability to recruit, train, motivate and retain a scientific staff.

We offer competitive salary and benefits and an innovative vacation package.

Please forward your resume including salary requirements and history to: Box CEC-18, R&D, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, P.O. Box 368, Ridgefield, CT 06877. An equal opportunity employer m/f/h/v.

SYNTHETIC ORGANIC CHEMISTS (BS/MS)

Research In Cardiovascular Diseases and Cancer

Discover the opportunity that awaits you at our Wallingford, Connecticut Research Center: synthesizing new compounds for biological evaluation as agents in the treatment of cardiovascular diseases and cancer. Explore the possibilities presented by synthesis and purification of target molecules and intermediates, as you determine physical constants, obtain spectral data, conduct literature searches, evaluate laboratory data and write reports.

Qualifications include laboratory experience in modern spectroscopic and experimental techniques and preparative chromatography, along with a working knowledge of synthetic organic chemistry.

BRISTOL-MYERS offers sustained growth, highly competitive salaries, extensive benefits and career support. Our countryside location is convenient to New Haven and Hartford, Connecticut, New York City and New England. Please send resume with salary history to: BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: T22, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492.

An equal opportunity employer.

REGIONAL BONE CENTER

The Regional Bone Center at Helen Hayes Hospital, a Columbia University affiliate, is a national center for the study of osteoporosis funded through Health Research, Inc., by the NIH as a Specialized Center of Research (SCOR)--Robert Lindsay, M.B., Ph.D., Principal Investigator. Openings exist for scientific staff at the post-graduate/documented and technical levels.

POSTDOCTORAL POSITIONS (Ph.D./M.D.)

Cell Biologist: To study the origin, mode of action, and regulation of the osteoclast. Experience in either bone cell biology, biochemistry, hematology, or immunology would be advantageous. (Project Director: David W. Dempster, Ph.D.)

Histomorphometrist: Master's or postdoctoral fellow to do histomorphometric studies of bone biopsies from experimental animals and patients with osteoporosis. Selected candidate will receive training in bone histomorphometry, but experience in quantitative microscopy would be an advantage. (Project Director: David W. Dempster, Ph.D.)

Molecular Biologist: To study molecular aspects of vitamin D and parathyroid hormone actions in skeletal tissues. Training in RNA/DNA isolation, Northern analysis, and preparation of gene libraries is preferred. (Project Director: Thomas L. Clemens, Ph.D.)

TECHNICAL SPECIALISTS (B.S./M.S.)

Senior Laboratory Technician: Several positions are available for persons skilled in histology, radiocommunication, cell culture, or with interest in bone mass measurement.

Helen Hayes Hospital has easy access to NYC. Appointments carry competitive salaries and benefits. Send curriculum vitae to:

Helen Hayes Hospital
Human Resources
Route 9W
West Haverstraw, NY 10993

An equal opportunity/affirmative action employer of the New York State Health Department.
POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to study the survival of genetically engineered bacteria in aquatic biofilms. Background in bacterial physiology, polymer chemistry, or molecular biology preferred. Salary negotiable. For best consideration, please send curriculum vitae and names of three references by 15 November 1987 to:

Dr. Madelyn Fletcher
Center of Marine Biotechnology
University of Maryland
600 East Lombard Street
Baltimore, MD 21201
Telephone: 301-783-4007

The University of Maryland is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Ph.D. in biochemistry or neurochemistry with 0 to 3 years of experience. Research will focus on regulation of membrane asymmetry in response to ethanol in vitro and in vivo. Experience in biochemical, cell culture, and genetic techniques. Salary negotiable. Send curriculum vitae, along with names of three references, to: W. Gibson Wood, Ph.D., Department of Pharmacology, GRECC, 111G-JB, St. Joseph, MO 64007.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to study the biochemical basis and physiological significance of human alpha-fetoprotein microheterogeneity and the relationships between AFP biochemistry and the diagnosis of birth defects and cancer. Candidates should have a recent Ph.D. in physiology, biochemistry, or related disciplines. Experience in molecular biology techniques required. Send curriculum vitae and names of three references to: Dr. Brooks A. Keel, Scientific Director, The Women's Research Institute, 2212 East Main Street, KS 67204.

