Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Any display in ad must be at least 2 weeks after date of issue in which ad appears. Also, personal advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, marital status, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish a particular advertisement.

LINE CLASSIFIED ADVERTISING DEADLINES:

Thursday, 10 a.m., 2 weeks prior to issue date (mail order, display advertising, please contact Scherago Associates).

POSITIONS WANTED:

40¢ per word, plus $4 for use of box number, per week, $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so on)...

$38.00 per line, $380.00 minimum per week. (minimum charge covers one inch on a single column; one inch equals one column in all sizes). Line ads require a box number. No charge for use of box number. No agency commission for ads less than 4 lines. No cash discount.

Prepayment required for all foreign ads. Purchase orders accepted. Using billing address required for all other advertising.

To ESTIMATE ad cost:

Structure ad copy on a separate page, on lines of 52 characters and spaces only and headlined: Heading. Each line of heading, and/or extra line spaces, and all paper lines (including column and display advertising) are counted as full lines. Ad titles located within the text are printed as bold face type and are only 32 characters per line. In ESTIMATING the cost, multiply total lines x $38.00 = approximate cost of ad. This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and the resulting text length, before doing cost estimates. For some degree of flexibility and/or adjustment.

CANCELLATION POLICY:

No cancellation before made after Thursday. TWO weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, ONE week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/8 page in size (39 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 400
Washington, DC 20005
Telephone: 202-326-6555

Send copy for Fractional Display ads, 1/8 page and larger, and all Marketplace ads to:

Scherago Associates, Inc.
524 Fourth Street
New York, NY 10012

Blank ad replies should be addressed as follows:

Box (give number)
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Immunologist, Ph.D. with a proven record in immunosuppression and protein purification. Currently employed at a reputable international research organization. Seeking a challenging position in research and development. Box 147.


Ph.D. Analytical biochemistry/microbiologist/immunologist solid experience with GC-MS, ECD, FID, methods development, LC, PAGE. Seeks industrial, academic position. Box 138, SCIENCE.

Science Writer/Editor seeks editorial position with major publishing firm, journal or magazine. Doctorate in life science; extensive knowledge of science, medicine, technology. Experiences: SPIN, other newspapers, magazines, television. Recent AAAS Mass Media Fellow. Box 154, SCIENCE.

Surgon/Ph.D. Foreign experienced surgeon. microsurgeon, American Ph.D. in cell biology. Experienced cardiac research: ischemic damage, nucleotide metabolism substrate utilization, free radical. Isolated perfused working heart, myocardial isolation, transplantation. Big, small animal surgery. Seeks postdoctoral position. 1519 1/2 Blair Avenue, St. Paul, MN 55104.

Toxicologist, Consulting: Board certified Toxicologist; Ph.D. biochemistry; R&D, product evaluation, literature analysis, health hazard and risk assessment, occupational and environmental regulations, science/legal interface, environmental and communication skills. Box 157, SCIENCE.

Positions Open

Company needs applicant with Ph.D. degree in chemistry and welding and analysis expertise. Offer includes computer knowledge and having computer courses in college. Will be an ANALYTICAL SPECIALIST to diversity polymer testing and evaluation by physical, chemical, and spectroscopic methods; to do material characterization by differential thermal analysis (DTA), differential scanning calorimetry (DSC), and x-ray diffraction techniques to transform infrared spectrometry (FTIR), gas chromatography (GC), and high performance liquid chromatography (HPLC); and to develop computer software for spectroscopic data treatment. Forty-hour week, $27,200 per year, in St. Louis, Missouri, area. Send resume to: Connerdale Walker, Division of General Equipment Security, 505 Washington, St. Louis, MO 63101, re: Job #205643.

ASSISTANT PROFESSOR. Anticipated tenure-track position to teach comparative vertebrate anatomy and ecology, as well as graduate courses in specialty. Ability to teach ichthyology desirable. Ph.D. and pursuit of an active research program required. Appointment date: August 1989. Send curriculum vitae, reprints, summary of research plans, and three letters of recommendation by 30 November 1988 to: Dr. Mark Wygodzinsky, Comparative Anatomy Serologist, Department of Biological and Environmental Sciences, P.O. Box 92000, McNeese State University, Lake Charles, LA 70609. McNeese State University is an Equal Opportunity Employer.

Biocenologist, Ph.D. (1978). Extensive teaching experience in medical and graduate students. Principle investigator of a study on sickle cell anemia, and other related disorders in non-American population. Currently principle investigator in a study designed to evaluate a newly developed antischickling agent. Good publications. Strong collaborative ties with international academic and research institutions in academic or clinical research position. Box 153, SCIENCE.

Immunologist, Ph.D. Specialist in cellular immunology, hybridomas, monoclonal antibodies, and lympho- poiesis. Seeking position in industrial or academic laboratory investigating immunological approach to human disease. Excellent background and references. Box 143, SCIENCE.

SCIENCE, VOL. 242
ANATOMY, PROFESSOR AND CHAIRMAN

The Indiana University School of Medicine invites applications or nominations for the Chair of the Department of Anatomy, Professor and Chair of one of the professional and graduate education in anatomy and research programs within the department. The successful candidate will be an experienced educator with multiple years of experience in teaching anatomy at all phases of the department and in collaboration with programs throughout Indiana University. We are particularly interested in candidates who have an outstanding record of achievement as a teacher and active research program, which are committed to modern approaches to teaching anatomical sciences, and who have administrative strengths. Research areas of interest include embryological development and molecular/cellular biology. However, candidates specializing in other areas will be considered. Candidates are requested to submit curriculum vitae and names and addresses of three references to: Rodney A. Rhoades, Ph.D., Chairman, Anatomy Search Committee, Foster Medical Sciences Center, Indiana University School of Medicine, Indianapolis, IN 46223. Inquiries or nominations may also be made by telephone: 317-274-7772. This is a tenured-tenure-track position depending on candidate qualifications. Screening of applications will begin 1 November 1988.

Indiana University is an Equal Opportunity Employer, M/F.

ASSISTANT DIRECTOR MICROSURGICAL LABORATORIES

MCGILL UNIVERSITY DEPARTMENT OF SURGERY

The Microsurgical Research Laboratories invites applications for a 12-month tenure-track position as assistant professor of surgery. The candidate will run his/her independent research program, direct day-to-day activities of the laboratory, and be committed to collaborative work with two clinician/researchers and a Ph.D. physician in studies of microcirculation, tissue ischemia, and electrical injuries. The researcher will be expected to gain external funding and cross appointment in a basic science department of the Medical Faculty of McGill University. Salary: $30,000 (under review). Send statements of research interests, curriculum vitae, and three letters of recommendation to: Carolyn L. Kerrigan, M.D., McGill University, Division of Plastic Surgery, Royal Victoria Hospital, 687 Pine Avenues West, Montreal, Quebec H3A 1A1. In accordance with Canadian immigration requirements, consideration, in the first instance, will be given to Canadian citizens and permanent residents of Canada. Others are encouraged to apply and will be considered.

ASSISTANT PROFESSOR

M. D. ANDERSON CANCER CENTER

A position is available immediately to join a laboratory investigating the interaction of normal and transformed tissues. Applicants should have a recent Ph.D. in molecular biology with a strong background in recombinant DNA technology. The successful candidate will be expected to join a research faculty on the faculty level. Applicants should have a strong commitment to teaching and to collaborative research with staff. The position is open to both before and after December 31, 1988. Send curriculum vitae, three letters of recommendation to: Dr. Jack A. Roth, M. D. Anderson Hospital and Tumor Institute, Box 109, 1515 Holcombe Boulevard, Houston, TX 77030. An Equal Opportunity/Affirmative Action Employer.

Assistant professor position in the Department of Anatomy and Molecular Biophysics. Applicants should hold a doctoral degree, have training in molecular biology, and should have a defined research interest in eukaryotic cell growth control and/or modulation of DNA structure and function. The successful candidate will have a central role in the rapidly expanding Cancer Biology Program within the Massey Cancer Center at the Medical College of Virginia. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Send curriculum vitae and three references to: Rupert Schmidt-Ulrich, M.D., Chairman, Search Committee Medical College of Virginia Department of Anatomy and Molecular Biophysics MCV Station Box 58 Richmond, VA 23298-0058

ASSISTANT PROFESSOR, tenure-track, with expertise in cellular and molecular biology, beginning fall 1989. Ph.D. in cancer biology or related field required. The successful candidate will be expected to supervise undergraduate research and teach in the new cancer biology course. The successful candidate will be expected to be involved in national research and to have a commitment to teaching. Candidates are also expected to have a strong commitment to diversity in the teaching and research missions of the department. Salary competitive. Send curriculum vitae, three letters of recommendation and a statement of research interests to: Dr. Maryann P. O’Hara, Department of Cellular and Molecular Biology, 6225. 4th Avenue S.W., Seattle, WA 98104. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, tenure-track, with expertise in cellular and molecular biology, beginning fall 1989. Ph.D. in cancer biology or related field required. The successful candidate will be expected to supervise undergraduate research and teach in the new cancer biology course. The successful candidate will be expected to be involved in national research and to have a commitment to teaching. Candidates are also expected to have a strong commitment to diversity in the teaching and research missions of the department. Salary competitive. Send curriculum vitae, three letters of recommendation and a statement of research interests to: Dr. Maryann P. O’Hara, Department of Cellular and Molecular Biology, 6225. 4th Avenue S.W., Seattle, WA 98104. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR


ASSISTANT PROFESSOR

 tenure-level position available in the research laboratories of the Department of Neurology, Columbia University College of Physicians and Surgeons, for the study of brain immaturity on epilepsygenesis. Requirements include M.D. or Ph.D., expertise in cellular neurobiology, and capability for independent grant support. Preference given to candidates with experience in developmental neurobiology and prior research related to epilepsy. Inquiries and applications should be directed to: Dr. Thomas A. Pedley, The Neurological Institute, 710 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity Employer.

HARVARD MEDICAL SCHOOL DEPARTMENT OF GENETICS

The Department of Genetics at Harvard Medical School, under the leadership of Dr. James Leder, is interested in seeking an Assistant Professor at the tenure-track level. Applicants should have a Ph.D. or M.D. and a strong commitment to research in genetics. The successful candidate will have a central role in the rapidly expanding Cancer Biology Program within the Massey Cancer Center at the Medical College of Virginia. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Send curriculum vitae and three letters of recommendation to: Dr. John A. Roth, M.D. Anderson Hospital and Tumor Institute, Box 109, 1515 Holcombe Boulevard, Houston, TX 77030. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

MICROBIAL GENETICIST/ MOLECULAR BIOLOGIST

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

The Department of Biological Sciences, University of Southern Mississippi, invites applications for a tenure-track position at the assistant professor level. Applicants may have research interests in any area of microbial genetics or molecular biology of microorganisms. The successful candidate will be expected to develop a vigorous, independent research program. Teaching responsibilities will include a course in microbial genetics and an additional course in molecular biology or microbiology. Candidates should submit a statement of research interests, curriculum vitae, and names of three references. Applications will be accepted until 15 November 1988, and should be sent to: Dr. W. L. Middlebrooks Department of Biological Sciences, SS Box 5153 University of Southern Mississippi Hattiesburg, MS 33940–5183 An Affective Action/Affirmative Action Employer.

The Department of Chemistry, Philadelphia College of Pharmacy and Science, invites applications for a full-time, tenure-track faculty position at the assistant professor level, starting August 1989. We seek a candidate who will be able to establish an active, productive research program and provide outstanding contributions in teaching and graduate programs. Applicants in the areas of biochemistry or molecular biology are preferred, although exceptional candidates from other areas of chemistry will also be considered.

The Philadelphia College of Pharmacy and Science is an independent, co-educational institution with 1,500 students, and offers M.S. and Ph.D. degrees in pharmacy sciences, 120 full-time faculty, and 60 graduate students. The Department of Chemistry has 14 faculty members and offers ACS approved undergraduate degrees in chemistry and biochemistry. Graduate programs lead to the M.S. and Ph.D. degrees in medicinal and pharmaceutical sciences, and may involve interdisciplinary research with the Department of Biology, Pharmacology and Toxicology, and Pharmaceutics.

Applications should consist of curriculum vitae, a brief statement of teaching experience and interests, and a description of research projects that should also arrange to have undergraduate and graduate transcripts, and at least three letters of recommendation, sent by 15 November 1988 to:

Dr. Peter Campbell Chair, Faculty Search Committee Philadelphia College of Pharmacy and Science Woodland Avenue at 43rd Street Philadelphia, PA 19104 Telephone: (215) 672-8399 Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR IN BEHAVIORAL NEUROSCIENCE/Learning. A regular, tenure-track appointment at the assistant professor level beginning September 1989. Candidates must be able to establish a strong research program and must have a strong commitment to teaching. Supervision of both graduate and undergraduate research will be expected. Teaching responsibilities will include an undergraduate laboratory course in learning as well as both graduate and undergraduate courses in learning theory. Dartmouth College is an Equal Opportunity Employer with an Affective Action plan. Women and members of minority groups are encouraged to apply. Send a letter of application and curriculum vitae and have at least three letters of recommendation sent by 1 January 1989 to: Professor Campbell, Department of Psychology, Dartmouth College, Hanover, NH 03755.

ASSISTANT PROFESSOR POSITIONS

DUKE UNIVERSITY MEDICAL CENTER

SECTION OF CELL GROWTH, REGULATION, AND ONCOGENESIS DUKE COMPREHENSIVE CANCER CENTER

Duke University Comprehensive Cancer Center invites applications for tenure-track positions in a new Section of Cell Growth, Regulation, and Oncogenesis at the level of assistant professor. Investigators working at the molecular level in any area of cancer biology are encouraged to apply, but special consideration will be given to those working in the areas of growth and differentiation factors, signal transduction, molecular basis of oncogene action including recessive oncogenes and tumor suppressor genes, and DNA repair and mutator function. Research experience should have demonstrated high potential for imaginative substantial independent research. Successful candidatures will include a strong background in a basic science department within the Medical Center.

Applications should send curriculum vitae, and a brief description of present and proposed research to: Dr. Robert M. Bell, Head, Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Box 3814, Durham, NC 27710. Applications should arrange for three or more recommendations to be forwarded to the same address.

To be assured of full consideration, application should be received by 15 December 1988.

