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ANATOMY AND CELL BIOLOGY

POSITIONS OPEN

The Department of Anatomy and Cellular Biology of Tufts University School of Medicine, Dental Medicine and Veterinary Medicine, invites applications for tenure-track positions. Applicants should possess a Ph.D., D.V.M., or M.D. degree (or equivalent). These positions involve participation in the teaching of gross anatomy to medical or dental students. Applicants at the assistant professor level must have at least 2 years of postdoctoral research experience, show promise of developing an active and independent research program, and have some experience in the teaching of gross anatomy. Applicants at the associate professor level must have an active, funded research program as well as considerable teaching experience. Major research areas in the department include cell and molecular biology, developmental biology, reproductive biology, and neuroendocrinology. Salary and rank are dependent upon qualifications and experience. Applicants should submit curriculum vitae, names of at least three references and a letter describing research interests and teaching experience. To: Dr. Bryan P. Toole, Department of Anatomy and Cellular Biology, Tufts University School of Medicine, Dental Medicine and Veterinary Medicine, 136 Harrison Avenue, Boston, MA 02111.

Tufts University is an Equal Opportunity/Affirmative Action Employer.

VETERINARY ANATOMY POSITION

The Department of Anatomy and Cellular Biology of the College of Veterinary Medicine and Veterinary Medicine invites applications for tenure-track positions. Applicants should possess a Ph.D. and/or D.V.M. degree (or equivalent). At the assistant professor level, candidates should have at least 2 years of postdoctoral research experience, show promise of developing an independent research program, and have had some experience in teaching veterinary gross anatomy. At more senior levels, applicants must have an active, funded research program and considerable teaching experience in veterinary anatomy. Appropriate research areas in the department include: cell and molecular biology, developmental biology, reproductive biology and neuroendocrinology. We especially seek candidates who plan to join a group involved in molecular, cellular, and physiological studies of early development in laboratory and domestic animals, and transgenic manipulations thereof. Research in male gamete biology and implantation embryology are of particular interest. This group is located at our Veterinary School campus in Grafton, Massachusetts. They are 15 miles west of Boston. This attractive and spacious campus provides unique opportunities for multidisciplinary research with large and small domestic animals. Salary and rank are dependent upon qualifications and experience. Applicants should submit curriculum vitae, names of at least three references, and a letter describing research interests and teaching experience. To: Dr. Bryan P. Toole, Chair, Department of Anatomy and Cellular Biology, Tufts University School of Medicine, Dental Medicine and Veterinary Medicine, Boston, MA 02111.

ASSISTANT PROFESSOR OF WILDLIFE TERRESTRIAL VERTEBRATE ECOLOGY

A 9-month, tenure-track position located in the School of Natural Resources at the University of Michigan. Applicant must possess a doctoral degree in wildlife or terrestrial vertebrate ecology; postdoctoral and teaching experience is preferred. Applicants must demonstrate research and teaching capability. Research interests will include the maintenance of a strong research program and advising graduate students in the area of terrestrial animal ecology, as well as teaching a course in this program. Teaching will include courses in an academic year, including: wildlife ecology, vertebrate natural history, an advanced seminar in current topics, and a periodic involvement in interdisciplinary team-taught courses. Applicants with some expertise and experience in conservation ecology (for example—rare species, biological diversity, wild area ecology, and so forth) are preferred. Interested candidates should send curriculum vitae and three letters of recommendation to: Dr. J. Dewey, Chair, Department of Natural Resources, The University of Michigan, Ann Arbor, MI 48109–1115. The University of Michigan is an Equal Opportunity Employer.
Professor and Chairperson
Department of Neurobiology and Behavior

The State University of New York at Stony Brook invites applications for the position of Chairperson of the Department of Neurobiology and Behavior.

The department presently consists of 19 faculty, whose research interests span the range from molecular through integrative neuroscience.

As a joint department of the College of Arts and Sciences and the Health Sciences Center, the department serves as a focus for the large community of neuroscientists in other departments of the University and the Medical School. We seek a distinguished scientist to provide vigorous academic leadership.

Nominations and applications (including Curriculum Vitae) should be submitted by no later than May 1, 1987 to: Dr. David C. Glass, Chair, Search Committee for Chair of Neurobiology & Behavior, c/o Department of Psychology, SUNY Stony Brook, Stony Brook, NY 11794-2500.

Telephone: (516) 632-7932.

SUNY Stony Brook is an affirmative action/equal opportunity educator and employer. AK#336-B.
UNIVERSITY OF HAWAII, ASSISTANT PROFESSOR/RESEARCHER IN NEUROSCIENCES. This position is for a joint position in the School of Medicine and the Institute of Molecular Biophysics. Responsibilities include teaching neurobiology courses and conducting research in neuroimmunology. The successful candidate will have a Ph.D. and postdoctoral experience. Applications should be sent to Dr. John Doe, Department of Psychiatry, University of Hawaii, Honolulu, HI 96822. Deadline: 30 April 1987.

ALASKA PACIFIC UNIVERSITY. ASSOCIATE PROFESSOR OF BIOLOGY. This position is available for the fall semester 1987. Responsibilities include teaching courses in cell and molecular biology and conducting research in plant cell biology. The successful candidate will have a Ph.D. and postdoctoral experience. Applications should be sent to Dr. Jane Smith, Department of Biology, Alaska Pacific University, Anchorage, AK 99501. Deadline: 30 April 1987.

BIOLOGICAL AND CHEMICAL SAFETY OFFICER. The University of Texas Science Center at Dallas seeks a professional with experience in the design and implementation of laboratory safety programs. Applications should be sent to Dr. John Doe, Department of Environmental Health and Safety, University of Texas Science Center at Dallas, Dallas, TX 75235.

BIOLOGY. Villanova University invites candidates to apply for a tenure-track position in the Department of Biology. The successful candidate will have a Ph.D. and postdoctoral experience. Applications should be sent to Dr. Jane Smith, Department of Biology, Villanova University, Villanova, PA 19085. Deadline: 30 April 1987.
Research Scientist

Cell Culture Biologist

Since our founding in 1983, we have established ourselves as a pioneer in the development of pediatric vaccines for childhood infectious diseases. Our research staff needs your specialized talents in cell biology.

In this vital, results-oriented position, you'll have responsibility for developing and testing mammalian cell culture systems utilizing current state-of-the-art technology for high-density cell growth, product isolation and purification. Activities will also include overall management and quality control of tissue culture work related to cell and virus stocks. Credentials must include a minimum of an MS (PhD preferred) in Cell Biology and at least 3 years related experience.

Salary is commensurate with academic and professional qualifications. For prompt, fully confidential consideration, please send your resume/curriculum vitae to: Praxis Biologics, Human Resources Department, 300 East River Road, Rochester, NY 14623.

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QUIDEL, a rapidly growing pharmaceutical company in La Jolla, California, invites applicants for the position of

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Scientists sought to develop advanced rapid enzyme immunodiagnostics products. Successful candidates will be talented, well-trained Ph.D.'s or M.D.'s with background in monoclonal antibody technology, immunochemistry and biochemistry and a desire to perform bench research. Positions available for entry-level scientists as well as individuals with demonstrated ability to develop state-of-the-art rapid enzyme immunoassays and bring product through research into development.

Salary is commensurate with background and experience. Excellent benefits package which includes employee incentive stock option program. Send your resume to:

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Personnel Department
Attn: Director of Personnel

QUIDEL
11077 North Torrey Pines Rd., La Jolla, CA 92037
POSITIONS OPEN

**BIOLOGY ASSISTANT PROFESSOR, TENURE-TRACK POSITION** September 1987. Expertise in microbiology or animal ecology required. Send curriculum vitae, statement of teaching and research interests, and three references by 16 March 1987 to: Associate Professor, Southwestern State University, 825 S. State St., Gunnison, CO 81230. AA/EOE.

**LIFECODES CORPORATION**

**CYTOGENETICIST**

Lifecodes Corporation, a rapidly growing biotechnology company, seeks a cyto geneticist to assist with diagnostic services and participate in development of molecular genetics testing. Candidate should have a PhD., good communication and technical skills.

Lifecodes Corporation is located in Westchester, New York. Only 30 minutes from midtown Manhattan. To apply, send curriculum vitae and the names and telephone numbers of three references to: Peter A. Benn, Ph.D. Lifecodes Corporation 4 Westchester Plaza Elmsford, NY 10523

**DEAN OF THE COLLEGE OF MEDICINE UNIVERSITY OF SOUTH FLORIDA**

The University of South Florida is inviting applications and nominations for the position of Dean of the College of Medicine. Substantial administrative experience is expected. Interested persons should send three letters of reference to: Dr. Arnold J. Levine, c/o Laila Coile, Department of Biology, Lewis Thomas Laboratory, Princeton University, Princeton, N.J. 08544. The University is an Equal Opportunity/Affirmative Action Employer. NUF.

**CHEMIST**

To conduct basic original research on the chemistry of molecular rearrangements of organosilicon compounds. M.S. in chemistry with paper experience in synthesis and mechanistic studies of organo-silicon compounds and use of gas chromatography/mass spectrometry instrumentation. Excellent writing and oral communication skills. Must have some refereed publications; $16,987 per year. Send resume to: Iowa Department of Job Service, 330 Main Street, Ankeny, IA 50024. This is a full-time position.

**DEPARTMENT HEAD, Soil and Water Science**

The Department brings together soil scientists dedicated to effective use of soil, water, climate, and energy resources in a desert environment. The department head monitors the research, teaching, and extension programs within the department, coordinates the activities of the department with other units in the college and university, provides leadership in establishing goals and seeking grant support.

**QUALIFICATIONS:** Ph.D. is required with formal training in soil science, water science, or related fields. Candidate should have strong background in basic sciences and a distinguished record in research, teaching, extension and nonacademic professional activities. Experience in multidisciplinary research program important. Candidate should possess outstanding leadership skills, and be adept at interacting with department faculty and staff, college administration, and external agencies and public. Knowledge of basic production agriculture as well as nonagricultural applications of soil and water science are essential. Submit curriculum vitae and addresses of five references knowledgeable of candidate's experience to: Dr. Donald F. Post, Chair, Search Committee, Soil and Water Science, 429 Shante Building, #38, University of Arizona, Tucson, AZ 85721. Applications accepted on or before April 15, 1987.

**DEPUTY ASSISTANT CHIEF MEDICAL DIRECTOR FOR RESEARCH AND DEVELOPMENT (ACMD)—VETERANS ADMINISTRATION (VA)**

Washington, DC. The Deputy Assistant Chief Medical Director for Research and Development has a major role in the management of the intramural program of investigator initiated biomedical research in the VA facilities across the country. About 2500 projects are currently underway with an annual budget of $180 million. We seek a physician with research experience. Salary: Approximately $72,500 and additional special pay up to $19,000. The VA is an Equal Opportunity Employer. Respond with interest and vita to: ACMD—Research and Development (15), VA Central Office, 810 Vermont Avenue, NW, Washington, DC 20420. Closing date: 30 March 1987.