POSTDOCTORAL RESEARCH ASSOCIATE

Available immediately to study fate of genetically engineered microorganisms in soils. Experience in molecular biology techniques required; study will involve construction of novel genotypes; experience in microbial ecology also desirable. Send curriculum vitae and names of three references to: Dr. Ronald M. Atlas, Department of Biology, University of Louisville, Louisville, KY 40292. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—Position available for an electrophysiologist to characterize the properties of central axons which have regenerat ed along peripheral nerve implants. Preference given to applicants experienced in spinal cord physiology and/or tract-tracing, and histological techniques. Please send curriculum vitae with names of three references to: Dr. Julius R. Teresi, Microbiological Research Center, Eastern Virginia Medical School, 700 Olney Road, Norfolk, VA 23507.

POSTDOCTORAL RESEARCH POSITION available immediately to study role of mammalian somatosensory transmission. Application for postdoctoral position available to Ph.D. or M.D. to study biochemistry of delayed hypersensitivity and chronic inflammation. Experience in protein biochemistry, recombinant DNA technology, and cell culture and histological techniques. Send curriculum vitae and names of three references to: Dr. G. L. Williams, Beef Cattle Reproduction Laboratory, Texas A&M University Agricultural Research Station, HCB-3, Box 43-C, College Station, TX 77810.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available to work on the genetic modification of lignin biosynthesis in pine. Experience with gene isolation, protein purification, or DNA transfer is necessary. To apply, send curriculum vitae and names of three references before 1 December 1987 to: R. Sederoff, Department of Forestry, North Carolina State University, Raleigh, NC 27695. Telephone: 919-737-2891 or 415-486-3308 for more information.

The University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Trained epidemiologist with 1 to 3 years of experience to work with multidisciplinary research group involved in large-scale studies of air pollution and respiratory health. Experience in design and development of field data being collected in children from over 20 different locations and involved in the analysis of data previously collected in 20,000 adults and children.

Opportunities to explore various databases that include indoor and outdoor exposure, time-related changes in symptoms and respiratory function, and other personal risk factors and disease outcomes. Excellent training and growth opportunities for subsequent academic position. To apply, send curriculum vitae to: Dr. Frank Speizer, Department of Environmental Science and Physiology, Harvard School of Public Health, 607 Huntington Ave., Boston, MA 02215.

Experiences of interest are particularly invited from women and minority candidates.

POSTDOCTORAL RESEARCHER (ANTICIPATED).

Aquatic toxicology/pharmacology. Recent Ph.D. in toxicology, pharmacology, biochemistry, or related science with experience in aquatic toxicology. Experience in methods related to pharmacokinetic analysis, metabolism, and distribution of xenobiotics in fish are highly desirable. The project is a collaborative study with Dr. Kevin Kleinow, Department of Environmental Science and Physiology, University of Wisconsin. Send curriculum vitae and names of three references by 15 November 1987 to: Dr. Kevin Kleinow, Department of Environmental Science and Physiology, University of Wisconsin, Madison, WI 53706.

POSTDOCTORAL RESEARCHER

Recent Ph.D. in biochemistry, chemistry, or related science with experience in drug metabolism. Experience in methods development, in-vitro and in-vivo receptor characterization, isolation, and identification essential. Responsibilities include super-vision of contract research on drug metabolism and identification in the equiv. Submit resume by 15 November 1987 to: Dr. Kevin Kleinow, Department of Veterinary Physiology, Pharmacology and Toxicology, School of Veterinary Medicine, Baton Rouge, LA 70803. L.S.U. is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCHER

Recent Ph.D. in biochemistry, chemistry, or related science with experience in drug metabolism. Experience in methods development, in-vitro and in-vivo receptor characterization, isolation, and identification essential. Responsibilities include supervision of contract research on drug metabolism and identification in the equiv. Submit resume by 15 November 1987 to: Dr. Kevin Kleinow, Department of Veterinary Physiology, Pharmacology and Toxicology, School of Veterinary Medicine, Baton Rouge, LA 70803. L.S.U. is an Equal Opportunity Employer.