Duke University is an Equal Opportunity/Affirmative Action Employer.
Brown University seeks an ASSISTANT PROFESSOR OF PSYCHOLOGY, with a specialization in perception, for a tenure-track position that will begin on 1 July 1989, for an initial term of 3 years. Responsibilities of the position include teaching in psychology and two-year levels of directing undergraduate and graduate research, and developing a strong research program. Scientific accomplishments and potential for future independent research are essential. The successful candidate will be known for his/her specific research interests, which might focus, for example, on information processing, associative theory, psychological analysis, or the ontogeny of behavior, possibly including phenomena that relate to human sensitivity to the world. Women are encouraged to apply. Applicants should send curriculum vitae, publication list, summary of predoctoral and postdoctoral research, graduate transcript, and a brief statement of research plans. These materials must be received by 1 December 1988. Chair, Faculty Search Committee, Department of Psychology, Brown University, Providence, RI 02912. Brown University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR CELLULAR AND MOLECULAR PHARMACOLOGY**

Applications and nominations are invited for a tenure-track faculty position at the rank of assistant professor. Applicants should have earned a Ph.D. degree, an M.D. degree, or both, and should have postdoctoral research training. We seek applicants who have the potential to attract support for an independent research program and who have an interest in professional and graduate education. All qualified applicants are urged to apply, particularly those with expertise in drug and chemical biotransformation, reactive metabolites, and cardiovascular/renal pharmacology. An appointment at the associate professor or professor level will be considered for established investigators with five or more years of postdoctoral and/or independent research experience. Applicants must have a doctoral degree and postdoctoral experience. The successful candidate is expected to develop a vigorous independent research program and participate in our undergraduate and graduate teaching programs. He/she will join a strong group of molecular biophysicists and biochemists who are committed to establishing an outstanding program in structural biology. Starting salary will be in the range of $33,000 to $36,000, depending on experience. An additional 2-3 month salary may be generated from teaching or research sources. In order to ensure full consideration, applications must be received by 15 November 1988. Interviews may be conducted before 15 November 1988, but all applications received by that date will receive full consideration. Applicants should submit curriculum vitae, a list of publications, a short statement of future research plans, and the names of at least three references to: Dr. Andrew H.-J. Wang, Chairman, Search Committee, Department of Physiology and Biophysics, 524 Burnham Institute, La Jolla, California 92037. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

**DEPARTMENT OF PHYSIOLOGY AND BIOCHEMISTRY**

**UNIVERSITY OF ILLINOIS AT CHAMPAIGN-URBANA**

**ASSOCIATE PROFESSOR PROTEIN CRYSTALLOGRAPHY**

Applications are invited for a tenure-track position in protein crystallography at the assistant professor level in the Department of Biochemistry, with an expected five-year commitment to establish an outstanding program in structural biology. Starting salary will be in the range of $33,000 to $36,000, depending on experience. An additional 2-3 month salary may be generated from teaching or research sources. In order to ensure full consideration, applications must be received by 15 November 1988. Interviews may be conducted before 15 November 1988, but all applications received by that date will receive full consideration. Applicants should submit curriculum vitae, a list of publications, a short statement of future research plans, and the names of at least three references to: Dr. Andrew H.-J. Wang, Chairman, Search Committee, Department of Physiology and Biophysics, 524 Burnham Institute, La Jolla, California 92037. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

**TWO ASSOCIATE PROFESSORSHIPS DEPARTMENT OF ANATOMY DALHOUSIE UNIVERSITY, NOVA SCOTIA, CANADA**

The Department of Anatomy at Dalhousie University has tenure-track positions for two associate professors commencing 1 July 1989. Candidates must have a Ph.D., M.D. or D.D.S. and have experience in neuroanatomical training. One position requires an ability to teach Histology and Embryology and the second requires an ability to teach gross anatomy and neuroanatomy. Applications are invited from qualified candidates in the following areas: (i) Molecular Biology, (ii) Developmental Neurobiology, (iii) Neuroanatomy, (iv) Neuroendocrinology, (v) Renal Cell Biology and (vi) Electrochemical Biology. While both positions have guaranteed University funding, each successful applicant will be expected to apply to the Medical Research and Development Council for Scholarship support. Applications should include curriculum vitae, representative reprints, summary of present research activities and future research plans, and the names of three references. Applications should be sent to: Dr. G. Gwyn, Professor and Head of Department, Anatomy, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 417 by 1 January 1989. In accordance with Canadian Immigration regulations, priority will be given to Canadian citizens and permanent residents of Canada. Dalhousie University is an Equal Opportunity/Affirmative Action employer.

**ASSISTANT RESEARCH SCIENTIST (Laser Development and Atmospheric Remote Sensing)**

This position is equivalent to an assistant professor in an academic faculty and is paid entirely from grant and contract funds (salary range: $36,000 to $39,000). Applicants for this position must hold the Ph.D. degree in laser physics, atmospheric sciences, or other applied physical sciences. Minimum of one year of postdoctoral experience with a focus on remote sensing of the atmosphere, tunable laser construction and diagnostics, stimulated Raman scattering, and applications to molecular spectroscopy. Occasional travel to remote test sites in the United States is required. Send resume by 9 November 1988 to: Department of Economic and Employment Development, 1100 North Eutaw Street, Room 212, Baltimore, MD 21201. Job Order No. 700 8111.

Several tenure-track positions are available in the AS- SISTANT AND ASSOCIATE PROFESSOR levels in the Department of Cellular and Molecular Physiology at Harvard Medical School. The Department is especially interested in studies at the cellular and molecular level on the following research topics: receptors, hormones, signal transduction, and cell motility. Successful candidates are expected to develop a research program and to participate in teaching medical and graduate students. The Department is acquiring new facilities to support this expansion. Send curriculum vitae, a brief description of future research, and names of three referees to: Search Committee, Department of Cellular and Molecular Physiology, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

**ASSOCIATE/ASSOCIATE PROFESSOR OF BIOCHEMISTRY**

A tenure-track position is available in the Department of Biochemistry at the University of Maryland School of Medicine for research opportunities in the areas of research interests in molecular, cellular or developmental biology are encouraged to apply. The Department of Biochemistry has tenure-track positions for candidates with experience and interest in cancer biology. Applications should be submitted to: Dr. L. E. King, Chairman, Search Committee, Department of Biochemistry, University of Maryland School of Medicine, 20 North Pine Street, Baltimore, MD 21201. Interested candidates are encouraged to express their interest in the Department and the University. A position at this level is available.

**ASSISTANT/ASSOCIATE PROFESSOR OF ENTOLOGY**

Full-time, tenure-track 80% research; 20% teaching. Develop and conduct program basic and applied research in urban entomology, emphasis on biology and control of termites. Develop and teach graduate course in urban entomology and/or insect behavior. Minimum Qualifications: Assistant: Ph.D. in entomology or related field required, experience in urban entomology. Associate required four or more years of experience and Ph.D. Application and details: Dr. M. E. Goff, Department of Entomology, 3050 Maile Way, University of Hawaii, Honolulu, HI 96822. Available approximately 1 May 1989; closing date: 15 November 1988.

**ASSISTANT OR ASSOCIATE PROFESSOR TENURE-TRACK MOLECULAR/CELL BIOLOGIST**

Position available in 1989 for an independent investigator to complement a broad spectrum departmental research program in the Department of Pharmacology and Toxicology, University of Maryland School of Medicine, Baltimore, MD. The appointee will conduct research in an area of his/her choice in the fields of cancer biology, pharmacology, and toxicology, University of Maryland School of Medicine, 20 North Pine Street, Baltimore, MD 21201. Interested candidates are encouraged to express their interest in the Department and the University. A position at this level is available.
POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
CELLULAR/MOLECULAR NEUROBIOLOGY

The Department of Neurobiology and Physiology, Northwestern University, invites applications for a tenure-track position in the area of cellular and molecular neurobiology beginning fall 1989. The Department has 23 faculty with research programs in sensory neurobiology, neuroendocrinology, development, and plasticity. Faculty participate in 5 NIH training programs, 2 NIH program projects and the University's Graduate Program in Neuroscience consisting of 65 faculty. Our Department and the Department of Biochemistry, Molecular Biology and Cell Biology form the life sciences division at the Evanston campus. Applicants should have a Ph.D. or M.D. and have completed postdoctoral training. Curriculum vitae, list of publications, a description of current and future research, and three letters of recommendation should be sent by 1 November 1988 to: J. S. Takahashi, Department of Neurobiology and Physiology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60201. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

The Department of Biomedical Sciences at the University of Illinois College of Medicine at Rockford invites applications for one or more tenure-track/tenured faculty positions. Candidates should have a doctoral degree in pharmacology or a related discipline. The successful applicant will participate in the teaching of pharmacology to medical students. Applications should include curriculum vitae, three representatives, a summary of current research activities and future research plans, and the names of at least three individuals from whom letters of reference may be solicited. Candidates should also state at which level they wish to be considered. Please send applications to: Chairman, Search Committee, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107. Applications should be received by 1 December 1988. The University of Illinois College of Medicine at Rockford is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSORS OF BIOLOGY

The Department of Biology, San Francisco State University, invites applications for three tenure-track positions starting fall 1989. A Ph.D. is required and postdoctoral experience is desirable. Candidates should have a commitment to excellence in undergraduate teaching, an established research record, and the desire to maintain an extramurally funded program that includes supervision of M.A. student research. The department has a faculty of 40 whose biology groups include botany, marine biology, neurobiology, molecular biology, and physiology.

CONSERVATION ECOLOGIST. We seek an ecologist specializing in the developing field of conservation biology. Primary responsibilities will be to offer graduate and upper division courses in conservation biology and contribute to development of a M.A. program in conservation. Our preference is for candidates with an established research record in conservation biology whose expertise best integrates with current departmental research.

MARINE ECOLOGICAL PHYSIOLOGIST. We seek a person who studies physiological processes in an explicitly ecological context. While this person is expected to study marine animals, areas of specialty with regard to habitat, taxa and physiological systems are open. Responsibilities include participation in lower division courses and teaching upper division and graduate courses in comparative/ecological physiology.

MOLECULAR PARASITOLOGIST. We seek a parasitologist whose research utilizes recombinant DNA and molecular biological techniques. Responsibilities include teaching an upper division course in general parasitology and participating in courses in molecular biology, genetic engineering, and introductory biology.

Send curriculum vitae, statement of teaching interests and research goals, and three letters of reference by 8 January 1989 to: Dr. John Hafemski, Chair, Hiring Committee, Department of Biology, San Francisco State University, San Francisco, CA 94122. Women and minority candidates are especially urged to apply. SFSU is an Equal Opportunity/Affirmative Action Employer.

Research Opportunity in Infectious Diseases

Pfizer

An equal opportunity employer

Pfizer, a broad based multinational pharmaceutical company, has an immediate opening for a Research Assistant at its Central Research facility in Groton, CT. You would become part of a multidisciplinary research group and would conduct biochemically based experiments related to infectious diseases.

This position requires a BS or MS degree in Biochemistry or Molecular Biology or related discipline and relevant laboratory experience involving the pathogenesis of infectious diseases. In addition, you should have experience in one or more of the following areas:

- protein/glycoprotein purification, in particular FPLC experience
- enzymology
- receptor/ligand binding assays
- familiarity with computer interfaced instrumentation

Pfizer offers a stimulating scientific research environment with the opportunity to interact with researchers from several other disciplines. In addition, Pfizer has a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shoreline community. Please send a resume, a description of your research experience, and names of three references to Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Assistant Director, Safety Evaluation, Preclinical Research

A health care company that markets prescription and proprietary products for human and animal health care has an opening for an Assistant Director, Safety Evaluation, Preclinical Research, at its research and development facility in King of Prussia, Pennsylvania.

The principal duties of the position include: (i) planning, organizing and directing the activities of the Safety Evaluation Unit in connection with animal studies of up to six months in duration including histopathological evaluation of such animal studies; (ii) conceiving, planning, directing and evaluating toxicologic/pathologic research in connection with lesions observed in long term rodent studies; (iii) developing strategies for defining the toxicity profile of new compounds, particularly the chronic toxicity and carcinogenic potential of such compounds; (iv) consulting on toxicologic/pathologic-related questions and problems which arise in various research and development projects and serve as pathologic/Toxicologic Project representative on such projects and (v) assisting in developing a budget for the Department of Investigative Toxicology and in allocating departmental resources including recommending personnel for assignment to project teams and to specific duties within such teams.

The minimum requirements for the position are a combination of a Ph.D. degree in pathology and a degree in medicine or veterinary medicine and eight (8) years experience in (i) rodent pathology and in developing animal models of human diseases such as brain diseases, autoimmunity and mammary cancer; (ii) in aging pathology and (iii) in the execution and evaluation of long-term carcinogenicity/toxicology studies.

Salary of $572,615 with liberal employee benefits. No fee charged. For prompt confidential consideration, send resume or C.V. to The Philadelphia Job Bank, 444 N. 3rd Street — 3rd Floor, Philadelphia, PA 19123 and refer to Job Order #4208466.

7 OCTOBER 1988
YALE UNIVERSITY
ASSISTANT OR ASSOCIATE PROFESSOR OF NEUROLOGY (NEUROSCIENCE)

The Department of Neurology at the Yale School of Medicine seeks outstanding candidates with a Ph.D. or M.D. and with at least 2 years of postdoctoral training and expertise in cellular and molecular mechanisms of brain function (e.g., science or related disciplines) to establish a research program on molecular or developmental neurobiology. Applicants with interests in the involvement with at least the level of ASSOCIATE OR FULL PROFESSOR. Candidates must be senior scientists of national or international stature with an established research agenda in the field of molecular neurobiology and have published high-level research in peer-reviewed journals. The position will include teaching of medical students, graduate students, and postdoctoral fellows. Especially favorable opportunities exist in the areas of molecular biology or biochemical pharmacology of ion channels and receptors, cellular structure-function, cell-cell recognition, membrane structure-function, developmental neurobiology, and neurogenetics. Excellent facilities and support are available. Joint appointment may be arranged for appropriate candidate in basic science department.

Send curriculum vitae and names of three references by 1 December 1988 to: Jeffrey D. Koeppe, Ph.D., Chair, Neurology Search Committee, Department of Neurology, LCI 702, Yale Medical School, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DIRECTOR OF THE IOWA AGRICULTURE AND DEVELOPMENT EXPERIMENT STATION AND ASSOCIATE DEAN, COLLEGE OF AGRICULTURE IOWA STATE UNIVERSITY

Qualifications: An earned doctorate in a biological, physical, or social science discipline and an excellent record of research. Candidates should submit a complete résumé, a letter of application (which includes a description of the candidate's academic philosophy), and the names of at least five references to: Dr. Dennis R. Starleaf, Chair, Search and Screening Committee, College of Agriculture, 124 Curtiss, Iowa State University, Ames, IA 50011. Telephone: 515-294-6132. Deadline: Applications accepted 1 December 1988 through 15 January 1989. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE OR ASSOCIATE PROFESSOR IN ANIMAL VIROLOGY. Applications are invited for a tenure-track position in the Department of Microbiology, Pathology and Parasitology of the North Carolina State University College of Veterinary Medicine. Applicants are expected to develop a strong research program in an area of Veterinary Virology. Candidates should have a Ph.D. degree and experience in animal virology. Teaching responsibilities include participation in instruction of veterinary students in virology and training graduate students. Please send curriculum vitae, statement of research plans and the names of at least three references by 1 January 1989 to: Dr. Leroy Coggins, Department of Microbiology, Pathology and Parasitology, Box 8401, North Carolina State University, Raleigh, NC 27606.

North Carolina State University is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minorities.

BIOCHEMIST—Applications and nominations are invited for a Ph.D. level individual with postdoctoral training and with expertise in the application of biochemistry to immunology. The successful candidate is expected to establish a vigorous, externally funded research program with emphasis on cellular/molecular biochemistry pertaining to immunological studies and to participate in the immunology teaching duties of the department. The position is available upon completion of postdoctoral training and appointment will be at the assistant professor level. Applications, including curriculum vita, transcripts, a summary of research and teaching experience, and the names of three references, should be sent to the following address by 1 December 1988: Dr. James E. Robbers, Chairman Search Committee, Department of Immunology and Pharmacology, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, IN 47907. Purdue University is an Equal Opportunity/Affirmative Action Employer.

The University of Arizona is developing a joint program in science education spanning the several programs of the Faculty of Science, Arts and Sciences and the Division of Teaching and Teacher Education within the College of Education. Applications for positions at the level of ASSOCIATE OR FULL PROFESSOR. Candidates must be senior scientists of national or international stature with an established research agenda in the field of science education and have published high-level research in peer-reviewed journals. The position will include teaching of science education at the undergraduate level. This position will coordinate the preparation of teachers in science fields, support the continuing education of science teachers, participate in the development and teaching of science programs, and assist in the development of sponsored projects in the general area of science education. The summary of research will be an extension of his or her academic discipline. The science education activities are expected to require approximately 75 percent of annual effort. It is intended that the incumbent will also serve as a consultant to various science education programs.

Send curriculum vitae and names of three references by 1 December 1988 to: Dean Gary D. Ferstenmacher, College of Education, Tucson, AZ 85721. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer.