**DIRECTOR CENTER FOR AGRICULTURAL METEOROLOGY AND CLIMATOLOGY (CAMA)**

Seek applicants to fill major academic and research position in Institute of Agriculture and Natural Resources, University of Nebraska—Lincoln. Established in 1979, CAMA currently has a faculty of seven plus several courtesy appointees. Programs include activities in: photosynthesis; evapotranspiration; water efficiency; surface trace gas and micrometeorology; remote sensing; climate impact assessment; collection; processing and dissemination of weather and climate-related data. Inhabitants of the department and the College of Agriculture are integrated into pest management and environmental monitoring.

The director will be expected to devote approximately one-half time to administration and programmatic leadership. Considerable time will be allocated to program officers in federal granting and contracting agencies and scholars in other research institutions. The director reports to the IANR Dean and through them to the Vice Chancellor of the Institute of Agricultural and Natural Resources.

Experience in research and experience in application of meteorology/climatology to agriculture and/or natural resources. Must have leadership and administrative potential. Salary and academic rank will be based on qualifications and experience. Apply by 15 April (or until suitable candidates apply thereafter) to: Dr. Sashi B. Verma, Search Chair Center for Agricultural Meteorology and Climatology 242 L.W. Chase Hall University of Nebraska—Lincoln Lincoln, NE 68583—0728 Telephone: 402-472-6702 Affirmative Action/Equal Opportunity Employer

**ENVIRONMENTAL ENGINEER—GS 11/12**

To conduct basic research on plant canopy-atmospheric interactions as well as other research and development of an environmentally controlled plant growth facility related to a long-term research program on an estuarine/watershed system. Submit a Standard Federal Form 171, "Equal Opportunity Statement of Interest" and a vita to: Mr. David Correll, Smithsonian Environmental Research Center, Box 28, Edgewood, MD 21037—0028 by 6 March 1987. Equal Employment Opportunity Employer.

**CHEMICAL ENGINEERING DEPARTMENT**

The University of Delaware is conducting a search for full-time faculty members to begin July 1987. Include all qualifications and experiences, and any other relevant information.

**DEPARTMENT OF BIOLOGY**

The new faculty member will be expected to develop courses and maintain an active research program and carry out teaching responsibilities.

**DEPARTMENT OF PHYSIOLOGY**

The new faculty member will be expected to develop courses and maintain an active research program and carry out teaching responsibilities.

**DEPARTMENT OF PSYCHOLOGY**

The new faculty member will be expected to develop courses and maintain an active research program and carry out teaching responsibilities.

**CHEMISTRY DEPARTMENT**

The new faculty member will be expected to develop courses and maintain an active research program and carry out teaching responsibilities.

**DEPARTMENT OF BIOLOGY**

The new faculty member will be expected to develop courses and maintain an active research program and carry out teaching responsibilities.
POSITIONS OPEN

DIRECTOR, DIVISION OF INFECTIOUS DISEASES of the Department of Internal Medicine of St. Louis University School of Medicine invites applications and nominations for the position of Director of its Division of Infectious Diseases. We seek a physician-scientist with a substantial publication record and a history of peer-reviewed grant support. The Director will be responsible for organizing, developing, and leading a vigorous research-oriented Division. General Divisional research space and financial support will be provided. Please forward nominations and applications to: Coy D. Finch, M.D., of Internal Medicine, St. Louis University School of Medicine, 1325 South Grand Boulevard, St. Louis, MO 63104. Equal Opportunity/Affirmative Action Employer. M/F/H/V.

ECOLOGISTS/ETHOLOGISTS: The School for Field Studies seeks qualified faculty (Ph.D.A.B.D., field leadership, and research experience) for undergraduate 1-month courses in coral reef ecology (Virgin Islands), wildlife biology (Kenya), endangered species (Switzerland), medicinal botany (Ecuador), and population dynamics of harbor seals (Alaska), and humpback whale ecology (Gulf of Maine). Salary: $1200 to $2100 per month, plus travel/field expenses. Send letter, curriculum vitae, and names of three references to: Program Director, SFS, 376 Hale Street, Beverly, MA 01915.

EXECUTIVE DIRECTOR

The San Diego Natural History Museum seeks an Executive Director. This museum, recently reaccredited, has strong educational programs, exhibits, and scientific research departments with extensive collections, which emphasize the botany, entomology, mammalogy, herpetology, ornithology, paleontology, marine invertebrates and mineralogy of the southwestern U.S. and adjacent areas. The director reports to a Board of Trustees, has duties of overall administration and supervision of a paid staff of 70 persons with an annual budget exceeding $1.5 million. Must have demonstrated abilities in administration, planning and fundraising. Ph.D. required, preferably in a natural history field, and museum experience desirable. Salary and benefits commensurate with experience. To assure prompt consideration, send resume by 15 April 1987 to: Search Committee, San Diego Society of Natural History, P.O. Box 1390, San Diego, CA 92112. Equal Opportunity Employer.

FACULTY POSITION, BEHAVIORAL NEUROBIOLOGY, MOLECULAR NEUROBIOLOGY: Tenure-track junior faculty positions are available for behavioral and molecular neurobiologists at the Department of Psychiatry, Institute for Mental Health Research, SUNY Stony Brook. All outstanding candidates in these areas will be considered, but preference will be given to those with research expertise in behavioral neuropharmacology or molecular genetics. Ph.D. and postdoctoral experience in these areas are required. Successful candidates are expected to develop an independent externally funded research program. Applicants should send their curriculum vitae, names of three references, and a summary of future research goals to: Dr. William M. Nisbet, Department of Psychiatry and Behavioral Science, HSC T-10, SUNY Stony Brook, Stony Brook, NY 11794-8101. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK #3.

UNIVERSITY OF QUEENSLAND
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LECTURER IN ZOOLOGY

Should have a higher degree in biology with demonstrated expertise and teaching experience in the fields of population ecology and genetics. Responsible to the head of Department of Zoology for the organizing and teaching of undergraduate courses in basic and population genetics, and participating in the teaching of other areas in Zoology. Some background in vertebrate biology desirable. Expected to develop own research areas and to supervise postgraduate students in Zoology. Salary per annum: $27,859 to $36,600. Appointment as soon as possible in 1987. Ref. 01387. Closing date 6 March 1987 or as soon as possible. Additional information and application forms available from the Director, Personnel Services, University of Queensland, St. Lucia, 4067, Australia (57038). 20 FEBRUARY 1987

SENIOR SCIENTIST

Drug Disposition

The LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is seeking candidates for two Senior Scientist positions in the Department of Drug Disposition. Applicants must have a doctoral degree and post-doctoral experience is desirable.

Transport Mechanisms

Primary responsibilities involve establishing a research program to elaborate the physiological mechanisms governing the pharmacokinetic behavior of novel antibiotics. This will require development of in vitro and in vivo model systems to study the effect of chemical structure changes on the absorption, distribution, and excretion of drugs. The candidate should have a strong background in pharmacology and physiology with knowledge in the areas of analytical methodology and pharmacokinetics.

Metabolic Transformation

Primary responsibilities involve establishing a laboratory program to study the metabolic disposition of drugs in laboratory animals. This will require investigations to characterize or identify the absorption, distribution, excretion, and metabolite profile of novel drug substances. A strong background in chemistry and analytical methodology is essential.

The positions represent a unique challenge to the qualified scientist interested in conducting innovative research in the area of drug discovery. Qualified candidates should send their curriculum vitae to:

John W. Crooks
Manager, College Relations (DPP)²
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
Equal Opportunity Employer

Dean, School of Medicine
State University of New York
at Stony Brook

The School of Medicine, the State University of New York at Stony Brook is seeking a new Dean to succeed Dr. Marvin Kuchner who is retiring next June. We seek an outstanding individual with an international reputation for scholarly activities and an excellent record of administrative achievement. The Dean must exemplify the School's mission of achieving excellence in research, patient care and teaching, and will be expected to devise creative initiatives to achieve these goals. Candidates must have an M.D. or Ph.D. degree, academic rank of Professor, and five years of administrative experience. In addition, candidates must demonstrate the leadership skills requisite to set the highest standard for medical education; recognize and reward outstanding academic, clinical and pedagogical achievement; integrate the efforts of individual departments in achieving the School's goals; oversee the academic and clinical activities of University Hospital; master the complexities of the School's financing, which come from New York State, research grant support and clinical practice income; and distill and present the collective vision of the School of Medicine to the University administration and the public.

The School of Medicine, established in 1971, is a division of the Health Sciences Center at Stony Brook. It has 420 medical students, 171 Ph.D. candidates, and a full time faculty of 288 supported by the State of New York. The total yearly salary support of $18 million from New York State provides a solid base for the Medical School.

Interested candidates should forward curriculum vitae to Dr. Barry Coller, Professor of Medicine and Pathology, Chairman, Dean Search Committee, Division of Hematology, SUNY Stony Brook, Stony Brook, NY 11794-8151.

SUNY Stony Brook is an affirmative action/equal opportunity educator and employer. AK#929-C.
TECHNICAL SERVICES SUPERVISOR

Immediate opening for a PhD or the equivalent with experience in Molecular Biology. Must have demonstrable skills and experience in technical writing and project administration. Must be able to work under pressure to meet publishing and marketing deadlines. The Technical Services Supervisor is a member of the New Product Launch Team and manages the flow of information between our R&D staff and international marketing units.

This is a position with a high tech growth company. We offer a competitive salary and a complete benefits program. Please send your resume and cover letter to: S. HOIST, ADMINISTRATIVE ASSISTANT, PHARMACIA P-L BIOCHEMICALS, INC., 2202 NO. BARTLETT AVENUE, MILWAUKEE, WI. 53202. We are an equal opportunity employer M/F.

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Applications Specialist

Amersham Corporation, a leading supplier of technical products to the research community, has an immediate opening for an Applications Specialist in our Technical Services Dept.

In this bench position, you will supervise an applications laboratory responsible for enhancing sales of current and future biomedical research products. Specifically, you will design experiments for performing various biomedical techniques with our products and will evaluate results of similar competitive products and/or procedures.

The ideal candidate will have an MS Degree in the life sciences (Biology, Chemistry, Biochemistry) with a strong background in Immunology and at least one year of research laboratory experience including knowledge of ELISA, RIA, and immunocytchemistry. Persons possessing a bachelor’s degree with at least three years research laboratory experience beyond the U.S. will be considered. In addition, you must have excellent technical writing ability and be an independent thinker.

We are offering an excellent starting salary and an attractive benefits package, including dental insurance and a 401(K) savings plan. For prompt consideration please send your resume with salary requirements to:

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SYNTRIO

SYNTRIO, a biotechnology company focusing on the development of vaccines for the animal health market and selected products for the specialty chemical and human health markets, has immediate openings for senior scientists in

IMMUNOLOGY
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To complement existing scientific staff preference will be given to those with experience in:

- Eukaryotic/viral expression systems
- Immunochemistry and monoclonal antibody production

SYNTRIO, located in the heart of the San Diego scientific community, offers a competitive compensation package in an outstanding research environment, as well as excellent opportunities for professional growth. If you would like to contribute to the growth and development of a successful biotechnology company, please send your resume and references to:

Director of Organizational Development
SYNTRIO CORPORATION
10635 Sorrento Valley Road
San Diego, CA 92121

an equal opportunity employer
Staff Scientist

The Health Effects Institute (HEI) is an independent non-profit organization that sponsors and evaluates research on the health effects of automotive emissions. It is jointly funded by the United States Environmental Protection Agency and the domestic and foreign automotive industry. HEI is seeking a staff scientist to work with the Institute’s Health Research Committee and other staff scientists to develop and oversee its research program.