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POSTDOCTORAL TRAINING IN CLINICAL CHEMISTRY

Position available 1 July 1988, for basic scientist or physician interested in a career as laboratory director in academic laboratory Medicine. Our 2-year program provides practical experience in clinical chemistry laboratories and extends relevant basic scientific knowledge. Deadline: 1 December 1987. Write to: Margaret Kenny, Ph.D., Program Director, Department of Laboratory Medicine, University of Washington, Seattle, WA 98195. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT PROFESSOR/RESEARCH FELLOW

Application is invited for a position as Ph.D. or M.D. to study biochemistry of delayed hypersensitivity and chronic inflammation. Experience in protein biochemistry, recombinant DNA technology, and cell culture and histological techniques. Send curriculum vitae and names of three references to: Dr. H. P. Godfrey, Department of Pathology, New York Medical College, 333333 West 277th Street, Val-halla, NY 10595. Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR/RESEARCH FELLOW

Application is invited for a position as Ph.D. or M.D. to study biochemistry of delayed hypersensitivity and chronic inflammation. Experience in protein biochemistry, recombinant DNA technology, and cell culture and histological techniques. Send curriculum vitae and names of three references to: Dr. H. P. Godfrey, Department of Pathology, New York Medical College, 333333 West 277th Street, Val-halla, NY 10595. Equal Opportunity Employer.

RESEARCH ASSOCIATE

Collaborate with NIH-funded studies of humoral factor(s) affecting cell ion transport and growth in hypertension [see A/P 481, 489]. Application is invited in biochemistry, pharmacology, or cell biology with postdoc-toral training. Experience with cell culture and with chromatographic procedures including HPLC, necessary. Beginning salary $30,000 to $33,000. Send curriculum vitae to: H. W. Overbeek, M.D., Ph.D., Departments of Medicine and Physiology, University of California, San Diego, California 92121. Application closes 15 February 1988. An Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

RESEARCH ASSOCIATE IN MOLECULAR GENETICS: Requirements Ph.D., 3 years of postdoctoral experience in molecular and microbial genetics. Primary responsibilities: teaching experimental techniques to graduate students and fellows, and collaborative research. Please send applications and curriculum vitae to: JoAnn Olsen, 502 PCTB, Johns Hopkins University School of Medicine, 735 North Wolfe Street, Baltimore, MD 21205. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY OF MACROMOLECULES

RESEARCH ASSOCIATE POSITIONS are available to study the role of macromolecular interactions in the regulation of enzyme catalysis (pyruvate kinase and phosphofructokinase) and gene expression (E. coli cyclic AMP-binding protein). Successful candidates should be highly motivated, creative, and independent individuals. A background in biochemistry or molecular biology is desirable. Send curriculum vitae and names of three references to:

Dr. James C. Lee
Department of Biochemistry
St. Louis University
School of Medicine
1402 South Grand Boulevard
St. Louis, MO 63104

RESEARCH ASSOCIATE

Position open for POSTDOCTORAL FELLOW to study systemic and renal hemodynamics and changes in vasoactive humoral substances before and after altered dialyzer nutrition. This position is for 2 years of support. Salary is negotiable. Closing date 27 November 1987. Submit curriculum vitae to: Edward T. Zawada, M.D., Professor and Chairman, Department of Medicine, University of South Dakota, School of Medicine, 2501 West 22nd Street, Sioux Falls, SD 57105.

RESEARCH ASSOCIATE—B.S. OR M.S.