ASTROPHYSICIST

A position is available at the Harvard-Smithsonian Center for Astrophysics (CFA) for a senior astrophysicist. This Federal appointment is at a level comparable to an assistant or full professor in an academic institution. The Smithsonian Astrophysical Observatory is filling a vacancy in its senior research staff and seeks an individual possessing outstanding ability in the formulation and conduct of independent scientific research at the forefront of astrophysics. Candidates should be distinguished in their field of research and have a record of publications which have contributed significantly to advances in their field. Research areas of investigation at the CFA include atomic and molecular physics, high energy astrophysics, optical and infrared astronomy, the planetary sciences, radio astronomy, solar and terrestrial physics, and theoretical astrophysics. The candidate selected will have some institutional support to carry out research programs. If additional institutional support is obtained, proposals for those programs will be developed and submitted to appropriate Federal agencies or private sector funding sources. The salary will be at the GS-14 or GS-15 level ($46,679 to $71,377 per year) depending upon qualifications and professional experience. Applicants should send curriculum vitae, bibliography, and a statement of research and career goals to: Smithsonian Astrophysical Observatory, c/o Dr. Giovanni G. Fazio, Chairman, Federal Scientist Appointments Committee, M&S65, 60 Garden Street, Cambridge, MA 02138, by 31 December 1988. Applicants should arrange for three letters of recommendation to be sent to the above address by the same date. Interested persons who are not United States citizens, or who wish additional information on this position, should contact: Mr. Peterman S. Brown at 617-794-3771. The Smithsonian Astrophysical Observatory is an Equal Opportunity/Affirmative Action Employer.

CELLULAR/MOLECULAR PHYSIOLOGY FACULTY POSITION. The position in the Biology Department is available for August, 1989. The position is at the assistant professor level, although more experienced outstanding candidates will be considered. The successful candidate will be expected to develop a productive, extramurally funded research program; and alternately teach an undergraduate physiology course and a more advanced electives course if considered. Candidates should have Ph.D. and 1-2 years of postdoctoral experience, an additional level. Applicants should send curriculum vitae, statement of research, and names of at least three references by 15 December 1988 to: Dr. Peter Abraham, Biology Department, Marquette University, 1111 West Wisconsin Avenue, Milwaukie, Wisconsin 53233. An Equal Employment Opportunity/Affirmative Action Employer.

AVIAN/WATERFOWL ECOLOGIST. A research scientist position with the USDA Forest Service, Pacific Northwest Research Station's Forestry Sciences Laboratory in Juneau, Alaska. May be filled on either a permanent basis, or as a 2-year postdoctoral research appointment. The incumbent will conduct an independent research program with emphasis on functional processes between birds and their riparian and wetland habitats in southeastern Alaska and Prince William Sound, including the Copper River Delta. Candidates must hold a Ph.D. in ecology, wildlife biology, or a related field. A strong background in avian ecology and experience with field research on birds. Preference will be given to applicants with a demonstrated interest in collaborative research efforts. A strong interest in salmon and waterfowl and wetlands is desired but not necessary. Salary: GS-12 or 13 (about $41,500 to $55,000 including 25% tax-free cost-of-living allowance) depending on qualifications.

Send current résumé, transcripts of college work, and letters of recommendation to: Dr. Thomas A. Hanley, USDA, Forest Sciences Laboratory, P.O. Box 20909, Juneau, AK 99802-0909. Deadline: 30 November 1988.

UNIVERSITY OF BRITISH COLUMBIA
DEPARTMENT OF BIOCHEMISTRY

Applications are invited for a tenure-track position at the rank of ASSISTANT PROFESSOR. Candidates with postdoctoral experience before 1 July 1989 or at a suitable subsequent date. Candidates should have a commitment to teaching and the ability to maintain a vigorous and creative research program. Applications must have a Ph.D. or M.D. degree and at least 2 years of postdoctoral experience.

The Department of Biochemistry also intends to sponsor applications to granting agencies such as the National Science Foundation of Canada Scholarship. The successful candidate would be appointed as an assistant professor. Interested applicants should send curriculum vitae, list of publications, reprints of representative papers, a brief description of future research interests, and names of letters from three referees to be sent to: Dr. Philip D. Brage, Department of Biochemistry, Faculty of Medicine, University of British Columbia, 2146 Health Sciences Mall, Vancouver, B.C., Canada V6T 1Z7.

Deadline: For earliest consideration, applications must be received by: 1 January 1989. FAX Number: 604-228-5277.

In accordance with Canadian Immigration requirements priority is given to Canadian citizens and permanent residents of Canada. This position is subject to final budgetary approval.

BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

Three faculty positions are available in the Department of Biochemistry at the level of ASSISTANT OR ASSOCIATE PROFESSOR for well-trained or experienced candidates in biochemistry and molecular biology. The Department expects to fill these positions in 1989. Successful applicants will be expected to develop and maintain a funded research program of high quality and productivity. The College is committed to diversity and encourages applications from members of minority groups. The successful candidate will be expected to develop and maintain a funded research program of high quality and productivity. The College is committed to diversity and encourages applications from members of minority groups.

CHAIRPERSON, HUMAN GENETICS

New York State Institute for Basic Research in Developmental Disabilities (IBR) seeks person to provide leadership for ongoing programs including ones to prevent development of disabilities and to develop a research program in molecular genetics focused on a human disease related to DD. Candidate should have Ph.D. and/or M.D. and credentials for appointment as associate or full professor at affiliated medical school, as well as record of NIH funding. Send curriculum vitae to: Personnel Officer, IBR, 1860 Forest Hill Road, Staten Island, NY 10314. Affirmative Action/Equal Opportunity Employer.
The research and graduate program in forest biology, specializing in forest biotechnology and regeneration, is being expanded. The program currently has three faculty members conducting research in tree development, tissue culture and molecular biology of forest trees. We are seeking tenure-track appointments in each of the following areas:

**TREE PHYSIOLOGY (2) AND PLANT BIOCHEMISTRY**

At least two of these positions will be filled effective July 1, 1989. Appointees will contribute to undergraduate teaching in the departments of biology or biochemistry/microbiology and graduate teaching in forest biology. They will be expected to seek research funding, develop an active research program, supervise graduate students and coordinate graduate courses to which adjunct professors from the Canadian Forest Service, Pacific Forestry Centre and the B.C. Ministry of Forests Research Branch will contribute. Appointees will be made at the assistant or associate professor levels with one senior Landsdowne professor in tree physiology. Salaries are to be negotiated.

Canadian Immigration regulations require the University to assess applications from Canadian citizens and permanent residents before others. Applications, including full curriculum vitae and the names of three referees, will be accepted until December 31, 1988 and should be submitted to: Dr. John T. Weaver, Acting Dean of Science, Faculty of Arts and Science, University of Victoria, P.O. Box 1750, Victoria, B.C. V8W 2Y2, Canada. Telephone: (604) 721-7041, FAX: (604) 721-6563.

The University of Victoria has approximately 11,000 undergraduates, over 1,000 graduate students and about 500 faculty members. The Division of Science, within the Faculty of Arts and Science, offers degrees in biochemistry, microbiology, biology, chemistry, computer science, mathematics, physics and astronomy.

The University of Victoria offers equal employment opportunities to qualified male and female applicants. Women are particularly encouraged to apply.

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**METABOLISM SCIENTIST**

CIBA-GEIGY's Agricultural Division has an excellent opportunity for a Metabolism Scientist at its Environmental Health Center in Farmington, CT. You will conduct a variety of animal metabolism, and special research studies as part of a team of chemists, biochemists, and toxicologists. Responsibilities include study design, overall study supervision, interpretation of results, and report preparation. Your work will include the separation and identification of metabolites in biological systems to determine the mechanism of toxic effects.

The successful candidate will have an M.S. or Ph.D. or equivalent experience in biochemistry, chemistry or a related field, and be experienced in modern biochemical and analytical procedures, including GC, HPLC, TLC and radioisotope handling.

CIBA-GEIGY Corporation offers on-going growth opportunities, excellent salaries and an attractive package of paid company benefits. The Environmental Health Center is adjacent to the University of Connecticut Health Center, in one of the state's most attractive semi-rural towns. To apply, please send your resume, a brief description of your experience, and your salary requirements to: Mrs. P.A. Frutchey, CIBA-GEIGY Corporation, 400 Farmington Ave., Farmington, CT 06032. We are an Equal Opportunity Employer.

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**National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)**

The Section on Cellular Immunology of the Arthritis and Rheumatism Branch is seeking a well-qualified post-doctoral fellow with a Ph.D. or M.D. or equivalent interested in molecular approaches to immunology and immune-mediated disorders. Ongoing studies include isolation of genes which induce autoimmune diseases, study of new endogenous (not infectious) retroviral transcripts associated with murine lupus, immune regulation, B cell activation and gene expression in systemic lupus.

The Branch is part of the intramural program of NIAMS with major interests in autoimmune, chronic inflammation and clinical investigations in autoimmune diseases. The position which will be open around July 1, 1989 offers a starting salary for staff fellows ranging from $24,000 to $50,744. Applicants should send a curriculum vitae, bibliography, a short statement of research interests, as well as the names of three references to Alfred D. Steinberg, M.D., Chief, Cellular Immunology Section, ARB, NIAMS, 9000 Rockville Pike, Building 10, Room 2N-218, N.I.H., Bethesda, MD 20892 (301) 496-1961. U.S. Citizenship Required.

AN EQUAL OPPORTUNITY EMPLOYER
POSITIONS OPEN

CELL JOURNAL REVIEWS EDITOR
Scientist required to take responsibility for the review section of Cell. Applicants should have a strong interest in basic research and a Ph.D. in biology or a related field. Applications are invited from scientists in any field of biology, who have 5 years experience in a scientific journal and who have an active research career. The successful candidate will be expected to work independently to select minireviews and reviews for publication. Applicants should include a curriculum vitae and a list of relevant publications. Write to: Editor (Reviews), Cell, 50 Church Street, Cambridge, MA 02138.

CHEMIST—Ph.D. in chemical or physical chemistry. Four years of experience as a research assistant in basic research is required. The position requires independent research in a specialized area of chemistry and the ability to publish results in scientific journals. Salary: $85,000. Application deadline: 10 January 1989.

DEAN of the College of Agriculture and Home Economics, Washington State University, effective 1 July 1989. Earned Ph.D. or equivalent (preferably in one of the fields of the college), scholarly, instructional, and service background in agriculture and/or home economics. Applicants must have a Ph.D. and have a demonstrated ability to communicate effectively with agricultural and home economics leaders. A letter of application, curriculum vitae, and five references should be sent to: Dr. John C. Pierzch, Washington State University, Pullman, WA 99164-2630. Applications and nominations must be received by 1 December 1988.

DEVELOPMENTAL NEUROBIOLOGIST: The Department of Anatomy and Cell Biology at the University of Michigan invites applications for a Tenure-track assistant professor position starting in the 1989 to 1990 academic year. Applicants should have or develop an active, independent research program in which significant problems are approached with contemporary techniques. Teaching can be in neuroscience, histology, or gross anatomy. Applicants should send a curriculum vitae, a statement of research, and three letters of reference to: Dr. Bruce M. Carlson, Chairman, Department of Anatomy and Cell Biology, University of Michigan Medical School, Ann Arbor, MI 48109–0616. The University of Michigan is an Equal Opportunity/Affirmative Action Educator and Employer.

DIRECTOR VIRGINIA MUSEUM OF NATURAL HISTORY
The Virginia Museum of Natural History, established as the state museum in 1988, is seeking a director. The museum has a broadly defined mission in research, collections, and education in the natural sciences and currently occupies a building of 54,000 square-feet. Its biennial appropriation is $8–million. The successful candidate will plan, develop, and direct the operations and capital projects for the museum. A doctorate is preferred and a record of research in the natural sciences, prior broad museum administrative experience, including budget preparation and management, and a proven record of teaching and administrative experience, and demonstrated fund-raising ability are requisite.

The Virginia Commission of Fine Arts is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST

The Department of Cell Biology and Anatomy at Oregon Health Sciences University invites applications for a tenure-track faculty position at the level of assistant or associate professor. We are looking for an individual with a strong research background in developmental biology or developmental neurobiology, and who is currently using cellular and molecular biological approaches in their work. The applicant will be expected to develop an independent, competitively funded research program, and to participate in the teaching of graduate and medical students. Submit curriculum vitae, selected reprints, and the names of three references by 1 January 1989 to: Dr. Gary Clemens, Department of Cell Biology and Anatomy (L215), School of Medicine, Oregon Health Sciences University, Portland, OR 97201. Affirmative Action/Equal Opportunity Employer.

DIRECTOR: The University of Kansas is seeking a Director of the Gerontology Center, one of the major units of the Institute for Life Span Studies. The Director of the Gerontology Center will have a faculty appointment in a department appropriate to the individual's area of research expertise and will be an Associate Director in the Life Span Studies Institute.

A complete job description is available upon request. Salary will be commensurate with qualifications and experience. All communications should be addressed to: Dr. Richard Schießl, Director, Gerontology Center Search Committee, 2045 Hawks Hall, Lawrence, KS 66045. The application deadline is 10 December 1988. An Equal Opportunity/Affirmative Action Employer.

ECOLOGY AND PHYSIOLOGY
(TWO POSITIONS)

The Department of Biology at the University of Utah seeks to hire two TENURE-TRACK BIOLOGISTS, specializing in non-marine invertebrates (especially invertebrates). Positions will be filled at the assistant professor level in the areas of (i) evolutionary ecology/systematics and (ii) comparative and/or ecological physiology. We are especially interested in candidates who can establish mutually beneficial interactions with existing faculty and graduate students. The successful applicant will be expected to establish a strong independent research program and to contribute to graduate and undergraduate instruction. Applications will be accepted until the position is filled, but we will begin screening applications 1 December 1988. Interested persons should send a letter of application, curriculum vitae, copies of representative publications, and three letters of recommendation to: Dr. Diane Davidson Department of Biology University of Utah Salt Lake City, UT 84112

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

ENVIRONMENTAL TOXICOLOGIST

Exxon Biomedical Sciences, Inc. has an immediate opening for a qualified individual specializing in environmental impact and hazard assessment. The successful candidate will have a Ph.D. in environmental chemistry, toxicology, or a related field. One to 3 years of practical experience in exposure assessment, fate prediction/modeling, waste and contaminated site evaluations is desired. In addition, the applicant should have a strong background in environmental chemistry. Exxon Biomedical Sciences, Inc. performs both consulting and laboratory toxicology for affiliates around the world. Its resources include state-of-the-art aquatic toxicology, environmental chemistry and mammalian toxicology laboratories. The candidate will be consulting directly with our affiliates on matters pertaining to the assessment of potential environmental hazards associated with products, effluents, hazardous wastes, etc. Client interactions are an important aspect of our work, and thus, we are seeking an individual who has excellent communication skills.

Please forward resume to: Human Resources:

EXXON BIOMEDICAL SCIENCES, INC.
CN 2350, Medcay Road
East Millstone, NJ 08875–2350

Equal Opportunity Employer M/F/H/V

7 OCTOBER 1988
THE UNIVERSITY OF SOUTH FLORIDA
COLLEGE OF MEDICINE
ST. PETERSBURG
AT ALL CHILDREN'S HOSPITAL

ANDREW AND ANN HINES ENDOWED CHAIR IN PEDIATRICS

The University of South Florida College of Medicine, Department of Pediatrics (St. Petersburg) at All Children's Hospital seeks an eminent scholar of professional rank for the Andrew and Ann Hines Endowed Chair in Pediatrics. Candidates must have demonstrated expertise in independent research with the ability to focus techniques of molecular biology to clinical problems in the areas of immunology, endocrinology, virology, and/or neuro science for children as well as demonstrated expertise in independent research and demonstrated ability to organize and/or interact with developing programs in pediatric research.