Applicants should have the following qualifications: Ph.D., M.D., or equivalent degree; relevant scientific experience; an interest in science management and environmental problems; and good communication skills. Research experience in the areas of lung physiology and the pathology of chronic lung diseases is desirable. Salary commensurate with experience.


The Health Effects Institute

REQUEST FOR PROPOSALS

The Diagnostic Technology for Community Health (DiaTech) project seeks to develop technologically appropriate assays for the diagnosis of infectious diseases in developing countries. Existing technologies will be adapted and/or new technologies developed, including the means for production, distribution and effective implementation. DiaTech is carried out by the Program for Appropriate Technology in Health (PATH), in collaboration with the United States Agency for International Development (USAID).

Grants are awarded to qualified investigators at public or private institutions in both the developed and developing world. Grants are awarded for up to $150,000 per year for a maximum of two years.

The following diseases are of the highest priority to the project:

- Diarrheal Diseases
- Acute Respiratory Infections
- Tuberculosis

DiaTech will consider proposals which address diseases other than those specified, for which the combination of need and opportunity exists. All proposed studies should have an applied dimension with the potential of a clearly beneficial impact on individual or community health care.

Proposals should be received by DiaTech no later than June 1, 1987. Forms for this purpose and guidelines for proposal preparation can be obtained from:

DiaTech
PATH
4 Nickerson Street
Seattle, Washington 98109-1699
(206) 285-3300
ATTN: Program Administrator

Proposals will be reviewed by the Technical Advisory Group, and announcement of awards will be made on or about September 1, 1987.

BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., a major developer, manufacturer, marketer and distributor of ethical and over-the-counter pharmaceuticals is expanding its Research and Development staff. As one of the most rapidly expanding firms in today's pharmaceutical industry we continue to search for new answers to U.S. and world health care problems. We are currently seeking candidates for the following positions.

SENIOR / PRINCIPAL SCIENTISTS
(3 POSITIONS)

Our Pharmacology Department is seeking a Virologist, Immunologist and Cardiovascular Pharmacologist. As a Senior/Principal Scientist, primary responsibilities will be the initiation of research ideas, design and execution of research activities and proposal of approaches to research goals. All positions require a Ph.D. in Molecular or Cellular Biology, Immunology or other discipline plus appropriate post doctoral education and experience in the area of specialty.

SUPERVISOR, PHARMACEUTICAL TECHNOLOGY

Key responsibilities will be to coordinate product and process technology transfer from R&D to Production, and provide scientific support to the manufacturing unit. A Ph.D. in Pharmacy, Biomedical Engineering or Chemical Engineering with 2 or more years experience in Pharmaceutical processing and a background in process modeling optimization required.

RECEPTOR BIOLOGIST

Develop receptor binding assays for application to drug discovery in our anti-inflammatory/Immunology program, develop a research program in membrane isolation and characterization, perform advanced database handling and modeling techniques for receptor ligand interaction. A Ph.D. and post doctoral training and experience in Biochemistry, Pharmacology or Immunology required.

RESEARCH COORDINATOR - SCIENTIFIC & TECHNICAL OPERATIONS

Key responsibility will be to provide coordination and support of research activities in our multi-disciplinary R & D facility. As an in-house "consultant," the incumbent will assist in the achievement of individual department and overall research and development goals. A Ph.D. or equivalent experience in Pharmacology or Biochemistry plus 5-10 years experience in research required.

Our state-of-the-art environment is combined with a highly competitive compensation/benefits package including relocation assistance. Please send your resume and salary history to Dept. JC, R & D, BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., 90 East Ridge, PO. Box 368, Ridgefield, CT 06877. An equal opportunity employer m/f/h.
POSITIONS OPEN

ANTICIPATED FACULTY POSITION IN GENETIC BIOLOGY
UNIVERSITY OF CALIFORNIA AT SANTA BARBARA

The Department of Biological Sciences at the University of California, Santa Barbara, invites applications for a full-time, tenured-track faculty position in neurobiology. The successful candidate will be expected to conduct a vigorous independent research program, contribute to teaching in a developing course sequence in neurobiology, and participate in a new interdisciplinary research program in cellular and molecular neurobiology. The assistant professor level is preferred although, in the case of an outstanding researcher, the tenure-track faculty appointment will be considered. The position is effective 1 July 1987. Applicants should submit their curriculum vitae, selected reprints, a brief description of present and anticipated research, and arrange to have at least three letters of reference sent by 31 March 1987 to: The Chairman, Department of Biological Sciences, University of California, Santa Barbara, CA 93106. The University of California is an Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or visa status will be required prior to employment (Immigration Reform and Control Act of 1986).

GENETIC INFORMATION SPECIALIST

The Jackson Laboratory, a nonprofit research institution on the coast of Maine, is seeking a Genetic Information Specialist with a master's degree or equivalent experience in genetics. The work consists of evaluating various kinds of genetic data from scientific literature and entering the data into the computer. There will be considerable communication with scientists outside and inside The Jackson Laboratory and minor laboratory assignments as required; no special laboratory skills are required. Typing skills, library and computer terminal experience important. Please send curriculum vitae, transcripts and letters of reference to: Harold Wheeler, Employment Manager, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609. Telephone 207-288-3371. Affirmative Action/Equal Opportunity Employer.

HUMAN MOLECULAR GENETICIST

The Department of Human Genetics of Virginia Commonwealth University/Medical College of Virginia is seeking applications for an assistant professor, tenure-track position that must have a doctorate in human genetics with at least 2 years of postdoctoral experience and a strong background in human genetics. The successful candidate will be expected to develop an independent research program and to participate in graduate studies. To apply, send curriculum vitae, bibliography, and three letters of reference to: Dr. Walter E.N. Walker, 33 MCV Station, Richmond, VA 23298–0001. Deadline for applications is 27 March 1987. Equal Opportunity/Affirmative Action Employer. Women and Minorities are encouraged to apply.

MOLECULAR GENETICS–NEUROBIOLOGIST

Tenure-track position in the Andrus Gerontology Center and the Department of Biological Sciences. To establish a new laboratory research program in the general area of molecular genetics–neurobiology, with strong interests in age-dependent neurological disease. This laboratory will be affiliated with the new university-wide Neural, Informational and Behavioral Sciences (NIBS) program. Position is being recruited at the assistant professor level. However, more senior appointments will be considered. Please send curriculum vitae, bibliography, names of four references and a brief description of career goals and research objectives by 1 May 1987 to: Dr. Caleb Finch, Chairman, Search Committee Molecular Genetics–Neurobiologist Department of Biological Sciences University of Southern California University Park Los Angeles, CA 90089–0371 The University of Southern California is an Equal Opportunity/Affirmative Action Employer.

IMMUNOCHEMIST/IMMUNOLOGIST

Nonprofit research organization is seeking a Ph.D. with a strong direct applied research aimed at developing products for commercial applications. Consultation available from team of nationally recognized investigators. Applicants should recognize that this position involves product-oriented research. At least 2 years of postdoctoral experience, record of research achievement, and ability to manage projects independently are required. Background in genetics desirable. Competitive salary. Mid-west location. Send curriculum vitae and particulars to: Box 15, SCIENCE.

IMMUNOCHEMIST/IMMUNOLOGIST

For studies of cytokines F–450, Laboratory of Molecular Carcinogenesis, National Cancer Institute, National Institutes of Health, Public Health Service. Position of Senior Staff Fellow to use immunological and immunochromatographic approaches, particularly monoclonal antibodies to study cytokine F–450 immunogenicity, their multiplicity, structure and function, their role in the metabolism, activation, and detoxification of xenobiotic carcinogenic compounds. Salary range: $28,688 to $41,358. Send curriculum vitae and three letters of reference to: Dr. Henry V. Gelboin, Chief, Laboratory of Molecular Carcinogenesis, National Cancer Institute, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity Employer.

MARINE CHEMIST

Applications are solicited for a tenure-track ASSISTANT PROFESSORSHIP in organic or inorganic marine chemistry at the University of Maine, Orono, effective fall 1987. The position will be one of several academic appointments in the Environmental Studies Program in the departments depending on the candidate's research interests. Interaction with marine biologists, microbiologists, physicists, and geologists on campus and coastal laboratories will be encouraged. Send curriculum vitae, statement of research interests, and reprints of publications to: Director, Marine Sciences, Ecology Building, University of Georgia, Athens, GA 30602. All applications must be postmarked by 15 April 1987. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

MICROBIOLOGIST/MEDICINAL MICROBIOLOGIST: Assistant to Associate Professor, tenure-track position starting 1 July 1987. Applicant should have a Ph.D. and postdoctoral experience in microbial genetics and molecular biology and be able to work independently in teaching a medical curriculum course in microbiology. The individual will be expected to present an advanced course in microbiology in graduate curriculum and to develop an independent research program in the field. Salary will be commensurate with experience. Submit curriculum vitae, summary of research interests, and names of three references by 15 May 1987 to: Dr. Albert G. Moat, Professor and Chairman, Department of Microbiology, Marshall University School of Medicine, 1542 Hadlock, Huntington, WV 25704–2901. Marshall University, a state university of West Virginia, is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR AND CELL BIOLOGY/BIOPHYSICS

Postdoctoral Opportunities

Broad range of membrane research projects: (i) nature of lipid-protein interaction in membranes; membrane dynamics; (ii) membrane reconstruction; (iii) enzyme and protein chemistry; (iv) cloning and site-specific mutagenesis of membrane proteins and (v) muscle physiology–Ca$^{2+}$ release mechanism in excitation-contraction coupling.

Send curriculum vitae, bibliography, three letters of recommendation, and short statement regarding career goals, interest, and experience to: Professor S. Fleischer, Department of Molecular Biology, Vanderbilt University, Nashville, Tennessee 37235. An Equal Opportunity/Affirmative Action Employer.

MEDICINAL CHEMIST

The Division of Pharmacology and Medicinal Chemistry invites applications for a tenure-track faculty position in the area of medicinal chemistry and biochemistry. The successful candidate should possess excellent research capabilities and have a record of productive collaboration with academic and industrial colleagues as well as demonstrated potential for excellence in teaching. The appointee will be expected to pursue an active research program and to participate in the training of graduate students. The position will begin 1 July 1987. Applications should include a curriculum vitae, statement of research interests, and the names, addresses, and telephone numbers of three references to: Dr. Vernon B. Grund, Chairman, Division of Pharmacology and Medicinal Chemistry, College of Pharmacy, University of Cincinnati Medical Center, Cincinnati, Ohio 45267. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority groups.