Research associate wanted to conduct studies on cancer formation in rat models, using light microscopy and analytical electron microscopy for morphological and enzyme histochemical analysis of lens tissue. Minimal requirements include a bachelor's degree with experience in tissue processing, thin sectioning, transmission electron microscopy, and photomicrography. Funding of the project assured until 30 June 1990. Salary commensurate with experience and qualifications. Send curriculum vitae and three references with telephone numbers by 16 November 1987 to:

Dr. Willis Gorothy
Department of Anatomy and Neurobiology
Colorado State University
Fort Collins, CO 80523

An Equal Opportunity/Affirmative Action Employer.

RESEARCH FELLOW—Research position is now available for a molecular biologist, trained in eukaryotic recombinant DNA technology, to study expression of growth factors and oncoproteins by normal and neoplastic bone tissue and cells. Additional experience in tissue culture, protein biochemistry, and HPLC analysis preferred. Initial commitment of 3 years is required. Send resume and three references to: Dr. Josef F. Novak, Orthopedic Research Laboratory, Allegheny General Hospital, 3737 West Street, Pittsburgh, PA 15212. An Equal Opportunity Employer.

RESEARCHER/RESEARCH ASSOCIATE SOUTHERN ILLINOIS UNIVERSITY (SIU) SCHOOL OF MEDICINE

GASTROENTEROLOGY: The Department of Internal Medicine is recruiting a research position involving scientific and technical support in physiologic, biochemical, and pharmacologic aspects of research projects and clinical service in the area of gastrointestinal diseases. Minimum qualifications are an M.S./M.A. with 2 years of laboratory experience. Preference will be given to candidates with a Ph.D. and/or background in the areas of physiology, biochemistry, or pharmacology. Closing date on this position is 20 November 1987, or until the position is filled. Resumes should be sent to: Steven R. Ferrigo, Administrator, Department of Internal Medicine, SIU School of Medicine, P.O. Box 19230, Springfield, IL 62794-9230. SIU School of Medicine is an Affirmative Action/Equal Opportunity Employer.

U.S. DEPARTMENT OF ENERGY
OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH

Alexander Hollaender
DISTINGUISHED POSTDOCTORAL FELLOWSHIP PROGRAM

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Hollaender Postdoctoral Fellowships
University Programs Division

OAK RIDGE ASSOCIATED UNIVERSETIES P.O. BOX 167
OAK RIDGE, TN 37831-0117
(615) 576-3190

Deadline January 19, 1988

SCIENTIFIC EXCHANGES

NAS Scientific Exchange Program with the U.S.S.R. and Eastern Europe

The National Academy of Sciences (NAS) invites applications from American scientists who wish to make visits beginning during the period September 1, 1987 through December 31, 1988 to the U.S.S.R., Bulgaria, Czechoslovakia, the German Democratic Republic, Hungary, Poland, Romania, and Yugoslavia. Long-term research visits of 3 to 12 months duration are encouraged, particularly if contact with colleagues in the other country has already been established. The minimum length of visits is 1 month in one country.

Applicants must be U.S. citizens and have a doctoral degree or its equivalent by June 1987 in physics, chemistry, mathematics and computer sciences, earth, atmospheric, and oceanographic sciences, agricultural, forestry, fishery, and plant sciences, biological and medical sciences, environmental sciences, engineering, archaeology and anthropology, geography, or psychology. Also included are science and technology policy studies and other aspects of the economic and social sciences that involve quantitative analysis. Other scientific disciplines not explicitly mentioned will be considered on a case-by-case basis. Necessary expenses will be met by the NAS and the foreign academy, including reimbursement for long-term visitors for salary lost up to a predetermined maximum and expenses for accompanying family members for visits exceeding 5 months.