The University seeks qualified candidates with the degree of M.D., M.D./Ph.D., or Ph.D. who have demonstrated the ability to work with and guide clinicians in the medical sciences. Criteria for selection will include interest and demonstrated expertise in the area of eukaryotic molecular genetics including techniques such as gene cloning, chromosome mapping, application and use of gene probes, and analysis of gene functions at both the protein and messenger RNA levels. In addition, extensive experience is sought with demonstrated expertise in independent research with an established international/national record of extramural peer-reviewed research grant support. Demonstrated ability to administer complex grant support programs and stimulate other investigators is desirable.

Responsibilities will include: scholarly activity and guidance of clinicians in the application of molecular biologic techniques in genetics and immunology in childhood associated disease, continued independent research, and an active role in teaching health care professionals at all levels.

Qualified candidates should submit a letter of interest together with current curriculum vitae and the names of five recognized national/international authorities as referees for consideration to John S. Curran, M.D., Chairperson, Search Committee for the Andrew and Ann Hines Endowed Chair of Pediatrics, Department of Pediatrics, University of South Florida College of Medicine, MDC 15, 12991 Bruce B. Downs Blvd., Tampa, FL 33612.

The University of South Florida is an Equal Opportunity/Affirmative Action employer. Qualified minorities, women and handicapped applicants are encouraged.

Deadline for application is December 31, 1988.
BIOANALYTICAL SENIOR SCIENTIST

We have discovery down to a science.

offmann-La Roche is known throughout the world as a highly progressive and responsible medical research organization; we are comprised of a dedicated team of professionals whose main concern is finding the solutions to tomorrow’s problems today.

We are seeking a Senior Scientist to supervise a bioanalytical laboratory, which is involved in performing a variety of assays, employing mammalian cell culture techniques. This will include the stability evaluation of different protein formulations such as Interleukin-1, Interleukin-2, and Interferon-α1 as well as the development, improvement and validation of bioanalytical procedures for recombinant protein products.

Qualifications include a PhD in Biochemistry, Immunology or a related field, with 1-2 years’ experience in cell culture and bioanalytical techniques. Familiarity with GLP’s and computers is highly desirable.

In return, you will receive a comprehensive compensation package, and the benefits of joining an organization that is committed to discovery. For confidential consideration, please send your resume indicating salary history/requirements (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Department K.I., Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Working Today For A Healthier Tomorrow.
ENVIRONMENTAL PATHOLOGY/TOXICOLOGY. NKMA supported PRE- AND POSTDOCTORAL POSITIONS for Environmental media. Applicants should emphasize oncellular and molecular effects (mutagenesis, neurotoxicity, biotransformation, DNA dosimetry) of toxic chemicals (especially trace metals, aromatic hydrocarbons, ozone respiratory epithelial injury, aflatoxins). Inquiries to: Dr. N. K. Metter, Program Director, Department of Pathobiology, Washington State University, Seattle, WA 98195. U.S. Citizen/Permanent Resident. An Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENTIST/TOXICOLOGIST—$72,490 to $36,122. Minnesota Department of Health seeking an experienced scientist to perform risk assessment of contaminants in environmental media. Applications for this civil service position must meet education and experience requirements. For an application and more information, contact: Mr. Gray, Minnesota Department of Health, 717 SE Delaware Street, Minneapolis, MN 55440. Telephone: 612-623-5382. The State of Minnesota is an Equal Opportunity Employer.

EXECUTIVE DIRECTOR SPACE RESEARCH INSTITUTE

The Florida Institute of Technology invites applications and nominations for the position of Executive Director of its Space Research Institute (SRI). SRI is a new organization which serves as the focal point for space oriented research at F.I.T., near Cape Canaveral and the Kennedy Space Center. The Executive Director will provide over all management of SRI. Qualifications for the Executive Director include an earned Ph.D. in science or engineering, demonstrated ability in acquiring and managing funds from federal and/or private research agencies, evidence of accomplishment in space research at a level that is consistent with that for professorships, and the vision to establish SRI as a world leader in research in the areas of space engineering, space science, and space enterprise. The Executive Director reports to the Vice President for Research, and will be given the opportunity to define the research objectives of SRI. There are presently 12 active research projects underway in three research centers supported with funds from the state of Florida. Salary and other benefits are negotiable. Full details may be obtained from: Florida Institute of Technology, 1501 North Health Street, Melbourne, Florida 32901.

EVPOLUTION—POPULATION BIOLOGY

The Department of Biology at the University of Oregon is expanding its program in population biology through the addition of several new faculty lines. Candidates with interdisciplinary interests in evolution, ecology, and/or systematics, and an emphasis on molecular biology, will be considered. Experience in research with small organisms, particularly nematodes, is desirable, but not essential. Applicants must be able to demonstrate a productive research program and to communicate findings in the professional literature. Applicants should forward a brief description of research interests to: Dr. Michael J. Plewa, Chairman, Toxicology Search Committee, Institute for Environmental Studies, University of Oregon, Eugene, OR 97403. Information may be obtained by calling: Michael Lynch, 503-686-4536. Closing date: 1 December 1989. The University of Oregon is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS MOLECULAR AND CELLULAR NEUROBIOLOGY

DARTMOUTH MEDICAL SCHOOL

Dartmouth Medical School is expanding in the area of neuroscience through the establishment of the Center for Molecular and Cellular Medicine. We seek three new faculty members with primary research interests in molecular and cellular neuroscience. These individuals will be members of the Molecular and Cellular Neuroscience Program and will also hold appointments in an appropriate department. A brief description of research interests, recent publications, and three letters of reference should be sent to: Vanderbilt Summer Student Program, Department of Physiology and Pharmacology, College of Medicine, Vanderbilt University, Nashville, TN 37232. Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

Microbiologist with a D.V.M. and/or Ph.D. or equivalent degree(s) with experience in veterinary clinical microbiology. Rank will be assistant or associate professor. The new faculty member will be expected to contribute to the veterinary teaching program (course of bacteriology/mycology to freshman veterinary students and graduate courses) and will be expected to establish a competitive, independent research program in an area of food animals. Other responsibilities include sharing the supervision of the diagnostic microbiology services of the Veterinary College and interacting with the veterinary staff of the clinical college during their senior year. Closing date for application will be 1 December 1988 or until a suitable candidate is chosen. For further details and references to: Dr. Herman A. Berkhoff, Professor of Bacteriology and Chair of the Search Committee, Department of Microbiology, College of Veterinary Medicine, University of California, Davis, CA 95616.

FACULTY POSITION

Division of Life Sciences, Department of Kinesiology at the University of California—Los Angeles invites applications from individuals with research specialties in musculoskeletal function and adaptation. Expertise in connective tissue biochemistry is particularly preferred but not required. This is a tenure-track position at the assistant or associate professor level and is anticipated to start 1 July 1989. The appointee is expected to conduct an independent research program, teach courses in basic physiology and develop a graduate seminar in her/his area of specialty. Applicants must have a Ph.D. or M.D. degree, and have had at least 2 years of postdoctoral or other comparable experience. Applications, including a statement of research interests and three names for references to: Professor R. James Slichter, Department of Physiology, 2002 Deckard Hall, University of California, Los Angeles, Los Angeles, CA 90024—1568 by 15 January 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

FACULTY POSITION AVAILABLE

Applications are invited for a tenure-track position in the Department of Pharmacology, University of South Carolina, School of Medicine. Ph.D. and/or M.D. degree and postdoctoral experience required (rank open). The successful candidate will be expected to develop an independent research program which meets institutional support and to teach medical/graduate students. Preference will be given to individuals whose research uses molecular approaches to understanding the role of peptides in vivo. The successful candidate will join an interdisciplinary group operating in a new facility, with state-of-the-art research laboratories. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN EVOLUTIONARY BIOLOGY

CANADIAN INSTITUTE FOR ADVANCED RESEARCH
DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF BRITISH COLUMBIA

The Canadian Institute for Advanced Research has opened a program in genome evolution which provides support for junior and senior faculty research positions at a number of Canadian universities. Initial support is for a period of 5 years. The Institute provides for costs of interaction between members of the program. A position, at the level of assistant professor, is currently available in the Department of Biochemistry at the University of British Columbia. The position is for a molecular geneticist/evolutionary biologist with research interests which impact either directly or indirectly on the field of evolution. The successful candidate must meet criteria for appointment both as a Scholar of the Canadian Institute for Advanced Research and as an Assistant Professor in the Department of Biochemistry at the University of British Columbia. Applications should be received by 1 January 1989. The position will remain open until a suitable candidate is appointed.

JUNIOR AND SENIOR FACULTY POSITIONS

PROTEIN CHEMISTRY

The Department of Microbiology and Immunology in the College of Medicine at the University of Tennessee, Memphis, invites applications for junior and senior level, tenure-track positions focusing on the molecular analysis of significant problems in protein chemistry. Senior candidates should have a strong record of research accomplishment with sustained program growth and development. Junior candidates will be expected to develop a high quality, independent research program with long term growth potential. Teaching responsibilities, which emphasize quality research rather than quantity, include medical, dental and graduate students. A major Center of Excellence grant has resulted in establishment of a Molecular Resource Center within the Department featuring state-of-the-art facilities: oligonucleotide synthesis, peptide synthesis, monoclonal antibody production, amino acid analysis, protein sequencing, molecular graphics, polymerase chain reaction, and flow cytometry. Funds for the initial years of research programs will be available and salaries will be highly competitive. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to: Dr. Terrance G. Cooper, Department of Microbiology and Immunology, The University of Tennessee, Memphis, 858 Madison Avenue, Memphis, TN 38163. Applications will be received until 1 November 1988 or until the positions are filled thereafter. The University of Tennessee is an Affirmative Action/Equal Opportunity Employer.

CANCER RESEARCH SCIENTISTS

Progress in anti-cancer research is accelerating at Bristol-Myers' pharmaceutical research facility in Wallingford, Connecticut. It's a setting that encourages cooperation and rewards achievement. The successful candidates will join interdisciplinary groups working on growth factor gene expression in tumor cells and lymphocytes.

RESEARCH SCIENTIST
Biochemistry and Protein Chemistry

PhD in biological or chemical science and at least 2 years postdoctoral or industrial experience required. You will also need a background in protein purification and characterization, amino acid analysis and peptide chemistry.

ASSOCIATE RESEARCH SCIENTISTS

- BS/MS with 2-4 years of experience in protein isolation and characterization required to pursue structure/function studies.
- BS/MS with 2-4 years of technical experience in the operation of HPLC/FPLC and/or oligonucleotide synthesis and DNA sequencing necessary. The desire to develop and explore new applications of these technologies is important.
- BS/MS in Biochemistry, Cell Biology, Immunology or related areas with 2-4 years relevant experience with biochemistry and immunological techniques is necessary. Previous in vivo working experience desirable. Responsibilities will include production and biological characterization of protein drug conjugates.

POSTDOCTORAL SCIENTISTS

Molecular/Cell Biology

Challenging positions are available involving the study of gene expression and regulation in human cancer cell lines. You should have a recent PhD and experience in mammalian tissue culture (preferably primary tissue culture) and molecular biology techniques.

Immunology

Recent PhDs to join interdisciplinary group working on molecular and biochemical pathways in immunoregulation. Options are available to undertake research on regulation of gene expression, signal transduction and growth factors involved in the modulation of the immune response. A strong background in modern cellular immunology and/or one of the areas above required.

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 indicating position of interest to: BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: AZ1, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492. An Equal Opportunity Employer M/F/H/V.

Bristol-Myers Company

Explore with us.
FACULTY POSITIONS. The Department of Chemistry at New York University (NYU) seeks applicants for faculty positions in physical and organic chemistry. The Department seeks individuals with strong research and teaching potential. Applicants are expected to have an active research program and to have a strong commitment to teaching. Salary and level of appointment are commensurate with experience. Applicants should submit curriculum vitae including a list of publications, summary of past research accomplishments, outline of proposed research activities, and arrange for three letters of reference. NYU Faculty of Arts and Science, Department of Chemistry, 4 Washington Place, New York, NY 10012. Questions: Michelle Franco, Secretary to the Search Committee.

NYU encourages women and members of minority groups.

FULL OR PART TIME ASSOCIATE PROFESSOR OF MEDICINAL CHEMISTRY, University of Utah Department of Medicinal Chemistry. Applications are invited for a nine-month appointment at the University of Utah. The appointment is for the period of September 1, 1988, to May 31, 1989. The faculty appointment should be renewed annually, subject to continuing employment, availability of funds, and satisfactory accomplishment. The faculty appointment is tenure-track. Applicants are expected to have at least one year of postdoctoral experience and a strong commitment to teaching. The College of Pharmacy is seeking individuals with research interests in medicinal chemistry or other areas that include medicinal chemistry in their approach to solving problems. Full-time, full-time equivalent tenure-track faculty appointments are expected to begin in Fall, 1988. Salary is competitive and is commensurate with experience. Individuals who are interested in this position should submit a curriculum vitae and a statement describing research interests and arrange to have at least three letters of reference sent to: Dr. Donald T. S. Allen, Chair, Department of Medicinal Chemistry, University of Utah, Salt Lake City, Utah 84112.

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

FACULTY POSITION IN CELLULAR AND MOLECULAR BIOLOGY. Applications are invited for a two-year position in the Department of Biological Sciences, College of Science, Old Dominion University, Norfolk, Virginia. The successful candidate is expected to have a Ph.D. in molecular biology or a related field and to have an active research program. The candidate is expected to begin fall, 1988. Interested applicants should send a curriculum vitae and a statement of research plans and three letters of recommendation to: Dr. Donald T. S. Allen, Chair, Department of Medicinal Chemistry, University of Utah, Salt Lake City, Utah 84112.

The University of Utah is an Equal Opportunity/Affirmative Action Employer.
Howard Hughes Medical Institute

Doctoral Fellowships in Biological Sciences
1989 Competition

The Howard Hughes Medical Institute will award 60 fellowships for full-time study toward the Ph.D. or Sc.D. degree in cell biology and regulation, immunology, genetics, neuroscience, and structural biology of macromolecules.

Eligibility:

- At or near the beginning of graduate study.
- No citizenship requirements. U.S. citizens may study abroad; others must study in the United States.
- Medical, dental, and veterinary students or professionals are eligible if they are at or near the beginning of Ph.D. or Sc.D. degree studies. Students receiving full tuition via M.D./Ph.D. programs are not eligible.

Fellowship Awards:

- Three-year awards, with option to extend to five years.
- $12,300 annual stipend.
- $10,700 annual cost-of-education allowance to the fellowship institution.

Deadlines:

- November 14, 1988, application deadline.
- Awards announced by early April 1989.
- Fellowship tenure must begin by January 1990, at the latest.

Potential applicants should be aware of the intense competition for awards. In the 1989 competition, more than 1,000 applications were reviewed to select 60 fellows.

For information:

Call (202) 334-2872
or write:

Hughes Doctoral Fellowships
The Fellowship Office
National Research Council
2101 Constitution Avenue, N.W.
Washington, DC 20418
United States of America

The Howard Hughes Medical Institute welcomes all qualified applicants and encourages women and members of minority groups to apply.

Chemical Research Associates

A.E. Staley Manufacturing Company — a major corn refiner — is participating in cooperative research programs with the U.S. Department of Agriculture. These assignments, in the Northern Regional Research Center, Peoria, Illinois, will continue throughout 1989.

Rumen Bacterial Polysaccharides

Challenges in the study of chemical and physical properties of extra-cellular polysaccharides produced by anaerobic ruminal bacteria. Requires experience with polysaccharide isolation and structural determination, and knowledge of carbohydrate chemistry. MS, GC and high pressure liquid chromatography. PhD in Chemistry, Biochemistry, Molecular Biology or related field required.

Polysaccharide Chemical Modification

Challenges include utilization of a twin screw extruder as chemical reactor for modifying polysaccharides, and characterization of these products. Requires experience in organic reaction kinetics, thermodynamics and/or mechanistic investigation, with knowledge of current spectroscopic and chromatographic methods. PhD in Organic, Physical Organic, Polymer or related chemistry field.