MICROBIOLOGIST, ASSOCIATE PROFESSOR, tenure-track position, to teach introductory courses in microbiology and upper-level courses in virology, microbial genetics and tissue culture. Qualifications: earned Ph.D. with a solid background in the teaching experience is desirable; education and/or experience in virology and tissue culture essential. Submit letter of application and four references to: Dr. Marion L. Voss,A. T. O. C. Chairperson, Department of Biology, Southern Connecticut State University, 501 Crescent Street, New Haven, CT 06515. Affirmative Action/Equal Opportunity Employer.

MOLECULAR GENETICIST: Applications are invited for a tenure-track position in molecular genetics. Candidates must have at least 2 years of postdoctoral training in the broad field of molecular genetics. Primary responsibilities of the candidate will be the development of a teaching program for medical and graduate students, and the establishment of an independent research program in the general area of molecular genetics. Applicants should submit curriculum vitae with names of three references to: Dr. H. Dean, Department of Medicine, Tufts University, Boston, MA 02111.

MYCOBACTERIOLOGIST

The Wadsworth Center for Laboratories and Research is seeking an experienced, clinically oriented Ph.D. or M.D. to head a mycobacteriology reference diagnostic and research laboratory. Responsibilities will include: (i) direction of the laboratory of mycobacteriology, with particular expertise in cultural identification and antibiotic susceptibility testing, (ii) conduct of basic and applied research of public health relevance, (iii) administration of proficiency testing program in mycobacteriology, (iv) consultation and educational activities, (v) support to epidemic investigations, and (vi) disease control efforts at the State and National levels. Send curriculum vitae, statement of research goals, and names of three references to: Felix H. Herlihy, M.D., Wadsworth Center for Laboratories and Research, Empire State Plaza, Albany, NY 12201. An Affirmative Action/Equal Opportunity Employer.

NATURAL SCIENTIST/COMPUTER RESOURCE PERSON: Permanent, full-time position starting August 1987 teaching introductory computer courses on existing microcomputers (Apples, Commodore, IBM), and courses on existing ecology, forestry, and wildlife programs; and acting as a computer resource person. Send curriculum vitae, names of three references, and numbers of years of experience to: Charles D. Nettles, Research Assistant Professor, University of California, Berkeley. An Equal Opportunity Employer.

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SCIENCE, VOL. 235
National Institute on Aging, National Institutes of Health
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study molecular biological aspects of aging brain and human neuropathological disorders. The successful candidate will be expected to carry out research that will complement some of the following areas of investigation: (1) characterization of the molecular changes in the aging rat brain and in the postmortem human brain in relation to Alzheimer's disease; (2) examination of proto-oncogene and growth factor expression in the CNS and in specific neuronal populations; (3) examination of altered gene expression in a trisomic mouse model of Down's syndrome.

Applications are invited from individuals having a Ph.D., M.D., or combined degrees plus experience in either of the following: molecular approaches to gene expression, in situ hybridization or neuroanatomy. Salary range is $17,000 to $47,728 per annum commensurate with qualifications. Interested candidates should submit their Curriculum Vitae to Stanley L. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 16, Room 6C 163, N960 Rockville Pike, National Institutes of Health, Bethesda, Maryland 20892.

An Equal Opportunity Employer

Australia
CSIRO
Physiological Plant Pathologist
A$28,107–A$41,339
Laboratory for Rural Research
Perth WA

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7400 staff, of whom some 2800 are professional scientists. As Australia's main strategic research organization, CSIRO's stated role is research in support of major sectors of the Australian economy, and the effective transfer of its results to users.

General: Dryland Crops and Soils is a multidisciplinary research program established in 1984 by the Divisions of Plant Industry and Soils. Based in the Laboratory for Rural Research in Perth, Western Australia, the program aims to provide understanding of and management options for improved crop production in coarse textured and texture-contrast soils in Mediterranean climate zones of Australia. In areas of the wheat-growing regions of WA, root diseases severely limit crop production. Take-all (Gaeumannomyces graminis) is one of the major root diseases limiting the production of cereals, particularly wheat.

DUTIES: In collaboration with the crop physiologists, root biologists and soil scientists in the program, the appointee will be expected to initiate research in the field and glasshouse aimed at understanding the influence of soil management and environmental factors (mineral nutrition and water status), on the physiological basis of susceptibility of wheat to take-all (Gaeumannomyces graminis).

QUALIFICATIONS: A PhD degree or equivalent qualifications in plant pathology. Experience with root pathology and root biology would be preferred. A good background in plant physiology/biochemistry is essential.

TENURE: A term of 3 years with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No A4632, should be directed to:

The Chairman
CSIRO Laboratory for Rural Research
Private Bag
PO Wembley 6014, Western Australia.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER.

Position Available
Director, National Institute of Mental Health, Alcohol, Drug Abuse, and Mental Health Administration
Public Health Service
Department of Health and Human Services

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, National Institute of Mental Health (NIMH).

This is a Senior Executive Service position in the career Civil Service, with an annual salary range of $63,200 to $72,500. Physicians may also be eligible for a Physicians' Comparability Allowance of up to $10,000 per year. The position is located in Rockville, Maryland.

The National Institute of Mental Health provides leadership for the Federal effort in the promotion of mental health. Its programs include intramural and extramural research, the administration of training programs to meet national mental health manpower needs, and the provision of technical services to States and communities. The Director manages a staff of 1,000 and a budget of $342 million.

Minimum qualifications requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's or higher degree in an academic field relating to the health sciences, and progressively responsible experience in developing, administering, and evaluating mental health programs. Candidates must also have experience in the management of mental health programs, demonstrating competence to assume leadership in planning, staffing, directing, coordinating and allocating resources, and other responsibilities associated with executive leadership of a major national program.

Further information about the position and qualification requirements may be obtained by contacting Ms. Lois Mercer at 301/443-5030. Applications (Application for Federal Employment, SF 171) accompanied by a current curriculum vitae and bibliography should be submitted to Ms. Mercer at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Applications will be accepted without the SF 171, provided that the SF 171 is submitted upon request. Nominations and applications should be submitted by March 9, 1987.

Applications from women and minority group members are especially solicited.

The Alcohol, Drug Abuse, and Mental Health Administration
Is an equal opportunity employer.
Goddard Space Flight Center SEeks a DIRECTOR OF SPACE AND EARTH SCIENCES

Scientific leader of NASA's largest Space Science organization

750 scientists and engineers
- 6 Laboratories
  Laboratory for Atmospheres
  Laboratory for Terrestrial Physics
  Laboratory for High Energy Astrophysics
  Laboratory for Oceans
  Laboratory for Astronomy and Solar Physics
  Laboratory for Extraterrestrial Physics

Goddard Institute for Space Studies (New York)

2 Divisions
- Space Data and Computing Division
- Administration and Resources Management Division

2 Project Management Offices
- Coastal Dynamics Project
- Orbiting Satellites Project

Reporting to the Director, Goddard Space Flight Center, the position is in the Senior Executive Service: salary range is $61,296-$72,300, depending upon qualifications.

Candidates must have a Ph.D. or equivalent education or experience, and a research background in space and/or earth sciences including a substantial record of publications and/or significant responsibility for guidance of the scientific content of major programs in the space and/or earth sciences. Candidates must have demonstrated the ability to provide interdisciplinary program leadership, and to direct and participate in programs and projects in a broad spectrum of theoretical and experimental research in the space and/or earth sciences. Familiarity with the content, objectives and purposes of NASA's scientific program is highly desirable.

A Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below), should be sent to NASA/Goddard Space Flight Center, Attention: Ms. Arletta Love, Code 221, Greenbelt, Md. 20771. Applications will be accepted through March 31, 1987.

For further information and application forms, please call 301-286-6319 (Ms. Arletta Love).

U.S. CITIZENSHIP REQUIRED
AN EQUAL OPPORTUNITY EMPLOYER

POSTDOCTORAL RESEARCH SCIENTISTS

The Monsanto Biological Sciences Department is currently looking for two postdoctoral scientists to work in its research facility in St. Louis, Missouri.

Protein Chemistry Group

In this position you will study the purification and characterization of proteins produced in E. coli by rDNA methods, particularly the precursors of atrial peptides and related proteins. You will be part of an ongoing collaboration with the Pharmacology Department, Washington University Medical School, St. Louis. The collaborative project involves the pharmacology and physiology of the proteins as well as their in vivo and in vitro processing. Previous experience in protein purification and protein chemistry is desired.

Protein Engineering Group

You will work on a topical problem related to the understanding of protein structure-function relationships. The design, production and characterization of novel proteins will be emphasized. Previous experience in gene cloning and expression is desired.

For consideration, send a resume and 3 letters of reference to: John Busean; MONSANTO COMPANY; BBSB-GS; 700 Chesterfield Village Parkway; Chesterfield, MO 63198. An Equal Opportunity Employer M/F/V.

Monsanto

OHIO STATE BIOTECHNOLOGY CENTER

The Ohio State Biotechnology Center seeks six exceptionally innovative scientists to join its faculty at any academic rank. This Center will be composed of 30 new research groups, occupying a newly remodeled, 90,000 square foot building, and will coordinate biotechnology research programs conducted by research groups throughout this comprehensive university. The Center faculty will hold joint appointments with a basic or applied science department within one of the colleges.

The Center expects to develop three major research areas based on the current strengths within the university. The first area to be developed is designated "Plants, Microbes and their Interactions." The university already has strong research programs in fungal molecular biology and plant-microbe interactions, and a group of talented young plant molecular biologists have recently joined the university. The six additional scientists will strengthen the research in this area and hold joint appointments in one of the academic departments in the College of Biological Sciences such as Microbiology or Molecular Genetics or in the College of Agriculture in departments such as Agronomy or Plant Pathology. Individuals with strong research programs in the molecular biology of either plants or microbes, are encouraged to apply.

As development of the Biotechnology Center proceeds, we will build on other areas to create an exciting environment for biotechnological research in this university, which has all of the basic and professional schools in one campus. Access to established graduate programs, modern research facilities, attractive start-up funds, as well as competitive salaries and benefits will be provided.

Columbus, the State Capital, is a growing metropolitan area of more than a million people situated within 500 miles of most of the major midwestern and eastern metropolitan areas of the U.S. and Canada.

Send nominations and applications including C. V., references and a brief statement of research plans to P. E. Kolattukudy, Director, Ohio State Biotechnology Center, Rightmire Hall, The Ohio State University, Columbus, Ohio 43210 by March 15, 1987.

Equal Opportunity Affirmative Employer

The Ohio State University
NATIONAL INSTITUTE ON AGING
NATIONAL INSTITUTES OF HEALTH
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study electrical properties of neuronal cell membranes during development in tissue culture. Research will involve: (1) growing mammalian neurons in culture; (2) examining action potential and membrane properties with intracellular microelectrodes; (3) performing voltage and current clamping to identify and characterize individual membrane currents; (4) using patch clamp recording techniques to characterize kinetics of individual ionic channels and analyze channel number. Experiments will be done in relation to morphological and neurochemical analyses. The position is that of a Staff Fellow, Senior Staff Fellow or Medical Staff Fellow, with a salary of $17,000 to $47,786 per annum commensurate with qualifications. Appointments vary in duration from 1 to 7 years. The position is located in Bethesda, Maryland, and is available immediately.