Requests for applications should reach the National Academy of Sciences not later than February 13, 1987. Application must be postmarked by February 28, 1987. Address application requests to:

National Academy of Sciences
Office of International Affairs
Soviet and East European Affairs (H-218)
2101 Constitution Avenue, NW
Washington, D.C. 20418
Telephone: (202) 334-2844

Molecular Biology Research

An opportunity exists at The Upjohn Company for a Biochemistry Associate in the Reproduction and Growth Physiology Group. The individual will be an interactive member of a research team investigating the action of hepatic and adipose tissue growth factor-1. Experience in experimental design and data interpretation, specifically lipogenic proteins, by somatotropin and insulin-like growth factor-1. The candidate should possess an M.S. degree or B.S. degree plus a minimum of 3 years experience in biological sciences from which laboratory and literature skills in molecular biology were acquired. The candidate must have experience with Northern and Southern hybridization, and DNA sequencing procedures. Experience with cDNA and genomic library construction and screening is desirable. In addition, the candidate should have demonstrated skills in experimental design and data interpretation, and will be responsible for presentations and publications.

Kalamazoo is located in southwestern Michigan midway between Chicago and Detroit and offers varied cultural events, cosmopolitan shopping and entertainment, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers advancement opportunities, a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-8600, ext. 3-6767, (inside Michigan call collect 616/233-6787) to request an employment application be sent to you immediately. Please refer to position number 21860-A when calling.

Upjohn

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23 OCTOBER 1987
**POSITIONS OPEN**

**RESEARCH ASSOCIATE:** Two positions available immediately for initially 3 years to study the expression and structure of genes from heme-utilizing parasites in different vector systems (two positions) and to further develop and modify malaria specific DNA probes (one position). Applicants should have a strong background in recombinant DNA technology. Starting salary: U.S. $32,000 per year. Please send curriculum vitae and one reprint to: Dr. J. Werner Zolg, Department of Molecular Biology, Biomedical, and Chemical Sciences, Emory University, 1523 Clifton Road, Atlanta, GA 30322.

**RESEARCH POSITION** in biomedical engineering available for basic and clinical research on bone density utilizing quantitative computerized tomography (QCT), dual photon, and bone scan techniques. Candidate will have the opportunity to collaborate with large multidisciplinary laboratory focusing on bone and mineral metabolism. Interested parties must have a Ph.D. Bioengineering or allied field. Experience in bone density desirable but not necessary. Salary competitive. Potential postdoctoral fellows or research assistant professors are invited to apply. Send curriculum vitae and two letters of reference to: Dr. Donald Sauser, Radiology Department, Loma Linda University, Loma Linda, CA 92354.

**RESEARCH SCIENTIST:** Direct laboratory conducting on the relationships of immunological parameters to autoantibodies and erythrocyte complement receptor with specific emphasis on collagen vascular diseases and AIDS. Apply advanced knowledge and sophisticated technical skills in: (i) lymphocyte assays, gel electrophoresis and blotting, and; (ii) identification, purification, and measurement of biological proteins. Recruit outstanding postdoctoral or research assistant professors are invited to apply. Send curriculum vitae and two letters of reference to: Dr. Donald Sauser, Radiology Department, Loma Linda University, Loma Linda, CA 92354.

**SENIOR IMMUNOCHEMISTRY/ TECHNICAL CHEMIST** in San Francisco Bay area biotechnology company developing novel medical diagnostic and therapeutic products for attherosclerosis and autoimmune diseases seeks candidates for the position of senior immunologist or protein chemist. Needed to characterize epitope map of various antigens associated with autoimmune diseases. Must have expertise in protein chemistry, purification, and sequencing. Working knowledge of and/or experience in polycarbonate, polychloride chemistry, cDNA, peptide synthesis, and monoclonal antibodies also desirable. Candidates with hands-on experience preferred. Some vacation days, all major holidays, and reimbursement of work-related expenses provided. Interest in publishing and other academic interactions desirable, but not mandatory.

Competitive salaries, benefits, and equity participation. Please send curriculum vitae in confidence to: Personnel Director, Vascoor, 2438 Wyandotte Street, Suite C, Mountain View, CA 94043.