Submit your resume before November 11, 1988 to Staley headquarters in Decatur, IL: Suzanne H. Bandy, A.E. STALEY MANUFACTURING COMPANY, 2200 E. Eldorado, Decatur, IL 62521. An equal opportunity affirmative action employer.
Molecular Biologist

Oncogene Structure and Function

Applied biotechnology is a growing company specializing in:
• genetically engineered vaccines for the veterinary and human markets
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Immediate openings exist for highly motivated individuals to join our Oncogene Group. As a member of our oncogene team, you will be involved in developing diagnostic and therapeutic cancer reagents based on oncogene technology. The successful candidate should have a Ph.D. in Molecular Biology or a related field and at least two years of postdoctoral experience. A strong background in the molecular basis of cancer is preferred but not essential.

Applied biotechnology, Inc. offers a stimulating environment coupled with the opportunity to make a significant contribution to our future directions.

Please submit your resume or curriculum vitae to:

Applied biotechnology, Inc.
80 Rogers Street
Cambridge, MA 02142

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PENN STATE
University Park
Campus

ENDOWED CHAIRS

COMPUTER SCIENCE, MOLECULAR AND CELL BIOLOGY, AND PHYSICS

The Departments of Computer Science, Molecular and Cell Biology and Physics in the College of Science of Penn State, invite nominations and applications for Eberly Family Chairs in each department.

Candidate with international reputations in their specific research areas are sought who possess outstanding publication and grant-support records and who have made major contributions to their professions. Chair-holders will be expected to assume a leadership role in their department, the College of Science and in the University.

Candidate’s credentials will be accepted until suitable individuals are selected.

Nominations, inquiries and applications should be directed to:

COMPUTER SCIENCE, Professor Joseph Lambert, Box SCS, Ph. (814) 865-9505; MOLECULAR AND CELL BIOLOGY, Professor Reginald Deering, Box SMCB, Ph. (814) 863-1851; PHYSICS, Professor Howard Grotch, Box SPHY, Ph. (814) 863-0117. Correspondence and applications should be mailed to appropriate Box, 211 Whitmore Laboratory, University Park, PA 16802.

An Affirmative Action/Equal Opportunity Employer
Women and Minorities Encouraged to Apply

UNIVERSITY OF COLORADO
VISITING FACULTY AND
POSTDOCTORAL FELLOWSHIPS (1989-90)

FOR RESEARCH IN
• atmospheric chemistry
• analytical chemistry
• environmental chemistry, biochemistry and geochemistry
• atmospheric and climate dynamics
• remote sensing
• global change

at the Cooperative Institute for Research in Environmental Sciences (CIRES).

Five competitive fellowships will be awarded to recent Ph.D. recipients and to senior scientists, including faculty on sabbatical leave. Stipends average $26,500 for twelve months. Applications can begin at any time during the year. Selection of awardees is made in part on the likelihood of active interaction with CIRES scientists and other research groups in Boulder. Senior CIRES-affiliated scientists working in these fields include James Avery, Susan Avery, Ben Balleley, Roger Barry, John Birks, Maurice Blackmon, William Bowman, Henry Diaz, R. Ray Fall, Lang Farmer, Fred Fehsenfeld, Alexander Goetz, Howard Hanson, William Hay, Murray Johnston, Bruce Koel, William Lewis, Uwe Radok, Colin Ramage, George Reid, Russ Schnell, Robert Sievers, and Harold Walton. Candidates are encouraged to contact one or more of the senior investigators as they are preparing their proposals. Apply to:

Prof. R. Sievers, Director, CIRES,
Visiting Fellows Program
University of Colorado, Campus Box 449
Boulder, CO 80309.

Include vitae, publications list, and brief outline of proposed research. Also request that three persons familiar with your qualifications send letters of recommendation. Junior applicants must submit undergraduate and graduate transcripts. First consideration will be given to applications received by December 1. Final application deadline is February 15.

The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities, and disabled individuals.

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1515 BROADWAY
NEW YORK, N.Y. 10036
The AIDS Program of the National Institute of Allergy and Infectious Diseases is seeking senior level scientists in IMMUNOLOGY, ViroLOGY, BIOLOGY, BIOCHEMISTRY, MICROBIOLOGY and PHARMACOLOGY for its Treatment Research Branch, Developmental Therapeutics Branch, and Vaccine Research and Development Branch.

The Treatment Research Branch plans and directs a Federal research program to develop drugs and therapies for treating AIDS and its related conditions. The Branch supports a national network of 35 clinical trials units, which examine and evaluate potential therapeutic interventions in Phase I, II, or III clinical trials. Responsibilities of the Branch for which staff are being recruited include: administrative and technical management of the AIDS Clinical Trials Units; development of initiatives to meet emerging requirements of the national clinical trial effort; monitoring the virologic, immunologic and pharmacologic aspects of trials; development and management of an investigator-initiated research grant program to complement the clinical trial effort and a program of identification, review and tracking of agents to be considered for clinical evaluation.

The Developmental Therapeutics Branch supports basic and applied research leading to the development of new drugs for treating AIDS and its complications. The Branch’s research includes studying the preclinical stages of AIDS therapies, improved methods for drug delivery, and the structure and mechanisms of action of antiviral and immunomodulatory compounds. Responsibilities of the position include: assessing needs for research, developing research priorities, surveying sources of AIDS-related drug development, administering programs that augment the capabilities of the National Cooperative Drug Discovery Group for AIDS and other areas of basic research related to the development of potential therapeutics for AIDS and its complications.

The Vaccine Research and Development Branch plans and directs a Federal research program for the development and evaluation of vaccines for the prevention of AIDS and its opportunistic infections. Responsibilities of the Branch for which staff are being recruited include: development and management of a basic and applied research program addressing the agenda surrounding AIDS vaccine development; neutralization assay standardization and development; correlates and markers of immunity to HIV infection; the HIV Genetic Variation Program for AIDS Vaccine Development; the simian immunodeficiency model for AIDS vaccines, the National Cooperative Vaccine Development Groups for AIDS; the AIDS Cooperative Adjuvant Group; AIDS vaccine clinical trials; international collaboration on evaluating the efficacy of AIDS vaccines.

Candidates must have a doctoral level degree with post-doctoral experience in biomedical research either in academia or industry. Salary commensurate with training and experience. U.S. citizenship is required. Please send a curriculum vitae or Application for Federal Employment (SF-171) to:

AIDS Program
Attn: Leslie Friel
NIAID/Room 251P
6003 Executive Boulevard
Bethesda, MD 20892

NIH is an Equal Opportunity Employer
POSITIONS OPEN

We are recruiting people for a major program on INFLAMMATORY PROTEIN IMMUNOLOGIST (Ph.D.)—Structure/function relationships between enzyme and immune inhibitors; protein modeling and enzyme kinetics.

MOLECULAR IMMUNOLOGIST (Ph.D.)—Expression of protease and protease inhibitors in bacterial and mammalian systems; site directed mutagenesis; regulation of gene expression.

CELL BIologist (Ph.D.)—Polymorphonuclear leucocyte and macrophage/monocyte responses to inflammatory stimuli; tissue culture models of inflammation, radiation damage and malignant transformation.

Starting Date: Immediately. Please forward résumés and three letters of recommendation to:

Fred Hutchinson Cancer Research Center
1124 Columbia Street
Seattle, WA 98104

Also, the University of Pennsylvania is an Equal Opportunity Employer.

MICROBIOLOGIST

The Department of Biological Sciences at the State University of New York at Binghamton invites applications for a tenure-track position at the assistant professor level (with a possibility of promotion to associate professor rank, as available). The candidate is expected to have a strong background in microbiology and must have demonstrated expertise in research. The successful candidate will be expected to develop a research program that uses a molecular biological approach in the study of microbial systems. The research area may include, but is not limited to, basic microbiology as well as specialized graduate courses. Send curriculum vitae, current and proposed research summaries, statement of teaching interests, and recent publications; and have three letters of recommendation sent by: Dr. Anna Tan-Wilson, Department of Biological Sciences, SUNY-Binghamton, Binghamton, NY 13901 by 18 December 1988. SUNY-Binghamton, one of the four university centers of the SUNY system, has a reputation for excellence in undergraduate studies and is committed to growth in research and graduate education. The research interests of faculty in the department span the range from molecular and cellular to organismal and population biology. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST/IMMUNOLOGISTS: Tenure-track positions (two), at the assistant professor level (with possible promotion to associate professor rank, as available). The candidate is expected to have a strong background in microbiology and must have demonstrated expertise in research. The successful candidate will be expected to develop a research program that uses a molecular biological approach in the study of microbial systems. The research area may include, but is not limited to, basic microbiology as well as specialized graduate courses. Send curriculum vitae, current and proposed research summaries, statement of teaching interests, and recent publications; and have three letters of recommendation sent by: Dr. Anna Tan-Wilson, Department of Biological Sciences, SUNY-Binghamton, Binghamton, NY 13901 by 18 December 1988. SUNY-Binghamton, one of the four university centers of the SUNY system, has a reputation for excellence in undergraduate studies and is committed to growth in research and graduate education. The research interests of faculty in the department span the range from molecular and cellular to organismal and population biology. An Equal Opportunity/Affirmative Action Employer.

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MOLECULAR BIOLOGY/NEUROSCIENCES

ASSISTANT OR ASSOCIATE PROFESSOR of neurosciences. Requirements: PH.D. with preparation in neurosciences and anatomy; commitment to teaching podiatric medical students and graduate students; minimum 3 years of relevant research experience; potential for extramural funding. Send curriculum vitae, two references, and a statement of research interests to: Dr. Thomas Pederson, Chairman, Department of Podiatric Medicine, 1500 Madison Avenue, Shrewsbury, New Jersey 07702. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLoGISTS/IMMUNOLOGISTS: Tenure-track positions (two), at the assistant professor level (with possible promotion to associate professor rank, as available). The candidate is expected to have a strong background in microbiology and must have demonstrated expertise in research. The successful candidate will be expected to develop a research program that uses a molecular biological approach in the study of microbial systems. The research area may include, but is not limited to, basic microbiology as well as specialized graduate courses. Send curriculum vitae, current and proposed research summaries, statement of teaching interests, and recent publications; and have three letters of recommendation sent by: Dr. Anna Tan-Wilson, Department of Biological Sciences, SUNY-Binghamton, Binghamton, NY 13901 by 18 December 1988. SUNY-Binghamton, one of the four university centers of the SUNY system, has a reputation for excellence in undergraduate studies and is committed to growth in research and graduate education. The research interests of faculty in the department span the range from molecular and cellular to organismal and population biology. An Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST: Butler University is seeking to fill a tenured-track position at the assistant professor level to begin fall 1989. Butler emphasizes liberal education for undergraduates. Candidates should be broadly trained in biology with teaching interests in plant physiology. Training in molecular biology is desirable. Teaching responsibilities will include participation in introductory biology and upper division courses as well as supervising undergraduate research projects. A Ph.D. is required. Send curriculum vitae, a list of references and three letters of recommendation to: Dr. John Butler, Department of Biological Sciences, Butler University, Indianapolis, IN 46208. Butler University is an Equal Opportunity/Affirmative Action Employer.

NEUROSCIENCES

assistant or associate professor of neurosciences. Requirements: PH.D. with preparation in neurosciences and anatomy; commitment to teaching podiatric medical students and graduate students; minimum 3 years of relevant research experience; potential for extramural funding. Send curriculum vitae, two references, and a statement of research interests to: Dr. Thomas Pederson, Chairman, Department of Podiatric Medicine, 1500 Madison Avenue, Shrewsbury, New Jersey 07702. An Equal Opportunity/Affirmative Action Employer.

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MOLECULAR BIOLOGY/NEUROSCIENCES

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The University of Texas Health Science Center at San Antonio (UTHSC-SA) includes the following schools: Allied Health Sciences, Dental, Medical, Nursing, and the Graduate School of Biomedical Sciences. Planning is underway for a major research building to house The University of Texas Health Science Center’s Institute of Biotechnology (UTIBT), and the structure will be completed during the Summer of 1989. The UTIBT represents the cornerstone research facility for the 1500-acre Texas Research Park. The UTIBT is funded by state and private sources which include support for three endowed chairs and other faculty and staff positions. The director and faculty will hold academic appointments in established university departments. The UTIBT will be involved in the development of its own research strategies, technologies and products for transfer to the private sector, and in collaborative activities with other UTHSC-SA faculty and neighboring research institutions. It is intended that one focus of the UTIBT will be molecular pathogenesis and diagnosis of disease, although numerous other possibilities exist, depending upon the interests and qualifications of the director and the UTIBT research staff. This is a unique opportunity for an outstanding scientist with administrative experience to establish innovative research programs and to create an environment for technology transfer in close association with the developing Texas Research Park. The Director of the UTIBT will report to the Dean of the Graduate School of Biomedical Sciences. The UTIBT is located Southwest of the UTHSC-SA in the rolling hills and sylvan setting of San Antonio with easy access to the UTHSC-SA, downtown San Antonio, and the Texas Hill Country.

Please send curriculum vitae, a statement of current accomplishments and future research goals and the names of four references by December 30, 1988 to Dr. Joel S. Baseman, Chairman of Search Committee for UTIBT Director, Department of Microbiology, The University of Texas Health Science Center at San Antonio, 7755 Floyd Curl Drive, San Antonio, TX 78284-7758. UTHSC-SA is an equal opportunity, affirmative action employer.

LANSDOWNE CHAIR
Faculty of Arts and Science
University of Victoria
Victoria, British Columbia, Canada

Applications are invited for a new chair in biological sciences in the expanded program in forest biotechnology and regeneration. The successful applicant will be a person of national and international reputation who will enhance and encourage scholarship in the area of forest tree physiology. The program currently has three faculty members conducting research in tree development, tissue culture and molecular biology of forest trees. Two additional faculty members will be hired in the areas of tree physiology and plant biochemistry. The research and graduate program offers M.Sc. and Ph.D. degrees in the field of forest biotechnology and regeneration. The successful candidate for this chair will be appointed in the Department of Biology in the Faculty of Arts and Science.

Salary, conditions and benefits are to be negotiated, but they will be in line with terms of appointment associated with comparable senior academic positions in the faculty. Canadian immigration regulations require the University to access applications from Canadian citizens and permanent residents before others.

Applications, including full curriculum vitae and the names of three referees, will be accepted until December 31, 1988 and should be submitted to Dr. John T. Weaver, Acting Dean of Science, Faculty of Arts and Science, University of Victoria, P.O. Box 1700, Victoria, B.C., V8W 2Y2, Canada. Telephone: (604) 777-2920, Fax: (604) 777-4663.

The University of Victoria has approximately 500 faculty members, 11,000 undergraduate students and over 1,000 graduate and students. The division of science, within the Faculty of Arts and Science, offers degrees in biochemistry, microbiology, biology, chemistry, computer science, mathematics, physics and astronomy.

The University of Victoria offers equal employment opportunities to qualified male and female applicants. Women are particularly encouraged to apply.
PLANT ECOLOGIST—The Department of Biological Sciences at the University of Wisconsin–Milwaukee (UWM) is seeking an anticipated faculty position at the level of ASSISTANT or ASSOCIATE PROFESSOR. We are seeking a person using innovative approaches to teach, research, and community activities. The position offers broad opportunities for a versatile scientist to collaborate with existing faculty in ecological and evolutionary biology. Candidates for the tenured level should have an outstanding record of teaching, research, and grant support. UWM is a major Ph.D-granting urban university. Research facilities include the UWM Field Station, which has a diversity of habitats from bog lakes to upland forests, and the Center for Great Lakes Studies located on Lake Michigan in Milwaukee. Applicants should send curriculum vitae, statements of research plans and teaching interests, reprints of selected publications, and at least three letters of recommendation to: Charles, Plant Ecologist Search Committee, Department of Biological Sciences, University of Wisconsin–Milwaukee, P.O. Box 413, Milwaukee, WI 53201.