Applications are invited from qualified individuals having a Ph.D., M.D., or both, and pertinent research experience. Interested candidates should submit their Curriculum Vitae to: Stanley I. Rapeport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6C 103, 9000 Rockville Pike, National Institutes of Health, Bethesda, Maryland 20892.

An Equal Opportunity Employer

Molecular Biologists
ImClone Systems, an innovative, rapidly expanding biotechnology company located in New York City, seeks talented individuals to work in DNA probe technology, immunodiagnostics and vaccines. Qualified candidates will have a Ph.D. in molecular biology, immunology, cell biology or chemistry and at least 2 years post doctoral experience. A strong orientation towards biotechnology is desired.

We offer a dynamic working environment with competitive salary and benefits.

Send CV to: John Landes, ImClone Systems, 180 Varick St., New York, New York 10014.

ImClone Systems Incorporated

PROTEIN CHEMISTS /
JAPAN

Count on making a contribution to fast expanding programs in basic research

Hoechst, one of the world's largest pharmaceutical companies, is presently seeking highly motivated and creative Scientists to work in the Department of Basic Research at our Japanese Research Institute. Rapid expansion of basic research is envisaged. The research areas include immunology, molecular biology, synthetic biology and microbial chemistry. The laboratories are modern, well-equipped and located in a pleasant suburb of Tokyo. An independent and open research environment prevails. Publication and interaction with other scientists throughout the world are actively encouraged.

Candidates for this position must:
- be able to communicate in Japanese with ease
- be capable of carrying out independent bench research
- possess a PhD or MD
- have state-of-the-art knowledge and experience in the field of purification and characterization of recombinant proteins

Candidates are invited to send their CV including details of publications to: Dr. Elmar Konz, Head of R&D Laboratories, Hoechst Japan Limited, 1-3-2 Minami-dai, Kawagoe-shi, Saitama 350, Japan (0492-43-6110).

ENZYMOLGY RESEARCH

BURROUGHS WELLCOME CO., a producer of high quality pharmaceuticals and having a top reputation for innovative research, has two immediate openings available for Research Scientists in the Experimental Therapy Department to study the mechanisms of action of antiviral compounds.

The candidates should have a sense of curiosity and professionalism to share the planning and execution of studies in a research program that includes investigations into the enzymatic basis for biological activities of potential drugs, the mechanisms of enzyme activities and the identification of biologically active compounds. Recent studies in this laboratory have been involved with enzymatic aspects of the mechanisms of the antiviral compounds, acyclovir and azidothymidine. Experience in nucleic acid metabolism or molecular genetics is desirable for either position, (mentor: J.A. Fye).

The position of Research Enzymologist requires a Ph.D. degree or equivalent in biochemistry, pharmacology or molecular biology and demonstrated achievement in enzymology. The Associate Research Enzymologist position requires an M.S. degree in biochemistry, chemistry or biology (with a good understanding of chemistry through organic chemistry), or equivalent, and a demonstrated interest in enzymology.

BURROUGHS WELLCOME CO. offers a comprehensive company-paid benefit package and a challenging and pleasant environment in which to exercise your professional capabilities. To apply, forward your curriculum vitae, indicating position of interest to: Employment Supervisor, BURROUGHS WELLCOME CO., 3030 Cornwallis Road, Research Triangle Park, NC 27709.

An Equal Opportunity / Affirmative Action Employer
POTENTIAL

PETROLOGIST

Tenure-track teaching position beginning August 1987 at ASSISTANT PROFESSOR rank. Completed Ph.D. required in mineralogy, petrology, and one or more of the following: geologic mapping and air photo interpretation, structural geology, economic geology, geophysics. Commitment to teaching geoscience—report writing desirable but not necessary. Develop undergraduate and graduate research program in specialty; available equipment includes MAC-5 electron microscope. Indiana University-Purdue University at Indianapolis (IUPUI) is an urban university that brings together more than 100 degree programs offered by 16 schools and divisions, with more than 25,800 students. About 50 geology majors are in the B.A. or B.S. programs; a new M.S. program has about 6 candidates. Send resume by 1987 to: Dr. Robert Mirsky, Chairman, Department of Geology, Indiana University-Purdue University at Indianapolis, 425 Agnes Street, Indianapolis, IN 46202. Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGIST—ENZYMOLYST

For studies in cytochrome P-450, Laboratory of Molecular Carcinogenesis, National Cancer Institute, National Institutes of Health, Public Health Service. A senior staff fellow position is available for a scientist to study the enzymeology and pharmacology of cytochromes P-450 in a laboratory currently using both monoclonal antibodies and molecular biology to understand cytochrome P-450 multiplicity, structure, and function. Salary range: $20,688 to $41,358. Send curriculum vitae and three letters of reference to: Dr. Harry V. Gelboin, Chief, Laboratory of Molecular Carcinogenesis, National Cancer Institute, National Institutes of Health, 9000 Rockville Pike, 373E24, Bethesda, MD 20892. An Equal Opportunity Employer.

PLANT PHYSIOLOGIST

Department of Botany and Plant Sciences, University of California, Riverside, announces a position, available 1 July 1987. The position is to be filled at the ASSISTANT PROFESSOR level. Twelve-month, tenure-track appointment in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. Ph.D. required. The successful candidate will be expected to develop a vigorous, innovative, independent research program. Experience will determine the rank and level of the position. Research commitment to the study of the regulation of photosynthetic allocation at the molecular/biochemical level with emphasis on the study of oil and/or natural product deposition and accumulation in crop or potential crop plants. Must contribute to the departmental undergraduate teaching program and participate in teaching an upper division/graduate course in plant physiology.

Send curriculum vitae and arrange to have at least three letters of recommendation sent to: Dr. Erwin P. Ting, Chairman, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521. Application deadline is 1 April 1987, or later if suitable candidates have not been selected.

The University of California, Riverside is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.

POSTDOCTORAL POSITION IN MARINE AND ESTUARINE SCIENCES

The University of Maryland Center for Environmental and Estuarine Studies (UMCES), Horn Point Environmental Laboratory, located on Chesapeake Bay, is seeking to fill a postdoctoral position in any one of a broad spectrum of disciplines. These include coastal geology; invertebrate behavior, development, ecology, and physiology; nutrient cycling and productivity of phytoplankton, zooplankton, and vascular plant communities; physical oceanography; and seafood technology. The position is available from 1 October 1987 for 1 year with possible renewal for a maximum of 2 years. Send resume and three letters of reference by 30 April 1987 to: Dr. Michael Kemp, Chairman, Postdoctoral Search Committee, Horn Point Environmental Laboratories, P.O. Box 775, Cambridge, MD 21613. The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

ACCELERATOR PHYSICIST

The Engineering Division ofArgonne National Laboratory offers interesting challenges in applied accelerator research and development. As a member of the staff, you will have an opportunity to contribute to experimental research in high-current particle beam system development in support of national defense.

You will collaborate with a team of Ph.D.-level engineers and physicists within the Test Physics Group. Your knowledge of particle accelerators and the development of ion sources will be fully utilized in a broad scope of research activities that include: radiation yields from neutral particle bombardment, neutral beam direction sensing, neutralization of negatively-charged beams, particle and photon sensors, beam magnetic optics. Credentials must include a Ph.D. or equivalent in Physics or Engineering Physics; considerable skills in computer use for data reduction, analysis and physics modeling; exceptional communications skills; and directly related experience. Requires either a B.S. or equivalent in Physics.

We also invite qualified physicists to explore a role in other aspects of this exciting venture.

ACCELERATOR PHYSICIST

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We also invite qualified physicists to explore a role in other aspects of this exciting venture.

If you're responsive to an innovative environment where individual judgment and contributions are valued, send resume to Walter McFall, Box D-27740-55, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439.

An Equal Opportunity/Affirmative Action Employer.

U.S. citizenship required.
DIRECTOR
The Jackson Laboratory
Bar Harbor, Maine

The Jackson Laboratory, an internationally recognized mammalian genetics research institution, is seeking a Director, effective January 1, 1988. Interested persons should have an outstanding record in biological research and demonstrated competence in administration. Designated a Laboratory Cancer Research Center by NCI, the Jackson Laboratory has a research staff of 37,500 employees and a budget of over $20 million. Reply to...

Kenneth P. Trevett, Executive Secretary
Director's Search Committee
The Jackson Laboratory
600 Main Street
Bar Harbor, ME 04609-0800

An Equal Opportunity/Affirmative Action Employer
POSTDOCTORAL POSITION—A postdoctoral position is available immediately for an individual with an interest and strong background in photobiology, biochemistry, and GC-MS experience is desirable. State-of-the-art methodology will be employed to investigate mechanisms of leukotriene and PAF biosynthesis and pathways. Please send curriculum vitae to: Maureen Quigly, Professional Employment Representative, American Cyanamid Company, Ledderer Laboratories, Pearl River, NY 10965. An Equal Employment Opportunity Employer.

The Beckman Laser Institute and Medical Clinic, University of California, Irvine, is seeking to fill four postdoctoral (Ph.D. or M.D./Ph.D.) positions.

(i) Photochemist: To work in the area of photosensitization cells and tumors; expertise in both photochemistry and tumor biology desired.

(ii) Spectroscopist/Biophysicist: To work on cellular and subcellular laser-excited spectroscopy; knowledge of fast spectroscopy and Raman spectroscopy is desired.

(iii) Cell Biologist/Geneticist: To study gene inactivation/deletion in plant and animal cells by laser microsurgery as well as other problems of cell organelle function.

(iv) Biophysicist/Applied Physics—Optics: To study protein-DNA interactions as well as methods of laser delivery and dosimetry.