**SENIOR SCIENTIST ELECTROPHORESIS**

Start-up company developing innovative technologies for electrophoresis is seeking a biochemist or analytical chemist, direct scientific aspects of research and development. Must have Ph.D. and publications on electrophoretic techniques. Based in San Francisco bay area. Send resume with names of three references to: Personnel Director, Bio-Rad Laboratories, 230 Santa Aana Court, Sunnyvale, CA 94086.
Lilly Research Laboratories
Postdoctoral Scientist Program
Eli Lilly and Company

THE LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is offering postdoctoral research opportunities in several areas of biology, pharmacology, and chemistry. Postdoctoral Scientists will work in close association with Lilly scientists who are involved in the basic research process of drug discovery. Publication and presentation of results will be an integral part of the program. This postdoctoral experience is designed to give individuals in-depth research training in a focused area of biology and/or chemistry. The program will also provide an opportunity to become acquainted with the drug development process within the pharmaceutical industry. Postdoctoral Scientists will be expected to participate fully in the conceptual and design phases of projects, within the following areas:

Biochemical Toxicology Research
The postdoctoral scientist will study changes in hepatic lipid metabolism induced by peroxisome proliferating agents and other chemicals. The research will examine the role of mitochondrial and peroxisomal metabolism in the development and regression of fatty changes in the liver and the relevance of changes in lipid metabolism to the genesis of peroxisome proliferation. Candidates should have training in biochemistry, pharmacology, or related discipline and experience in lipid metabolism.

Molecular and Cell Biology Research
The postdoctoral scientist will join a laboratory studying eucaryotic gene regulation and conduct basic research on the expression, intracellular processing and secretion of recombinant proteins in mammalian cells. Training in molecular biology, cell biology or biochemistry is required. The scientist will combine molecular and biochemical approaches to understand the sequence of events from the expression of a gene to the secretion of its product.

Molecular Genetics Research
The postdoctoral scientist will join an active program in Streptomyces molecular genetics research focused on the cloning and expression of antibiotic biosynthetic genes. The project will include the development of transposable elements and bacteriophage vectors to genetically manipulate streptomycetes and related actinomycetes.

Muscle Metabolism Research
Scientists with training in muscle growth, muscle physiology, and molecular biology will perform basic research on the regulation and control of skeletal muscle protein synthesis and degradation. A strong background in biochemistry and molecular biology is desirable.

Peptide Engineering Research
The postdoctoral scientist will participate in a synthetic program directed at delineating the structural features of insulin which dictate its various biological properties. The scientist will receive extensive training in the chemical synthesis, semisynthesis, and biosynthesis of insulin and related substances. Prior experience in some aspect of peptide synthesis, purification and characterization is desirable.

Protein Glycosylation Research
The postdoctoral scientist will use nuclear magnetic resonance spectroscopy to evaluate glycan distribution of glycosylated proteins and to pursue other structural questions relating to protein carbohydrates. The scientist will collaborate with researchers involved in the structure elucidation of a wide variety of natural products of pharmaceutical interest. Experience in applying one- and two-dimensional NMR techniques in studies of glyco-protein carbohydrates is required.

Recombinant Protein Research
The postdoctoral scientist will study the enzymatic cleavage of proteins produced by recombinant DNA technology with the goal of obtaining desired protein products. The scientist must have a strong background in enzyme kinetics and protein chemistry and will have the opportunity to gain experience in enzyme immobilization, protein sequencing, and molecular biology.

Postdoctoral appointments are of one-year duration and are renewable for a second year with mutual agreement. Candidates with no more than one previous postdoctoral experience are encouraged to apply.

Eli Lilly and Company will provide a comprehensive pay and benefits program including relocation expenses. Qualified applicants should send their current curriculum vitae, indicating program of interest to:

John W. Crooks
Manager, College Relations (PSP)3
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

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