PLANT PHYSIOLOGIST/MOLECULAR BIOLOGIST, ASSISTANT OR ASSOCIATE PROFESSOR, Oklahoma State University, Tenure-track, 12-month position with emphasis on plant responses and adaptations to environmental stress. Must have Ph.D., preferably in the plant sciences, and demonstrated experience in any aspect of plant physiology. Postdoctoral experience is desirable. Send statement of professional goals/research interests, curriculum vitae, reprints, college transcripts, and at least three letters of reference to: Dr. Robert O. Headrick, Head of the Department of Agronomy, Oklahoma State University, Stillwater, OK 74078. Oklahoma State University is an Equal Opportunity Employer.

PLANT PHYSIOLOGY

The Department of Biology at the University of Utah, continuing its development in plant biology, invites applications for a TENURE-TRACK POSITION in plant physiology. We seek candidates with extensive backgrounds in plant biology who will establish a strong research program and contribute to instruction at undergraduate and graduate levels, including a basic course in plant physiology. We particularly hope to appoint a colleague who can establish productive interactions with existing programs in the Department. This position may be filled at either a junior or senior level. Under exceptional circumstances, a second position may be filled, pending budgetary approval. Address applications or nominations to: Dr. James Ehleringer Plant Physiology Search Committee Department of Biology University of Utah Salt Lake City, UT 84112

POSTDOCTORAL FELLOW/SENIOR RESEARCH ASSOCIATE position available immediately to study the effects of radiation on the development of a newly identified cancer leukemia related gene. Experience in molecular biology is essential. This research will be performed at the SUNY Health Science Center at Brooklyn, New York. Send curriculum vitae and names of three references to: Dr. G. F. Arveh, VA Hospital (111E), 2215 Fuller Road, Ann Arbor, MI 48105. An Equal Opportunity Employer.

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE position is available immediately to study the effects of radiation on the development of a newly identified cancer leukemia related gene. Experience in molecular biology is essential. This research will be performed at the SUNY Health Science Center at Brooklyn, New York. Send curriculum vitae and names of three references to: Dr. G. F. Arveh, VA Hospital (111E), 2215 Fuller Road, Ann Arbor, MI 48105. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWS: Ph.D. organic or medicinal chemistry preferred to work on project involving the design and synthesis of inhibitors of neuropode degrading enzymes. This fellowship is supported by a training grant from the National Institute of Drug Abuse (NIDA). Requirements are a Ph.D. or M.D. degree and U.S. citizenship or permanent resident. Salary: NIDA stipend plus supplement. Immediate availability. Send curriculum vitae and names of three references to: Dr. Robert L. Levy, Institute for Clinical Pharmacology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWS: Ph.D, medicinal chemistry preferred to work on project involving the design and synthesis of inhibitors of neuropode degrading enzymes. This fellowship is supported by a training grant from the National Institute of Drug Abuse (NIDA). Requirements are a Ph.D. or M.D. degree and U.S. citizenship or permanent resident. Salary: NIDA stipend plus supplement. Immediate availability. Send curriculum vitae and names of three references to: Dr. Robert L. Levy, Institute for Clinical Pharmacology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284. An Equal Opportunity Employer.

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POSTDOCTORAL POSITION—1 December 1988. To study the chemistry, enzymology, and structure of neurotransmitter and related peptides and their receptor proteins. Areas include peptide synthesis, protein/peptide chemistry, cell culture, and molecular modeling. Send curriculum vitae and names of three references to: Dr. Robert B. Harris, Virginia Commonwealth University, Department of Biochemistry, Box 614, Richmond, VA 23298. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available in molecular neurobiology to study voltage-dependent Ca channels expressed in m.d.f. injected Xenopus oocytes. Background in molecular biology or electrophysiology would be helpful. Send curriculum vitae and names of three references to: Dr. John P. Leonard, Department of Biological Science, MC/066, University of Illinois at Chicago, PO Box 4348, Chicago, IL 60680. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: available 1 January 1989 to study the bioenergetics and biogenesis of the cytochrome b-6 complex of yeast mitochondria. Background in membrane biochemistry and/or molecular genetics preferred. Send curriculum vitae and the names of three references to: Dr. Diana S. Beatrice, Professor and Chairman, Department of Biochemistry, West Virginia University School of Medicine, Morgantown, WV 26506. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION for 2 years in alcohol research available immediately. Studies include the hormonal regulation of ethanol metabolism in primary hepatocytes culture and the effects of ethanol on gluconeogenesis in vivo and in hepatocyte culture. U.S. citizen or permanent resident. Send letter of application and curriculum vitae to: Esteban Menez, M.D., Professor of Medicine, The Johns Hopkins University, Hunt 415, 725 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL POSITION available immediately for research on the structure and function of mitochondrial outer membrane. A combination of protein biochemistry and molecular cell biological approaches will be used in these studies. Candidates should be recent Ph.D.'s. Experience in protein purification, phospholipid metabolism or membrane biochemistry is desirable. Send curriculum vitae and names of three references to: Dr. Dipak Haldar, Department of Biological Sciences, St. John's University, Jamaica, NY 11439. St. John's University is an Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION in computational chemistry available immediately. The project involves developing novel numerical methods for searching for molecular conformation, especially as applied to peptides and proteins. Send curriculum vitae and names of three references to: Dr. G. M. Crippen, College of Pharmacy, University of Michigan, Ann Arbor, MI 48109.

POSTDOCTORAL POSITION available 1 December, 1988 for NIH-funded study of protective immunity in rilassus. We are looking for an imaginative person with experience in protein chemistry and/or molecular biology to complement ongoing program. Experience in parasitology is not essential. Send curriculum vitae and names of three references to: Dr. Jonathan Well, M.D., The Jewish Hospital at Washington University Medical Center, 216 South Kingshighway, St. Louis, MO 63110.

POSTDOCTORAL POSITION available to study structure/function of post-translational processing of neuroendocrine proteins (proteolysis, phosphorylation, sulfation). Experimental approaches may include: cell culture, HPLC, immunochemistry, peptide synthesis and sequencing, and FAB mass spectrometry. Send curriculum vitae and names of three references to: Dr. Ruth Hogue Angeletti, Developmental Biology and Cancer, Albert Einstein College of Medicine, 1300 Morris Park Boulevard, Bronx, NY 10461. Equal Opportunity Employer M/F/H/V.

HELP US TURN RESEARCH INTO REALITY

We're The R.W. Johnson Pharmaceutical Research Institute, a member of the Johnson & Johnson Family of Companies. Our strategy is to maintain a fast-growing pharmaceutical business by continuing to discover and develop products of the highest quality. More than 4,000 trademark registrations worldwide attest to our past. A variety of therapeutic drug categories attest to our future. You can be part of this exciting and meaningful environment and give your career new momentum if you meet the requirements of one of the following openings.

Sr. Associate Scientist/ Associate Scientist
(Immunopharmacology)

The senior level position requires an MS or equivalent in Physiology, Biophysics or Radiobiology and 5-8 years' experience or a BS or equivalent and 7-10 years' experience. To qualify at the Associate level, you should have 2-5 years' or 4-7 years' experience with MS or BS or equivalent respectively. You must be able to work with small laboratory animals and conduct the bioassay of erythropoietin by determining the incorporation of radioactive iron into newly produced red blood cells. To qualify at the senior level, you must have demonstrated ability to supervise technical personnel, familiarity with GLP operation, and experience handling radionuclides. To qualify at the Associate level, you should have radiation experience and familiarity with computers, data handling and statistical analysis of data. (Dept. 75A)

Associate Scientist
Research Associate
(Immunopharmacology)

Requires MS/BS or equivalent in Pharmacology or Biology and 2-7 years' experience for Associate Scientist or 0-2 years' for Research Associate. You will investigate different methods for the bioassay of erythropoietin. You must be able to work with laboratory animals to confirm results of independent investigators and develop alternatives to the current EPO bioassays. You should have research experience in developing new assay methodologies in vivo, and be able to take a known biological pathway and restructure it to assay pharmacologic agents. (Dept. 75B)

Research Associate
(Micro Validation)

Requires MS or equivalent in Microbiology or a BS and 2 years' experience in an industrial microbiological laboratory. You will prepare written investigations and protocols as appropriate to the microbiological validation of non-sterile products. This includes collecting both product and environmental samples, preparing them for testing, and performing a variety of tests on the samples collected. (Dept. 75C)

We offer competitive salaries and the comprehensive benefits you would expect from a Johnson & Johnson Company. We invite you to forward your resume, including salary requirements, to: Mr. Georgia Grant, Ortho Pharmaceutical Corporation, Dept. 4 as indicated above, PO. Box 300, Raritan, New Jersey 08869-0962.

An Equal Opportunity Employer, M/F

ORTHO PHARMACEUTICAL CORPORATION

A Johnson & Johnson Company

A LOT MORE THAN YOU THINK
MEDICINAL CHEMIST

The Microbiology and Infectious Diseases (MID) Program of the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health is seeking a Medicinal Chemist to join the Antiviral Substances Program. The Program is responsible for planning and directing a Federal program of extramural research projects for the discovery and preclinical development of potential therapies for the treatment of viral diseases other than AIDS. Major efforts include drug discovery and synthesis, in vitro screening, evaluation in animal models for efficacy and pharmacokinetics and clinical trials. The medicinal chemist will have preliminary responsibility for managing synthetic, screening, and pharmacokinetic activities of the Program. The medicinal chemist will also organize workshops and make recommendations for program directions and new activities. Salary commensurate with training and experience, but is anticipated to be at the GM 13/14 level ($39,501-$46,679). A Ph.D. in a chemical, pharmacologic or microbiological science and at least three years of relevant research experience is required. U.S. citizenship is required.

Send curriculum vitae, bibliography and names of references to:

Dr. Catherine Laughlin
Development and Applications Branch
MIDP, NIAID, NIH, PHS
5333 Westbard Avenue, Room 750
Bethesda, Maryland 20892
(301) 496-7051

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

The Immunology Department of BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., a highly respected and rapidly growing pharmaceutical company, is seeking an experienced Scientist for our Research and Development Center located in DANBURY, CONNECTICUT.

The individual we seek should have an M.S. degree in Biochemistry with 3 years experience or a B.S. degree with 7 years experience. Requirements include an understanding of Immunology or Cell Biology, Immunochemical techniques, lab experience with gel electrophoresis systems, affinity chromatography, protein purification, sterile techniques and the ability to integrate biochemical and cell biology techniques is desirable.

This position is responsible for the independent performance of routine and non-routine lab duties, design, execution and interpretation of experiments and assisting in the development of new research areas and protocols.

BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., offers a highly competitive compensation and benefits package, relocation assistance, excellent work environment and the opportunity to have your contributions recognized.

Please send your resume and salary requirements to:
Dept. PTG-10, BOEHRINGER INGELHEIM
PHARMACEUTICALS, INC., 90 East Ridge, P.O. Box 368,
Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/c.

Boehringer Ingelheim

School of Animal and Microbial Sciences

PROFESSORSHIP OF MOLECULAR BIOLOGY

Applications are invited for the newly established Professorship of Molecular Biology. Candidates should have an established reputation in cellular or molecular biology including fields such as development, gene expression, immunology or oncology.

The Professor will be expected to contribute to developments and research leadership in molecular biology throughout the School of Animal and Microbial Sciences.

The Professor will be based in the Department of Pure and Applied Zoology but an applicant's interests need not be in the areas conventionally viewed as zoological.

A Research Fellowship for a fixed term of five years will be assigned to the Professorship.

The appointment will be made from a date to be agreed with the successful candidate.

Further information may be obtained from the Registrar, Room 212, Whiteknights House, P.O. Box 217, The University, Whiteknights, Reading RG6 2AH.

The closing date for applications is 14 November 1988.
BS/MS SCIENTISTS

Toxicology Division

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. In 1988, Lilly is investing over $500 million in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories and Biochemical Development Divisions are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking self-motivated, innovative scientists for the Toxicology Division.

Biochemist/Neurobiologist
- To actively participate in the design, execution, and analysis of experiments examining the neurochemical/ neuroendocrinological functions of the brain.
- Bachelor's or Master's degree in Physiology, Biochemistry or Neurobiology required.
- Experience in areas such as HPLC, RIA, brain dialysis probes, reverse hemolytic plaque assay, or in situ hybridization techniques preferred.
- Excellent oral and written communication skills necessary.

Microbiologist/Cell Biologist
- To assess the genotoxic potential of new drug candidates through the conduct of in vitro tests in bacterial and cultured cells and to contribute to the development of novel methods to predict chemical carcinogenesis.
- Bachelor's or Master's degree in Life Sciences area required, with training in microbiology, cell biology, or a related discipline.
- Laboratory experience preferred in cell culture methodologies.
- Excellent oral and written communication skills necessary.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate's experience.

For prompt consideration, please forward your resume to:

Maria L. Poor
Science Recruitment (AT3)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available 1 December 1988, to study structure-function of high molecular weight actin crosslinking proteins, primarily in platelets and smooth muscle. Recent experience with the isolation of actin or actin binding protein will be investigated using peptide domains together with biochemical and protein chemical, statistical mechanics, and/or physical-organic chemistry. Experience in an academic computing environment is required, and further experience in computer programming and vector architecture systems such as the CRAY XMP/48 is highly desirable. The starting salary depends upon qualifications. Recruitment and selection will be completed by 1 December 1988.

Interested individuals may submit curriculum vitae and a statement of research experience and interests to: Search Committee JR
The Salk Institute for Biological Studies
P.O. Box 85800
San Diego, CA 92138–9216
Equal Employment Opportunity M/F/H.V.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION IN PLANT MOLECULAR BIOLOGY

To work on one of the following: (i) evolution of gene families involved in rust disease resistance; (ii) interaction of rust pathogen with plant defense: the role of rust proteinase, and the role of rust pathogen product within and among the plant genomes; (ii) molecular evolution of flower-pollinator interaction. Other topics in molecular evolution might also be suitable. Position available January 1989 or later. Write to: Eran Pichersky, Biology Department, The University of Michigan, Ann Arbor, MI 48109.

The University of Michigan is a nondiscriminatory Affirmative Action Employer.

POSTDOCTORAL POSITIONS OPEN

POSTDOCTORAL POSITION IN MOLECULAR ViroLOGY. A postdoctoral position is available to study the regulation of gene expression in cells infected with herpes simplex virus. The successful candidate will join a research group interested in characterizing the transcriptional mechanisms of viral DNA half-lives, as well as cis acting signals that distinguish mRNAs with different stabilities. The work will include construction and analysis of a genetic system and sequence analysis of whose product has been shown to regulate mRNA stability. Applicants should have a strong background in molecular biology, virology, or molecular genetics. Send curriculum vitae and three letters of recommendation to:

Dr. G. Sullivan Read
Department of Microbiology
University of North Carolina
Chapel Hill, NC 27514

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

COLUMBIA UNIVERSITY

A postdoctoral position is available for an individual with a background in molecular genetics or biochemistry to study the structure and function of RNA polymerase II in E. coli. The individual will participate in ongoing studies of: (a) regulation of RNA synthesis and secretion by bacterial RNA polymerases; (b) the role of RNA polymerase-ribosome complexes; (c) the regulation of RNA synthesis and secretion by bacterial RNA polymerases; and (d) the regulation of RNA polymerase-ribosome complexes. The successful candidate must have a strong background in molecular biology, and experience with nucleic acid hybridization and biochemical techniques. Send curriculum vitae and three letters of recommendation to:

Dr. J. D. C. Cunningham
Department of Microbiology
Columbia University
710 West 168 Street
New York, NY 10032

POSTDOCTORAL POSITIONS OPEN

THE SALK INSTITUTE

POSTDOCTORAL POSITION IN COMPUTATIONAL BIOCHEMISTRY

The Clayton Foundation Laboratories for Peptide Biology of The Salk Institute for Biological Studies is seeking a candidate to undertake research in molecular modeling of receptor-bound analogs of native proteins and analogs using molecular dynamics, energy minimization, and state-of-the-art conformational search and analysis procedures to understand the role of conformation in biological activity. The ideal candidate will have a strong background in computational chemistry, theoretical chemistry, and physical-organic chemistry. Experience in an academic computing environment is required, and further experience in computer programming and vector architecture systems such as the CRAY XMP/48 is highly desirable. The starting salary depends upon qualifications. Recruitment and selection will be completed by 1 December 1988.