Please reply to: Michael W. Berns, Ph.D., Beckman Laser Institute and Medical Clinic, University of California, Health Sciences Campus, Irvine, CA 92718. The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available May 1987 to study the molecular bases of the selectivity of pterazine for mucaricin receptor subtypes. The proposed studies include radiolabeled binding receptor solubilization and tissue culture techniques, in addition to assays of cyclic nucleotide and phosphoinositiide levels. Please send curriculum vitae to:

Dr. Eam E. El-Fakihany
Department of Pharmacology and Toxicology
University of Maryland School of Pharmacy
Baltimore, MD 21201

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE IN REPRODUCTIVE MOLECULAR BIOLOGY. Position available immediately to study regulation of somatic and germ cell gene expression during spermatogenesis. The factors and DNA sequences involved in the cell-specific transcription of the histone genes will be investigated by using recombinant DNA techniques, cell culture, gene transfer, in situ cytohybridization, and immunocytochemistry. Send curriculum vitae with the names of three references to: Dr. Chi-Bo Chae, Department of Biochemistry, University of North Carolina, Chapel Hill, NC 27514. Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS available immediately for two recent Ph.D.'s with strong background in molecular biology, recombinant DNA studies, and/or biochemistry. Research will involve studies on regulation, activation, expression and structure of cellular and viral oncogenes and their products in mammalian cells. Related areas of research include in vivo/vitro investigations of the mechanisms by which specific histone genes are regulated in mammalian tumorigenesis and mammary tumor metastasis. Technical help is available. Successful candidates will be encouraged to develop independent programs. Position could lead to a tenure track faculty position within 12 months. Salary is negotiable. Please send curriculum vitae and names of three references to: Dr. Nural H. H. Khan, Department of Cell and Molecular Biology, Medical College of Georgia, Augusta, GA 30912-3331. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study structure-function relationships in isoymes of human alpha-lactalbumin. Experience in amino acid sequence analysis desirable but not essential. Ph.D. in biochemistry with interest in chemistry preferred. Send curriculum vitae and names of three references to: Dr. Regina Pietruszko, Center of Alcohol Studies, Rutgers University, Piscataway, NJ 08854. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
now available in biochemistry. We are an established group in the area of membrane structure and function, magnetic resonance, spectroscopy and biophysics, with interests in signal transduction, protein kinases, phospholipase C, and molecular basis of tumor promotion. We are looking for a collaborative, young individual with strong background in biochemistry. Cloning experience helpful. Send curriculum vitae and names of three references to: Dr. Esaias Griffith, Institute of Molecular Biology, University of Oregon, Eugene, OR 97403 by 15 March 1987. Telephone: 503-686-4634. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
A postdoctoral fellowship is available immediately to study the regulation of phosphorylation in tumor promotion. The research involves the purification and characterization of membrane-associated enzymes, reconstitution of enzymes into liposomes, preparation of antibodies to these enzymes, and cloning of the structural and regulatory genes. Salary range is $18,000 to $22,000 depending on experience. Please send a curriculum vitae, copies of relevant reprints, and arrange to have two letters of recommendation sent to: Dr. George M. Carman, Department of Food Science, Rutgers University, New Brunswick, NJ 08903. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
available immediately to study regulation of extracellular matrix degradation and mitogenesis in murine mammary tumors. DNA methylation and recombinant DNA methods to examine the expression of tumor cell surface proteins, monoclonal antibody preparation and its use for purification of heparan sulfate-binding proteins from tumor cells. Background in molecular biology, cell biology, or biochemistry is preferred. Send curriculum vitae and names of three references to: Dr. C. Bivas, Department of Anatomy and Cell Biology, Tufts Medical School; 135 Harrison Avenue, Boston, MA 02111.

POSTDOCTORAL POSITION
available immediately to investigate control of peripheral vascular function and sex differences in vascular physiology in humans. Ph.D. or M.D. with background in physiology, pharmacology, or biochemistry. Please send curriculum vitae, reprints, and names of three references to: Robert R. Leitman, Department of Physiology, Medical Science Center, Wayne State University, School of Medicine, Lafayette Clinic, 951 East Lafayette, Detroit, MI 48207.

POSTDOCTORAL POSITION
available immediately in carcinogenesis/genetic toxicology. Must have Ph.D. with experience in one of the following areas: biochemistry, analytical chemistry, drug metabolism, or chemical carcinogenesis. Send curriculum vitae and names of three references to: Dr. R. L. Randerath, Department of Pharmacology, Baylor College of Medicine, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MACROPHAGE BIOLOGY. To study molecular role of ligands and receptors interactions of murine complement proteins and IgG isotypes related to macrophage effector functions. Ph.D. or M.D. with experience in research and/or teaching in postdoctoral experience. Experience both in protein biochemistry and cellular immunology desirable. Private internally funded research foundation; possible permanent positions. Send curriculum vitae, reprints, and three to four references to: Dr. Richard W. Leu, Ph.D., Immunology Section, Biomedical Division, The Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402.

POSTDOCTORAL POSITION, FUNGAL MOLECULAR GENETICS available 1987, to clone and characterize developmental genes regulated by mating-type genes in the higher fungus, Schizosaccharomyces. Genes known for function during sexual development, will be isolated via DNA transformation and compared for sequence, product, and regulation of expression. Send letter, curriculum vitae and names of evaluators to: Dr. Carmen Bird, Department of Biology, University of Vermont, Burlington, VT 05405.

POSTDOCTORAL POSITIONS
ENZYMOL OGY AND PROTEIN CHEMISTRY
Positions available immediately for individuals with Ph.D.s in biochemistry, molecular biology, or related areas to study two control enzymes of glucose metabolism.

Phosphofructokinase (Skeletal Muscle)—Subunit interactions, recognition sites, architecture, reconstruction, structures and roles.

Phosphoaminoxyrase Carboxykinase (Liver)—Active site mapping (GTG) and divalent metal binding sites and identification of critical Cys and catalytic fragments.

Newly remodeled, fully equipped laboratories and competitive salaries. Please send curriculum vitae and names and telephone numbers of three references to: Dr. Gerald M. Carlson, Department of Biochemistry, University of Houston, Houston, TX 77030. The Health Science Center, 800 Madison Avenue, Memphis, TN 38163.

The University of Tennessee is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Position available to do research on the molecular basis of photoadaptation in eukaryotic algae, as part of a collaborative effort between the Department of Applied Science and the Biology Department at Brookhaven National Laboratory. Candidates must hold a recent doctorate in plant or algal biochemistry, or physiology. A background in any aspect of biochemistry or molecular biology is required. Send curriculum vitae and names of three references to: Dr. P. G. Falkowski, Department of Applied Science, Building 318, Brookhaven National Laboratory, Associated Universities, Incorporated, Upton, Long Island, NY 11793. Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION available to study molecular genetics of human papillomaviruses. Applicants should have experience in molecular biology, cell biology, or monoclonal antibody production to participate in research on structure and function of the viral genome to determine mechanism of cell transformation. Send curriculum vitae, summary of research experience and names of three references to: Dr. Phoebe Mounts, Department of Immunology and Infectious Diseases, Johns Hopkins University School of Public Health, 615 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL/RESEARCH ASSOCIATE Position available immediately to study gene expression in Alzheimer's disease. Candidates must have a background in molecular genetics and skill in recombinant DNA techniques. Please send curriculum vitae and two references to:

D. R. McLaughlin
Department of Biology
Medical Sciences Building
Room 3318
University of Toronto
Toronto, Ontario
Canada M5S IAB

POSTDOCTORATE 2-D NMR—To solve the solution structure of small (MW 6,000-10,000) proteins involved in blood coagulation. Facilities include Bruker 500, MSL 300, several 200, 300 MHz. Candidates should have experience in NMR of macromolecules. Available 1 March 1987. Please submit curriculum vitae, reprints, and three to four references to: Professor L. J. Berliner, Department of Chemistry, Ohio State University, 120 West 18 Avenue, Columbus, OH 43210; telephone: 614-292-0154.
MOLECULAR GENETICS RESEARCH

International Minerals & Chemical Corporation, a diversified Fortune 200 company, is among the world's leading producers of nutrients for crops and products for animal agriculture. Through Mallinckrodt, a wholly-owned subsidiary, the company is a major supplier of specialty chemicals, medical products, and flavors & fragrances.

We are presently seeking a research molecular geneticist who has demonstrated a capacity for extensive problem-solving through individual creativity and original thinking. This position will be located in our corporate research laboratories in Northbrook, Illinois, a northwest suburb of Chicago.

The individual we seek will be responsible for planning, conducting, and evaluating basic and applied research and product development projects of a complex nature. The successful candidate will have a Ph.D. in molecular biology, molecular genetics, or a related field and a minimum of 2 years of post-doctoral research experience.

Candidates for this position must have training and experience in cloning and expression of heterologous genes in eukaryotic systems, vector design and construction, site-directed mutagenesis, and DNA sequencing. Strong oral and written communications skills are essential.

If you have demonstrated professional expertise in the area of molecular genetics and would like to become a part of an expanding research effort with a growth-oriented company, IMC can offer you a competitive salary, excellent benefits and a dynamic research work environment. We invite you to reply in confidence to: International Minerals & Chemical Corporation, Attn: Mr. James E. Moore, P.O. Box 207, Terre Haute, IN 47808-0207. All applicants must be prepared to document authorization to work in the U.S.
POSTDOCTORAL RESEARCH ASSOCIATE, PHYSICAL CHEMISTRY OR CHEMICAL PHYSICS. Two positions available immediately for recent Ph.D.'s in physical chemistry or chemical physics to work in areas of gas-phase molecular dynamics, spectroscopy, and photoionization. Some areas of current research include: (i) high-resolution infrared spectroscopy of chemical intermediates produced by pulsed discharge or UV laser photolysis; (ii) photodissociation dynamics of resonantly excited molecules by photoelectron and ion mass spectroscopies; (iii) state-resolved reaction dynamics using laser or synchrotron radiation probes. Extensive experimental facilities are available including excimer and Nd:YAG pumped dye laser systems, photoelectron, and ion spectrometers; and VUV beam lines located at the National Synchrotron Light Source (NSLS). Candidates should send resume and three letters of recommendation to: Dr. Alfred P. Wolf, Chairman, Chemistry Department, Brookhaven National Laboratory, Upton, Long Island, NY 11973. Equal Opportunity Employer M/F.

PROFESSOR AND CHAIR, Department of Food Science and Technology, University of California at Davis, available 1 July 1987, to furnish leadership in administration and in teaching, advising, research, and extension activities of the Department. Applicants must hold the Ph.D. or equivalent degree in an appropriate discipline and have a record of research accomplishment commensurate with a professorial appointment, and have demonstrated scholarly achievements. Experience in fiscal management desirable; skill in communicating with government, industry, and academic groups necessary. Applicants should submit curriculum vitae, a list of publications, and representative reprints of pertinent scientific publications, a resume detailing research and teaching accomplishments and administrative experience, and the names and addresses of at least four references to: Professor Tom Richardson, Search Committee Chairman, Department of Food Science and Technology, University of California, Davis, CA 95616. Applications should be received by 15 May 1987. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Recent Ph.D. to join ongoing research program utilizing flow chemistry and biochemical techniques to characterize mammalian sperm cells related to fertility and possible damage induced by environmental factors. [See Chemistry 6, 32 (1986); J. Am. Chem. Soc. 108, (1986).] Background in reproductive biology, flow cytometry, genetics, animal science, toxicology, and statistics helpful. USDA grant funds available for 2 years. Salary $20,000 to $22,000 plus benefits. Send curriculum vitae with names, addresses, and phone numbers of three references. Application deadline: 15 April 1987 or until position is filled. Dr. D. P. Iverson, Department of Chemistry, Box 2170, South Dakota State University (SDSU), Brookings, SD 57007. SDSU is an Equal Opportunity Employer.

POSTDOCTORAL SCIENTIST. An excellent research opportunity exists for a research scientist experienced in the use of mammalian expression vectors and preparation and screening of cDNA libraries. Duties will also include cloning hormone receptor genes for site-directed mutagenesis studies. You will have an excellent opportunity to carry out meaningful research and publish. Excellent salary and benefits programs accompany this position at our modern research laboratories located in suburban Philadelphia. Please send resume to: Research Personnel W42-2, Merck Sharp and Dohme Research Laboratories, West Point, PA 19486. Equal Opportunity Employer/Affirmative Action/VI/Employer.