Interested individuals may submit curriculum vitae and a statement of research experience and interests to: Search Committee JR
The Salk Institute for Biological Studies
P.O. Box 85800
San Diego, CA 92138–9216
Equal Employment Opportunity M/F/H.V.

POSTDOCTORAL RESEARCH ASSOCIATES

POSTDOCTORAL RESEARCH ASSOCIATE

Please submit curriculum vitae and three references to: Dr. N. M. Provder, University of California, Berkeley, CA 94720.

POSTDOCTORAL RESEARCH ASSOCIATE

Please submit curriculum vitae and three references to: Dr. J. D. C. Cunningham, Department of Biochemistry, Columbia University.

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POSTDOCTORAL RESEARCH ASSOCIATES

POSTDOCTORAL RESEARCH ASSOCIATES

Please submit curriculum vitae and three references to: Dr. J. D. C. Cunningham, Department of Biochemistry, Columbia University.
POSTDOCTORAL RESEARCH ASSOCIATE position available immediately to study the biology of cell surface proteoglycans of epithelial and stromal cells. Experience in recombinant DNA methods and cell development is desirable. Send curriculum vitae to: Dr. Alan Rapaport, Department of Pathology, University of Wisconsin, 1300 University Avenue, Madison, WI 53706.

POSTDOCTORAL RESEARCH ASSOCIATE/RESEARCH ASSOCIATE PROFESSOR: Pathobiology department at the University of Pennsylvania seeks a position for a recent Ph.D. or a person with postdoctoral training. Salary and position depend on experience. Candidate must have experience with standard molecular biology techniques, and will be expected to take an active part in further developing and carrying out research in developmental or pathobiological aspects of smooth muscle in an ongoing program. Send resume, statement of research interests, names of three references to: Dr. Samuel R. Chacko, Department of Pathobiology, 389 E. School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce, Philadelphia, PA 19104. University of Pennsylvania is an Equal Opportunity/Affirmative Employer.

POSTDOCTORAL RESEARCH FELLOW position to investigate the role of neuronal growth factors, e.g., NGF in neuronal plasticity and axonal growth in the mature mammalian brain. Applicants should have prior training in one or more of the following areas: tissue culture, biochemistry (protein purification, ELISA, hplc), histology (immunohistochemistry), or molecular biology. Send curriculum vitae and the names of three references to: Keith A. Croucher, Ph.D., Department of Neurosurgery, University of Cincinnati Medical Center, Cincinnati, OH 45267.

POSTDOCTORAL TRAINING OPPORTUNITIES: Positions are available immediately to study the biochemical mechanisms of antiviral peptide transport and metabolism at the blood-brain barrier using an established tissue culture model. Background in biochemistry and experience with cell culture, peptides, and HPLC desirable. Send curriculum vitae, summary of research experience, and the names of three references to: Dr. Kenneth L. Anderson, Department of Pharmaceutical Chemistry, The University of Kansas, Lawrence, KS 66045–2504. Telephone: 913–864–3609.

PROFESSORSHIP AT UCLA MICROBIOLOGY OF ORGANISMS FROM EXTREME HABITATS DEPARTMENT OF MICROBIOLOGY AND CENTER FOR THE STUDY OF LIFE IN EXTREME ENVIRONMENT (CSLEE)

University of California, Los Angeles (UCLA) is recruiting a general microbiologist with an established research program in the areas of molecular genetics, evolutionary biology or physiology of organisms which thrive under and require extremes of temperature, pH or salinity. This appointment can be made at any level from assistant professor to professor. There is special interest in candidates whose research focus is on sulfur respiring, chemolithoautotrophic anaerobes. Teaching responsibilities within the Department will be in the candidates’ area of research interest.

The professor will have the opportunity to interact with investigators from the Departments of Chemistry, Biochemistry, Chemical Engineering, Geology, and Biology and from the MBI in the newly formed Center for Study of Life in Extreme Environments. UCLA has committed substantial resources to the Center to create a facility for scale-up fermentation of “extremophiles” to facilitate study of their cellular processes and macromolecules.

Please submit curriculum vitae, brief description of research goals, and the names of at least three references, by 15 November 1988 to: Dr. C. Fred Fox, Chairman of Search Committee, Department of Microbiology, University of California, Los Angeles, CA 90024. UCLA is an Equal Opportunity/Affirmative Action Employer.

Enrico Fermi Scholar Program in Science and Engineering

Argonne National Laboratory seeks outstanding doctoral degree recipients for these distinguished research appointments. Individual Enrico Fermi Scholar opportunities will be available in most research areas at Argonne including Biology, Chemistry, Mathematics and Computer Science, Materials Science, Condensed Matter studies at the Intense Pulsed Neutron Source, Nuclear Physics, Atomic Physics, High Energy Physics, TeV Advanced Photon Source related accelerators and materials studies, Chemical Technology, Reactor Safety, Materials and Components Technology, Reactor Physics, Energy and Environmental Science and Technology, and Engineering.

Honoring Enrico Fermi who founded the laboratory which became Argonne, these appointments are intended to recognize scientists and engineers who exhibit the potential to emerge as leaders in their field. Appointments will be awarded on a competitive basis to promising scientists who are about to earn a doctorate or who have earned one within the last three years. Candidates should submit a resume and a statement of research interests. Applicants will be evaluated by a group of sta staff members assembled for this purpose in the appropriate Argonne Divisions. The candidates' excellence and creativity in research will be the basis for final selections.

Annual stipends will range from $35K to $50K, depending upon discipline and experience. Appointments will be for two years.

For more information and application material, write to: Ronald A. Johns, Appointments Office, Ref. DE-PA-55, Argonne National Laboratory, 9700 So. Cass Avenue, Argonne, IL 60439. Completed applications must be received by January 1, 1989. Argonne is an affirmative action/equal opportunity employer.

ARGONNE NATIONAL LABORATORY
University of Chicago/DOE

Microbiologist
Entry-Level

CIBA-GEIGY's Agricultural Division has an excellent opportunity for a Microbiologist in our genetic engineering and crop improvement program. Long recognized as one of the world's foremost producers of crop protection chemicals, we have made a major commitment to Biotechnology research at our facility in Research Triangle Park, NC.

The Scientist we seek will possess a BS in Microbiology, Plant Pathology or a related field. Additionally, the successful candidate will have experience or a strong interest in plant-bacterial interaction, biological disease suppression or plant growth-promoting bacteria. Course work in Biochemistry and Microbial Genetics would be a plus.

You will find that our career support and advancement opportunities are exceptional. CIBA-GEIGY provides a competitive salary and generous company-paid benefits. Please forward your resume and transcript, along with three letters of professional reference, in confidence, to: Dr. Mary-Dell Chilton, Executive Director, P.O. Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY
Graduate and Postdoctoral Biotechnology Fellowships

Iowa has committed nearly $50 million in the last two years to strengthen an effective program of agricultural biotechnology at Iowa State University. Interdisciplinary research teams are addressing opportunities in basic molecular biology and its applications to agricultural development, including plant, animal, and bioprocessing research.

ISU invites applications for graduate and postdoctoral fellowships in its interdisciplinary program of agricultural biotechnology. Graduate stipends are $15,000 per year. Postdoctoral salaries are $22,000 minimum, plus an additional 21.7% in fringe benefits paid by the university.

Graduate and postdoctoral fellows will be a part of the active and stimulating research programs; will use state-of-the-art instrumentation for nucleic acid, protein, cell, image analysis, and fermentation research; and will interact with international leaders in biotechnology research through seminars, symposia, and workshops.

For research project descriptions and fellowship application forms, contact the Office of Biotechnology, 1010 Agronomy, Iowa State University, Ames, Iowa 50011.

Closing date: January 1, 1989.

Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and members of other protected groups are strongly encouraged to apply.

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Applied BioTechnology

Staff Scientist

Applied BioTechnology is a growing company specializing in:

- genetically engineered vaccines for the veterinary and human markets
- novel products for cancer diagnostics and therapeutics based on oncogene technology.

We are seeking an individual with a strong background in protein chemistry to join an interdisciplinary team of scientists in the development of vaccines and cancer diagnostics. This individual will work closely with virologists, immunologists, and molecular biologists in the design of antigen and antibody purification schemes, and in the analysis and characterization of proteins.

Development of own research program related to ongoing projects is encouraged. Knowledge of virology, immunology, or oncogenes is desirable. The successful candidate will have a Ph.D. and 2-3 years of postdoctoral experience.

Please submit your resume or curriculum vitae to:

Applied BioTechnology, Inc.
80 Rogers Street
Cambridge, MA 02142

An Equal Opportunity Employer M/F/H/V

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MANAGING DIRECTOR

PRODUCT DEVELOPMENT GROUP

Molecular Biosystems, Inc., a leader in genetic probe based in vitro diagnostics, has the following opportunity in the Product Development Group of the Diagnostics Division. We seek an individual with at least three years of experience in a commercial diagnostics company managing the development of novel in vitro assays. The position involves total responsibility for the development of new products and clinical trials. A Ph.D. degree in a relevant scientific area, such as Molecular Biology and/or Biochemistry is required. The successful candidate will have a proven record of creative research, project management, regulatory/FDA experience, and supervision of technical and scientific personnel. Molecular Biosystems, Inc., located in San Diego, California offers an excellent salary and benefits package with an opportunity to make major impact on the future growth of the company as a key member of senior management. For consideration, please send your resume and compensation history to:

Molecular Biosystems, Inc.
Human Resources Department
10030 Barnes Canyon Road
San Diego, CA 92121

MOLECULAR BIOSYSTEMS, INC., is an Equal Opportunity Employer

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RESEARCH SCIENTIST

Wyeth-Ayerst Laboratories, a leading pharmaceutical firm in the development and production of prescription drugs, biologics and infant nutritional, currently has a position available in our Radnor facility for a Research Scientist in the Nutritional Research and Development Division.

Major responsibilities will be assessing the antigenic potential of protein sources, as well as participating in studies of other factors in infant formula related to immune function. This senior level position requires a Ph.D. and 3-5 years relevant experience including a thorough knowledge of all immunological techniques with emphasis on humoral immunity. Experience in purifying and characterizing antigenic proteins would be a significant asset. Knowledge of Nutritional principles are preferred.

Explore your exceptional career advantages with Wyeth-Ayerst. We offer a competitive salary, comprehensive company benefits and an innovative environment with top professional colleagues. For confidential consideration, please forward your resume and salary history to: Recruitment Manager, Position #319, WYETH-AYERST LABORATORIES, INC., P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer, M/F/H/V responses encouraged.

WYETH
AYERST

Molecular Biosystems, Inc.
10030 Barnes Canyon Road, San Diego, California 92121
(619) 452-0681
NATIONAL CANCER INSTITUTE
National Institutes of Health, Public Health Service

CANCER PREVENTION FELLOWSHIP PROGRAM (CPFP)

The DIVISION OF CANCER PREVENTION AND CONTROL (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The primary purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control research. The program provides for participation in the DCPC Cancer Control Academic Program (a formal four-month course in cancer prevention and control); 20 months at NCI working directly with individual preceptors on ongoing cancer prevention and control projects; and, one year at a DCPC-approved cancer control program or State Health Department (may be optional). Funding permitting, up to 10 Fellows will be accepted for up to three years of training, beginning August 27, 1989.

APPLICANTS MUST (BY THE DEADLINE):
1. Possess an M.D. or D.O. degree from a U.S., territorial, or Canadian medical school OR foreign medical graduates must have current ECFMG/FMGEMS certification and have completed one year residency in a training program approved by the Accreditation Council for Graduate Medical Education – OR – Possess other accredited U.S., territorial, or Canadian doctoral degree (Ph.D., Dr. P.H., D.D.S., etc.) in a discipline related to cancer prevention and control research (biomedical, medical, nutritional, public health or behavioral sciences). Foreign doctoral graduates must provide documented evidence that the foreign education is comparable to doctoral education received in accredited institutions noted above;
2. Possess U.S. citizenship or be a resident alien eligible for citizenship within four years;
3. Complete and return the application packet by the deadline (including arranging for official academic transcripts and four current, original letters of reference to be sent directly by the academic institutions and referees to the CPFP Coordinator).

For questions concerning the program's scientific or administrative aspects, please contact Dr. Peter Greenwald or Mrs. Barbara Redding at (301) 496-8460. Application packets may be obtained by sending a POSTCARD with your name and home address to CPFP Coordinator, NIH/NCI/DCPC/CCAB, EXPS Terrace Level, 9000 Rockville Pike, Bethesda, MD 20892. Please do not send any material until after you have read the instructions in the application packet.

DEADLINE FOR RECEIPT OF APPLICATIONS: JANUARY 11, 1989
NIH is an Equal Opportunity Employer

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The World’s Foremost Manufacturer of Research Biochemicals And Organic Compounds...

Sigma Chemical Company employs hundreds of staff personnel at our St. Louis laboratory and manufacturing headquarters. Our biochemicals and organic compounds are distributed to a quality conscious international market that relies on our integrity and professionalism. Openings are available in several production, analytical and technical service areas.

PRODUCTION/ANALYTICAL

Fermentation Microbiologist, Molecular Biologist: Requirements include BS, MS in microbiology or biochemistry. 1-3 years experience in large scale microbial and fungal fermentations helpful. Good mechanical aptitude necessary.

Molecular Biology: Requirements include a BS degree in biology or biochemistry with 2-3 years experience in molecular biology or an advanced degree. Duties include the production and analysis of restriction endonucleases, nucleic acid modifying enzymes and nucleic acids.

Enzyme/Protein Analyst: Requirements include a degree in chemistry or biochemistry. 2-3 years experience with traditional wet method chemistry or advanced degree in Biochemistry with emphasis in enzymology including: protein determination, enzyme kinetics preferred.

TECHNICAL SERVICE

These positions offer the opportunity to utilize technical and problem solving skills to provide product information to customers worldwide.

Tissue Culture: Requirements include a degree in biology or biochemistry and 3-5 years general tissue culture lab experience. Scientific writing experience, knowledge of CDP and sterility and validation testing helpful.

Immunochemicals: Requirements include a BS degree in biology or biochemistry along with laboratory experience in one or more of the following areas: Immunohistochemistry, monoclonal antibody development, production and characterization, radioimmunohasay, or tissue culture.

All candidates must possess strong written and verbal communication skills and be able to work independently. Selected applicants will be provided with compensation commensurate with experience and education, plus full company-paid benefits package. Send your confidential resume to: SIGMA CHEMICAL COMPANY, P.O. Box 14508, St. Louis, MO 63178.
**POSITIONS OPEN**

**PROFESSOR AND CHAIR, DEPARTMENT OF MICROBIOLOGY**

Arizona State University (ASU) is searching for candidates for the newly reorganized Department of Microbiology in its pursuit of excellence. The candidates should have an exceptional record of research accomplishments in microbiology and immunology, and a commitment to excellence in the education of graduate and undergraduate students, and demonstrated leadership qualities, particularly in terms of administrative skills in a complex organization. The chair is expected to provide leadership and direction to the expanding Department of Microbiology, and to contribute to the growth and enhancement of the university at ASU. The university is prepared to make an attractive and competitive offer to a highly qualified candidate. Review of applications will begin November 15, 1995, and continue until a suitable applicant is selected. The curriculum vitae should include information and references relevant to an administrative appointment, details of extramural funding, and accomplishments in teaching and research. Send curriculum vitae, recent reprints, and names, addresses, and telephone numbers of three referees to: Microbiology Search Committee, Department of Microbiology, Arizona State University, Tempe, AZ 85287-2701. Full descriptions of the position will be sent to all applicants. Arizona State University is an Equal Opportunity/Affirmative Action Employer.