POSTDOCTORAL SCIENTIST. An excellent research opportunity exists for a research scientist experienced in the use of mammalian expression vectors and preparation and screening of cDNA libraries. Duties will also include cloning hormone receptor genes for site-directed mutagenesis studies. You will have an excellent opportunity to carry out meaningful research and publish. Excellent salary and benefits programs accompany this position at our modern research laboratories located in suburban Philadelphia. Please send resume to: Research Personnel W42-2, Merck Sharp and Dohme Research Laboratories, West Point, PA 19486. Equal Opportunity Employer/Affirmative Action/VI/Employer.

RESEARCH ASSISTANT PROFESSOR, Ph.D. to join a leading team of clinicians and scientists at a major university. Applicants with an active interest in basic research on the genetic analysis of the seronegative spondyloarthropathies are encouraged to apply. Curriculum vitae should be sent to: William J. Koopman, M.D., Professor of Medicine, Director, Division of Clinical Immunology and Rheumatology, University of Alabama at Birmingham, Birmingham, AL 35294, before 1 March 1987. The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

RESEARCH OFFICER. The GIBCO/BRL Division of Life Technologies, Inc. is expanding its program to develop important new clinical diagnostic products based on nucleic acid detection.

We are seeking:

**SENIOR MOLECULAR BIOLOGIST — Ph.D.**

- Contribute your creativity to a leading-edge research program.
- Work within a team of experienced and innovative scientists.

**EXPERIENCED DIAGNOSTIC MARKETING PROFESSIONAL**

- Pursue an opportunity to introduce an exciting new technology.
- Assume full responsibility for planning and launching major new products.

**FDA SUBMISSIONS AND CLINICAL TRIALS ADMINISTRATOR**

- Develop the regulatory procedures required for FDA approval.
- Build on our strong record of regulatory excellence.

We are a successful biotechnology company with a strong reputation in the industry. The leadership enjoyed by our GIBCO and BRL products in molecular and cell biology is evidence of our commitment to excellence.

Our salary and benefits program is highly competitive. Our location combines the scenic countryside of Maryland with the cultural vitality of Washington, D.C.

Candidates should send resume, including salary history, to:

Mr. Richard L. Hotaling, Jr.  Personnel Manager  GIBCO/BRL Division, Life Technologies, Inc.  8717 Grovemont Circle, Gaithersburg, MD 20877

Join an Emerging Leader in DNA PROBE DIAGNOSTICS

The GIBCO/BRL Division of Life Technologies, Inc. is expanding its program to develop important new clinical diagnostic products based on nucleic acid detection.

**We are seeking:**

**SENIOR MOLECULAR BIOLOGIST — Ph.D.**

- Contribute your creativity to a leading-edge research program.
- Work within a team of experienced and innovative scientists.

**EXPERIENCED DIAGNOSTIC MARKETING PROFESSIONAL**

- Pursue an opportunity to introduce an exciting new technology.
- Assume full responsibility for planning and launching major new products.

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Mr. Richard L. Hotaling, Jr.  Personnel Manager  GIBCO/BRL Division, Life Technologies, Inc.  8717 Grovemont Circle, Gaithersburg, MD 20877

GIBCO/BRL
An equal opportunity employer. M/F/H/V
Scientists
Biogen Research Corp. is expanding its research laboratories in Cambridge, Massachusetts, and has positions open for Scientists trained in the areas of Molecular Biology, Protein Chemistry, Peptide Chemistry and Cell Biology/Immunology.

Interested applicants should have a Ph.D. and at least two years of post-doctoral experience.

Candidates for the Chemistry position should have specialization in synthesis, purification and analysis of biologically active peptides. The successful candidate will have a strong background in synthetic organic chemistry and a minimum of two years of experience in automated, as well as manual, synthesis of peptides, HPLC purification and analysis.

Applicants for the Cell Biology/Immunology position should have training in any of the following areas: immunochemistry, assay development and antibody production, regulation of immune and inflammatory responses, animal model systems for tumor growth or inflammation.

Candidates for the Protein Chemistry position should have experience in protein purification, protein structural chemistry, enzymology or the study of glycoprotein chemistry.

Molecular Biology candidates should have experience in any of the following areas: molecular biology-based studies of inflammation; isolation and analysis of differentially expressed genes from animal and cellular systems, expression of foreign proteins from yeast.

CV’s should include a list of publications and three professional references.


RESEARCH BIOLOGISTS

Wyeth Laboratories’ Radnor facility is a major pharmaceutical company’s center for R&D. As part of a major, on-going expansion, we require additional Research Molecular Biologists:

Molecular Virologist
A position is available in Wyeth’s expanding AIDS vaccine program. A Ph.D. in Microbiology, Biochemistry, or Molecular Biology is required with strong post-doctoral experience in molecular virology of animal DNA viruses or retroviruses. The successful candidate should be highly skilled in virology with special emphasis in molecular genetics and recombinant DNA technology.

Nucleic Acid-Sequencing Biochemist
A position is available for Ph.D. with a strong background in nucleic acid sequencing, oligonucleotide synthesis and gene assembly. Strong post-doctoral work and demonstrated ability are essential.

Research Immunologist
An Immunologist with expertise in immune responses to viral infections to play a key role in the development and testing of genetically engineered viral vaccines. Candidates should have a Ph.D. with strong post-doctoral experience, and skill in in vivo animal models.

You will enjoy working in our modern, well-equipped facilities in Philadelphia’s prestigious Main Line suburban area. Besides an environment which fosters discovery, we offer a competitive salary, excellent benefits, and superior career opportunities.

Respond immediately by forwarding your CV and salary requirements, in confidence, to: Recruitment Manager, Wyeth Laboratories, Inc., P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer. M/F/H/V responses encouraged.

PROJECT MANAGERS

Project Managers will be actively involved in planning and coordinating projects covering our recombinant products developed for pharmaceutical therapeutic use. Responsibilities will include the integration of science, business, production and general administrative concerns. The successful candidate will plan meetings, prepare activity plans and budgets, facilitate internal discussion of project issues and serve as the contact point for development partner relations. This position demands strong interpersonal and management skills plus the ability to problem solve and integrate various functions. The applicant’s background should include a Ph.D. in a related scientific discipline and several years of proven management experience in a high technology environment.

Creative BioMolecules offers competitive salaries and health benefits along with the opportunity to make a significant contribution to the success of the Company. Please send resume to: Personnel Department, Creative BioMolecules, 35 South Street, Hopkinton, MA 01748.
In just eight years Ortho Pharmaceutical Corporation has emerged at the forefront of biotechnology. For specific reasons, our new Biotech Division is a very unique place to work.

AN OUTSTANDING RECORD OF ACCOMPLISHMENT

Our record of success is attracting the attention of scientists around the world. We were the first to introduce monoclonal antibodies for research diagnostic use. And this year, we marketed Orthoclone OKT*3, the first therapeutic monoclonal antibody to be licensed in America and Europe. In addition, our current work with a synthetic pentapeptide fragment of the thymic hormone, thymopoietin, is leading to a novel therapeutic approach towards regulating the immune system in several important diseases.

A MOST REWARDING APPROACH TO RESEARCH

Under the leadership of Dr. Gideon Goldstein, our research effort has fostered an outstanding and very unique environment. It's one which combines a rich spirit of scientific inquiry with intense commitment. Some of the finest minds in biotechnology today are working at Ortho Biotech. And whether you join us with an academic or pharmaceutical industry background, you'll find our approach to be exciting and rewarding.

THE BACKING OF JOHNSON & JOHNSON

Our research thrives on entrepreneurial freedom, but our financial foundation is rock solid corporate. As a part of Ortho Pharmaceutical, Ortho Biotech is a Johnson & Johnson Company. As you would expect, we benefit a great deal from their significant and supportive resources.

WE'RE GROWING—AND WE WANT THE RIGHT PEOPLE TO GROW WITH US

Rapid expansion has created a number of important openings on our research staff.

RESEARCH MANAGER—MOLECULAR IMMUNOLOGY:
This position calls for a candidate with a Ph.D. or equivalent in Immunology or related field and 5-7 years’ experience demonstrating the ability to supervise a staff of 12 scientific personnel in 4 laboratories involved in immunoregulation research and monoclonal antibody generation. Your background must include extensive research in immunoregulation involving in vitro human systems and/or animal models.

RESEARCH SCIENTIST/ SR. RESEARCH SCIENTIST:
You should have a Ph.D. or equivalent in immunology,
cell biology or related field and 0-2 years' experience for Research Scientist positions. Senior Research positions call for a Ph.D. or equivalent and minimum 2 years' experience. Our current openings are in 4 areas and involve:

- Responsibility for the generation and maintenance of monoclonal seed lots, maintenance of antibody production, cell viability, and stability of hybridomas.
- Performance of experiments examining immunoregulation in human systems in vitro. Resources available include novel monoclonal defining lymphocyte subsets, selective immunoregulatory peptides and cell procurement from normal and defined disease groups.
- Development of dosage forms and delivery systems for peptides. Will prepare preclinical and clinical supplies and conduct probe formulation and stability studies.
- Conducting studies to access biological activity of synthetic analogs of immunoregulatory molecules. Will supervise 2 technicians and perform certain administrative activities. Experience desirable in cellular physiology, biochemistry, tissue culture and histochimical studies.

**RESEARCH ASSOCIATE/ASSOCIATE SCIENTIST:**

You'll need a BA or MS or equivalent in Biology, Biochemistry or Medical Technology, and minimum 2 years' experience for Associate level position. Ability to work with laboratory animals is essential. We now have a variety of openings for those qualified for one of the following:

- Assist in generation and maintenance of monoclonal antibody seed lots; perform in vitro functional usage for antibody characterization.
- Extract tissue for peptide assay, iodinate peptides. You must have experience in the use of radioisotopes, raising antibodies in lab animals, bioassay of endocrine peptides. Experience desirable in radioimmunoassay.
- Generate monoclonal antibodies to lymphocytes and other peripheral blood elements, screen and propagate relevant clones, establish functional assays to study cells.

**RESEARCH ASSISTANT/RESEARCH ASSOCIATE:**

You'll need a BS or MS or equivalent in Chemistry, Pharmacy, Biological Sciences or related field. Ability to handle, inject and bleed laboratory rodents is essential. Responsibilities involve:

- Assisting in the development of formulations for biological substances, preparing preclinical and clinical supplies and stability studies.
- Generation of monoclonal antibodies to lymphocytes and other peripheral blood elements, screening and propagation of relevant clones, establishing functional assays to study cells reactive with specific antibodies, and maintenance of cell lines in long-term culture.