**PROGRAMMER ANALYSTS**


**POSITIONS OPEN**

**PROFESSOR OF ANATOMY AND CELLULAR BIOLOGY**

Harvard Medical School seeks to fill a tenure-track position with an embryologist whose research has contributed significantly to our understanding of molecular mechanisms regulating the activation of early development. The candidate should exhibit exceptional ability to work at the interface between cell and molecular biology and to establish an active and productive research program. Participation in teaching elective courses in developmental biology to graduate students is also expected. Please submit curriculum vitae and letter of interest: Dr. Elizabeth D. Eady, Chairperson, Department of Anatomy and Cellular Biology, Harvard Medical School, 229 Longwood Avenue, Boston, MA 02115. Harvard University is an Affirmative Action/Equal Opportunity Employer.

**PROTEIN BIOCHEMIST** with excellent scientific credentials to develop his/her own program preferably in the areas of growth factors or receptors to qualify for a tenure-track position at any professorial rank. Submit curriculum vitae, future position and direct three letters of reference to be sent to: Dr. Gerald Litwack, Deputy Director, Fels Institute for Cancer Research and Molecular Biology at the University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

**RESEARCH ASSOCIATE** Immediate openings are available for candidates with experience in molecular biology, biochemistry, and cell biology to work on molecular mechanism(s) of gonadotropins, eicosanoids and growth factors action in reproductive tissues. Address inquiries to: Dr. Ch. V. Rao, Department of Obstetrics, 438 MDR Building, University of Louisville, Louisville, KY 40292.

**RESEARCH ASSOCIATE/ POSTDOCTORAL FELLOW**

**DEPARTMENT OF MOLECULAR BIOLOGY**

**CLEVELAND CLINIC FOUNDATION**

In this newly formed Department several positions are immediately available for research associates, postdoctoral fellows, and technical assistants in the following research groups.


Advanced opportunities exist for outstanding individuals at all levels. Excellent compensation and benefits are available for all positions. Please address all applications or inquiries including curriculum vitae and names of references to: Dennis W. Stacey, Department of Molecular Biology, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-6178.

**RESEARCH LABORATORY SUPERVISOR (Molecular Biology).** The University of Southern California (USC) Department of Ophthalmology/Donohay Eye Institute has an immediate opening in its Morphology Laboratory for a Laboratory Supervisor. This position requires that you function highly independently and as your direct supervisor, assist and advise EM and Histology Technicians as well as a group of six to ten Research Fellows. The qualified candidate will have a Ph.D., Master's degree or equivalent laboratory experience in electron microscopy, immunochemistry, darkroom techniques and handling radioactive materials. USC provides an excellent salary and comprehensive benefits package, including tuition refund. For immediate consideration please forward your resume to: Carmen Carrillo, USC/Donohay Eye Institute, 1358 San Pablo Street, Los Angeles, CA 90033. Telephone: 213-224-7265. Equal Opportunity Employer.

**LIPID BIOCHEMISTS and MOLECULAR BIOLOGISTS**

Sphinx Biotechnologies is a young and rapidly expanding company whose mission is to create novel therapeutic agents to improve human health. Our research and development programs emanate from state-of-the-art and proprietary knowledge of lipid second messengers and lipid mediators, signal transduction mechanisms, biochemistry and cell biology.

**Lipid Biochemist** We are seeking a lipid biochemist to expand and strengthen our established research team working in the area of lipid second messengers. A strong background in lipid enzymology, enzyme purification, protein chemistry and lipid-protein interactions is required with interest in participating in a group directed toward drug discovery and design.

**Molecular Biologist** We are also seeking a molecular biologist to aid with our drug discovery and diagnostic programs. Several projects require cloning, sequencing, and expression experience and a willingness to interface with our discovery and design teams.

A Ph.D. and several years of postdoctoral research experience are required for this faculty-level position.

Sphinx Biotechnologies has state-of-the-art laboratories at two locations and an excellent work environment. In the near future, we shall relocate to an outstanding new facility. We are located in the Research Triangle area of North Carolina.

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Please forward curriculum vitae and/or resume along with list of publications to: Sphinx Biotechnologies P.O. Box 727 77 W. Main Street Durham, NC 27702-0727

Attention: Ms. Sherry Reynolds, Human Resources

Dr. Paul Schollert, Chair
AVP-RGS Search Committee
Office of the Vice President for Academic Affairs
Old Dominion University
Norfolk, Virginia 23529-0011
POSITIONS OPEN

RESEARCH ASSOCIATE. Research on growth, development, and morphogenesis of fungi, with emphasis on the transcriptional and translational regulation of key metabolic pathways. Applicants should have a Ph.D. in biology or a related field and experience in molecular biology techniques. Salary: $45,000 per year. Send curriculum vitae, research statement, and three letters of reference to: Dr. Jane D. Smith, Department of Biology, University of Illinois, 601 South University, Urbana, IL 61801.

POSITIONS OPEN

East Tennessee State University RESEARCH PATHOLOGIST: Senior tenured-track position at the rank of professor for a distinguished pathologist who will have a track-record of extramural funding to head the department's division of research pathology and participate in the university's M.S./Ph.D. program. A molecular biologist is preferred. This position includes a joint appointment with a VA hospital. Salary: $90,000 per year. Send curriculum vitae and three letters of reference to: Dr. John E. Smith, Department of Pathology, P.O. Box 15940A, East Tennessee State University, Johnson City, TN 37614. ETSU is an Affirmative Action/Equal Opportunity Employer, and employs only U.S. citizens and aliens authorized to work in the United States. Women and minorities are encouraged to apply.

RESEARCH TECHNICIAN, Applicants should have a Bachelor's degree in biochemistry or molecular biology and a strong interest in research. This position involves working with basic and advanced techniques used in research on transcription factors and biological pathways. This is a full-time position with benefits. Send resumes to: Dr. Jane D. Smith, Department of Biology, University of Illinois, 601 South University, Urbana, IL 61801.

POSITIONS OPEN

Senior Scientist. Ph.D. in biological science with at least 5 years of experience in cloning and expression in microbial and mammalian systems. Experience in genetic engineering and applications is essential. Salary will be commensurate with qualifications. Send curriculum vitae and three letters of reference to: Dr. John E. Smith, Department of Biology, University of Illinois, 601 South University, Urbana, IL 61801.

POSITIONS OPEN

Department of Speech Pathology and Audiology, The University of Alberta. SPEECH-LANGUAGE PATHOLOGIST: A tenure-track position is available 1 July 1988 at the rank of assistant professor. The applicant must hold a Ph.D. degree in speech-language pathology or related discipline and have experience in clinical settings. The University of Alberta is committed to the principle of equity in employment.

TEACHING POSITION—BIOLOGIST. The Department of Biology, Emory University, invites applications for a teaching position at the assistant professor rank for a non-tenure-track, 1½-year term beginning in January, 1989, with a possibility of renewal for up to 3 years. Emory University is an Affirmative Action/Equal Opportunity Employer. Applicants should hold a Ph.D. in biological science and have experience in teaching at the introductory level. Salary is commensurate with qualifications. Send curriculum vitae and names of three references to: Dr. Jane D. Smith, Department of Biology, Emory University, Atlanta, GA 30322. Review of applications will begin immediately and the position will remain open until filled. Emory is an Equal Opportunity Affirmative Action Employer.

TENURED OR TENURE-TRACK FACULTY POSITIONS

An expanding Department of Biochemistry with an established high quality research environment seeks to recruit two faculty at either the associate professor or junior levels. Applicants must hold the Ph.D. and/or M.D. degree, have at least 2 years of postdoctoral training, and an established record of excellent scientific contributions. Successful candidates will be expected to transfer or establish a vibrant, funded research program and to teach in Medical and Graduate Programs. All fields of biochemistry are encouraged. Women and minority candidates are especially encouraged to apply. The University is interested in increasing the number of women and minorities in these areas. Senior level appointments require a successful track record and previous experience in training graduate students. Applicants should hold a Ph.D. and have experience in training graduate students. Send curriculum vitae, teaching and research statements, and names of three references to: Dr. Michael X. Smith, Chair, Search Committee, Department of Biochemistry, University of Illinois, 601 South University, Urbana, IL 61801. ETSU is an Affirmative Action/Equal Opportunity Employer.

MEDICAL COLLEGE OF OHIO RESEARCH PH.D. IN ORAL BIOLOGY

Immediate opening for Ph.D. with interest in basic research work in oral biology, especially with oral epithelial cells. Experience in tissue culture, histology, histochemistry, and cell biology is highly desirable. The position involves establishing immortalized epithelial cell lines representative of certain epithelial phenotypes and using the cells to evaluate the toxicologic and potential carcinogenic potential of oral materials. Candidates should have 4 to 5 years of research experience in oral biology and currently be funded by governmental or private grants. Salary is competitive with experience. Send letters of application along with curriculum vitae to: William J. Davis, D.D.S., M.S., or Gary D. Stoner, Ph.D., Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43699.

TEACHING POSITION—MOLGENETICS/ MOLECULAR BIOLOGY

The Department of Biology, Washington and Lee University, invites applications for tenure-track teaching position in molecular genetics/molecular biology at the rank of assistant professor. Responsibilities include teaching an undergraduate course in molecular genetics, a course in the applicants specialty and a third course to be determined by departmental needs and applicants interest. Applicants should either have recently completed doctoral work or have postdoctoral experience. Salary is competitive. The successful candidate must be willing to direct undergraduate research in areas of his or her interest. A Ph.D. in molecular biology with a proven record of research in molecular biology is required. Send curriculum vitae, teaching and research statements and names of three references to: Dr. John D. Smith, Department of Biology, Washington and Lee University, Lexington, VA 24450. Closing date for applications is 1 February 1989. Washington and Lee University is an Equal Opportunity Employer.

SCIENCE, VOL. 242
MacArthur Foundation
Postdoctoral Traineeship in Aging

The MacArthur Foundation Research Program on Successful Aging invites applications from graduates of advanced degree programs to conduct research on a collaborative, interdisciplinary study of aging in six sites. Trainees will work with a team of investigators working on longitudinal studies of elderly and will have a unique opportunity to be part of interdisciplinary gerontologic research. While most trainees will be based in laboratories of investigators leading population-based studies, there is also an interest in applicants with a biological or physiological orientation who will see a liaison between these studies and other more clinically-oriented and basic biological studies that are part of the research program. The focus of the studies is on the maintenance of physical and cognitive functioning in a psychosocial and physiologic context and on developing new interdisciplinary approaches to larger issues in health and aging.

Positions are available for M.D.’s or Ph.D.’s with an interest in aging, physiology, neuropsychology, endocrinology, epidemiology, basic biological sciences, biostatistics, psychology, psychiatry, sociology or related fields. Positions are available at Duke University, Harvard University, Yale University, University of Michigan, Pennsylvania State University, and the Karolinska Institute in Stockholm, Sweden. Emphasis will be placed on candidates’ abilities to work in an interdisciplinary setting. Positions are available for terms of 1 to 2 years. Most appointments will be made for July 1989; however, some earlier appointments are possible. Salaries range up to $40,000 commensurate with qualifications and university policy.

Submit curriculum vitae, publications, names of three references, references for a specific site and a 2 page statement including areas of expertise, and future research plans to: Lisa F. Berkman, Ph.D., Department of Epidemiology, Yale School of Medicine, 60 College Street, New Haven, Connecticut 06510. Affirmative Action Employer.

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RESEARCH SCIENTIST CELLULAR PHYSIOLOGY
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RESEARCH SCIENTIST GENE REGULATION
Dept. #348

Qualified candidates for this position will have a Ph.D. and a minimum of 2 years’ postdoctoral experience in eukaryotic post-transcriptional gene regulation, including protein processing and secretion. Familiarity with glycosylation pathways and signal transport at the molecular level is essential.

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MOLECULAR IMMUNOLOGY

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To support our efforts in the Molecular Immunology field, we are seeking a Senior Scientist to develop an aggressive research program on the molecular mechanisms underlying immune regulation of the inflammatory response. You will focus on identifying new targets or mediators involved in initiating or controlling the inflammatory response through application of molecular techniques to in vitro and in vivo models. Extensive interaction with professionals in the areas of immunology, protein biochemistry, pharmacology and molecular genetics will be involved. Publication of research results is encouraged.

You must have a PhD in Biochemistry, Immunology or a related Life Science, coupled with 2+ years’ postdoctoral experience in a relevant field and a strong publication record. A background in immunology, existing models of inflammation (particularly with respect to cytokine involvement) and hands-on experience in molecular biology are preferred.

We offer a comprehensive compensation package including generous benefits, and an atmosphere that encourages excellence. For confidential consideration, please send your resume indicating salary requirements (those without this information will not be acknowledged) to: Mrs. Eleanor M. Malone, Department P.K., Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

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TOXICOLOGIST/ASSISTANT OR ASSOCIATE PROFESSOR

The Primate Research Institute (PRI), New Mexico State University, is looking for a toxicologist, assistant or associate professor. Qualifications: Earned doctorate in toxicology or related field with experience in conduction GLP preclinical drug safety testing and research. Assistant must have at least 1 year of experience; associate professor needs 4 to 5 years of experience in toxicology and a position involves working with a group of scientists interested in toxicology, metabolism and pharmacogenetics of xenobiotics and drugs in non-human primates and rodents. Sufficient time will be made available for individual research interests. The position has primary responsibility for toxicology division at PRI and plays a key role in interdisciplinary teams of evaluating safety and efficiency of new drugs. Benefits include: Group medical and hospital insurance; group life insurance; state educational retirement; workers' compensation; annual and sick leave; and unemployment compensation. Salary: $30,000 to $40,000. The salary will be competitive and commensurate with experience. Send vitae and the salary structure of a position in the field. Offer of employment contingent upon verification of individual's eligibility of employment in the United States. Send resume, letter of interest, and names of two references to: Dr. William C. Hobson, Director Primate Research Institute P.O. Box 1027 Holloman AFB, NM 88330-1027

VETERINARY VIROLOGIST

The Department of Pathology and Microbiology, Atlantic Veterinary College, University of Prince Edward Island, is seeking a tenure-track position in virology. A Ph.D. degree is required and the candidate will have at least 2 years of postdoctoral training. Strong experience in molecular biology and recombinant DNA techniques are required.5 Hoyle will conduct research with viruses of veterinary importance, be responsible for graduate courses and in general provide leadership in molecular virology. Rank and salary will be commensurate with qualifications and experience. In accordance with Canadian Immigration regulations this advertisement is directed first to Canadian citizens and permanent residents. Closing date for applications is 1 December 1988. Preferable starting date is 1 July 1989. Please submit a letter of interest, curriculum vitae and the names of three references to: Dr. J. R. Long, Chairman, Department of Pathology and Microbiology, Atlantic Veterinary College, University of Prince Edward Island, 830 University Avenue, Charlottetown, Prince Edward Island C1A 4P3.

RESEARCH IN CHINA

Grants available to Americans in natural sciences and engineering to conduct research in China and to Chinese scientists for scholarly exchange in the United States. Application deadline 15 November 1988. For application write: Visiting Scholar Exchange Program, Georgia Institute of Technology, 264 Ferst Place N.W., Atlanta, Georgia, 30332, Washington, DC 20418 or call 202-334-2718.

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