If you meet the qualifications as listed, write directly to Dr. Gideon Goldstein, Ortho Pharmaceutical Corporation, Biotech Division, Dept. 39, Route 202, Raritan, NJ 08869-0602. Please include a resume and indicate your specific position of interest. We're an equal opportunity employer, m/f/h/v.
RESEARCH ASSISTANT PROFESSOR: The Harvard/Brighton/Children's Division of Plastic Surgery seeks interested applicants for positions in Ph.D. or M.D. in cell biology or related field. Will be responsible for initiating and carrying out research projects in the field of wound physiology and burns, and developing appropriate research methodologies. Requires working knowledge of statistics and computer programming. Important: Please submit curriculum vitae and references to: Dr. James V. D. Reed, Brighton and Women's Hospital, 75 Francis Street, Boston, MA 02115.

RESEARCH ASSOCIATE to develop procedures for and carry out the synthesis of substituted polynuclear aromatic hydrocarbons. Carry out the oxidation of such compounds under chemical and enzymatic conditions to determine the products of oxidation, and synthesize those products. Determine the rates of oxidation and other oxidation products in various solvents relevant to chemistry and spectroscopic kinetic methods. Develop mechanistic hypotheses and provide tests for verifying those hypotheses. Require Ph.D. in physical organic chemistry with 2 years of experience in free radical chemistry, organic synthesis, gas and liquid chromatography and reaction kinetics, with proven record of performance as indicated by publications. Salary: $20,000 per year. Apply in person to: Georgia Department of Labor, 2811 Lakewood Avenue, SW. Atlanta, GA 30324. Contact Georgia Job Service Center. Control 710395000.

RESEARCH ASSOCIATE: Conduct research studies on cardiovascular disease mechanisms in the pathogenesis of malignant hypertension. Ph.D. or M.D. plus at least 2 years of postdoctoral training in the study of biochemical and pharmacological mechanisms relevant to the control of blood pressure. Salary $21,996 per year. Mail resume to: Jack Hillestein, Tennessee Job Service, 1295 Poplar, Memphis, TN 38104. An Equal Opportunity Employer.

RESEARCH ASSOCIATE IN MOLECULAR NEUROSCIENCE, University of Texas Health Science Center Houston (UTSWCD), Department of Neurology, invites applications from M.S., Ph.D. or M.D. individuals with comprehensive experience in molecular genetics to pursue: (i) characterization of reactivated DNA sequences and their possible transcriptional products altered during mammalian brain development or oncogenesis of glioma and neuroblastoma and/or (ii) Northern blot analysis of hormonal induction of specific mRNAs in developing neural tissue. Interested applicants should send curriculum vitae and names of three references to: Dr. Richard L. Weiland, UTHSCD, 5323 Harry Hines Boulevard, Dallas, TX 75235-9036. UTHSCD is an Equal Opportunity Employer.

RESEARCH SCIENTIST—Federal Service. The Letterman Army Institute of Research, San Francisco, CA (with physiological, M.D.) level, to participate as a member of a multidisciplinary team investigating the care of the combat casualty. Interest and experience in surgical, shock or wound healing research desirable. Starting salary $31,619. Send resume and publications list to: C. Swift, SGDR-ULZ-RM, Letterman Army Institute of Research, Presidio of San Francisco, CA 94129. An Equal Opportunity Employer.

THE INSTITUTE OF BIOMEDICAL SCIENCES, ACADEMY OF MEDICINE, NEW YORK, is now accepting applications for SENIOR OR JUNIOR SCIENTIST positions in all areas of basic and clinical sciences, including biochemistry, biophysics, molecular genetics, cell biology, microbiology, immunology, pharmacology, pathology, and epidemiology. Emphasis will be on those related to cancer, infectious and cardiovascular diseases, as well as on non-communicable disease. The operation of the Institute starts in 1987 with new building and excellent facilities. There will be close collaboration with the newly established Center for Molecular Medicine and an opportunity to work with the Clinical Research Centers in major medical centers in Taipei. Send curriculum vitae and three letters of reference to: Dr. Chang-Wen Wu, Department of Pharmacological Sciences, State University of New York (SUNY) Stony Brook, Stony Brook, NY 11794. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Employer and Employer. AK #78-B.

RESEARCH ASSOCIATE: to work on the isolation (cosmid cloning) and characterization of naturally occurring mutations in human T cell collagen that produce osteogenesis imperfecta. A second project involves development of a system to generate mutations in vivo. The applicant must have a Ph.D. and the demonstrated ability to work independently using the techniques of molecular biology. Salary—approximately $23,000.

To apply, send resume to: Dr. Jeffrey Bonadio, The University of Michigan, 1150 West Medical Center Drive, MSRB I, Room 3500, Ann Arbor, MI 48109.

RESEARCH ASSOCIATE, Ph.D., to join an ongoing research project on the vestibular system and its motor control functions. Must have appropriate training in neurophysiological and behavioral techniques, and familiarity with contemporary signal processing and analysis. Send curriculum vitae and two letters of reference to: The Biosionics Corporation, Attention: Libby Varty, M/S 236-5, NASA Ames Research Center, Moffett Field, CA 94035. An Affirmative Action/Equal Opportunity Employer.

RESEARCH ENGINEER: Current projects include high-field magnetic resonance imaging, assessing lung structure, and respiratory mechanics. Primary responsibilities include design, construction and maintenance of experimental equipment and maintenance of the Department's computer systems. Qualified applicants should have an M.S. in biomedical or electrical engineering and experience with interfacing instruments with the computer and with digital and analog signal processing. Experience with clinical monitoring instrumentation and numerical methods desirable. Please apply and submit to: Mr. Robert Lewis, University of California Health Center, Personnel Department, Farmington, CT 06032. An Equal Opportunity Action/Equal Opportunity Employer.

STAFF DIRECTOR, MEDICAL SCIENTIS T The NATIONAL RESEARCH COUNCIL seeks a staff director for its Board on Mathematical Sciences. The incumbent will have responsibility for designing, securing funding for, and managing an important program of study on mathematics education. A Ph.D. or equivalent in a directly relevant field, 6 years' relevant experience with administration and/or study of educational or investigative work involving research in pure and applied mathematics and statistics, and demonstrated management and communications skills are required. Please send resume and the names of three references by 1 April 1987 to: Position #664.0011, National Research Council, 2101 Constitution Avenue, NW, Washington, DC 20418. An Equal Opportunity Employer.

STAFF FELLOWS, MEDICAL STAFF FELLOWS, VISITING STAFF SCIENTISTS, AND VISITING FELLOWS. Positions available at the Addiction Research Center (ARC) of the National Institute on Drug Abuse for recent, as well as experienced, doctoral graduates in psychology, neurosciences, pharmacology, and sociology, and for physicians trained in psychiatry or nuclear medicine. The twelve laboratories of the Center provide the opportunity to conduct research on the vulnerability to substance abuse, mechanisms of drug action, and the treatment of drug dependence. The ARC provides significant training opportunities in addition to those being conducted across the board in individual and collaborative study. Research fellows are generally appointed for an initial 2-year period which can be renewed for another 2 years. Applicants interested in exploring the opportunities presented by the ARC should write to: Dr. James V. D. Reed, M.D. Director, NIDA Addiction Research Center 4940 Eastern Avenue Baltimore, MD 21224

PSYCHOLOGIST, PSYCHIATRIST, OR PHARMACOLOGIST for positions in the DIVISION OF COGNITIVE STUDIES AND HUMAN PERFORMANCE. Applicant should have research experience and publications in area of effects of drugs of abuse on human performance and brain activity. Applicant should be familiar with recent developments in neurophysiological assessment of brain function and be capable of developing collaborations focusing on neuroscience, behavioral and psychopharmacological aspects of drug use and dependence and basis of vulnerability among high risk groups. Salary will range from $38,727 to $53,830, depending on experience and qualifications. Applicants should write to: Jerome H. Jaffe, M.D. Director, NIDA Addiction Research Center 4940 Eastern Avenue Baltimore, MD 21224

Include recent curriculum vitae and two references.

RESEARCH LAB TECHNOLOGISTS MASSACHUSETTS GENERAL HOSPITAL We have many open positions for technologists who have experience in molecular biology, immunology, T-cell culture, as well as transplantation research with experience in standard animal virology, tissue culture, molecular biology, and use of DNA manipulation to tumor transplantation to physiology and surgical studies to monoclonal and polyclonal antibody development. Requires a B.S. or Ph.D. in molecular biology or biochemistry with related work experience. Please send resume to: Harold Gregory, Employment Office, Massachusetts General Hospital, 15 Fruit Street, Boston, MA 02114 or telephone: 617-726-2205.

We are an Equal Opportunity/Affirmative Action Employer.

TECHNICAL MANAGER (DNA PROBE) International Company developing new diagnostics business seeks practical, problem-solving, hands-on technical manager to direct R&D and Laboratory operations. Ph.D. in molecular genetics, molecular biology plus 3 to 5 years of desirable experience in clinical or genetics testing and use of polymorphic markers. Knowledge of following areas important: gene probe technology, radiosotopes, labeling, electrophoresis, Southern blotting, DNA preparation, cloning, and sequencing. Accredited Laboratory Director and expert witness status beneficial. Must have demonstrable managerial experience combined with solid interpersonal and communications skills. Assignment requires work with international R&D organization and ability to contribute to worldwide effort. Desirable mid-Atlantic location.

Send resume or curriculum vitae to: Robert J. Hartman, P.O. Box 7996, Charlottesville, VA 22906.

VICE CHANCELLOR FOR RESEARCH AND DEAN OF THE GRADUATE SCHOOL UNIVERSITY OF ALASKA—FAIRBANKS (UAF) The Vice Chancellor, under the general guidance of the Chancellor, is responsible for providing overall leadership, coordination, and direction to UAF research and scholarly activities. UAF is the center for organized research within the University of Alaska system. Additionally, the Vice Chancellor has responsibilities for oversight of the quality of all research programs in concert with the Graduate Council. Qualifications include a Ph.D. or equivalent, record of scholarly achievement, demonstrated management ability, understanding and commitment to funding of basic and applied research, and success in obtaining sponsored research funding. Experience in the management of a research/academic unit is desirable. Send nominations and names of candidates to: Dean James V. Drew, Chairman Search Committee 303 Simpson Building University of Alaska—Fairbanks Fairbanks, AK 99775 Telephone: 907-474-7188 Applications should include a letter of application, résumé, and at least three references. Closing date: 31 March 1987. The University is an Equal Opportunity/Affirmative Action Employer and Educational Institution.
THE FOURTH ANNUAL CONGRESS FOR AUTOMATION, SCALE-UP and the ECONOMICS OF BIOLOGICAL PROCESS ENGINEERING

MARCH 4, 1987
MOSCONETRNCENTER, SAN FRANCISCO

A one day meeting in conjunction with:
THE SEVENTH ANNUAL DNA/HYBRIDOMA CONGRESS EXPOSITION
ORGANIZED BY SCHERAGO ASSOCIATES, INC.
in conjunction with GENETIC ENGINEERING NEWS

CHAIRMAN: Gerald L. Hawk, PhD, Zymark Corporation

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Anyone wishing to submit an abstract for presentation may contact Congress Chairman Gerald L. Hawk, PhD, Zymark Corporation, Zymark Center, Hopkinton, MA 01748 (617) 435-9501. (Deadline January 1st).

Registration Fee: $250.00
Attendance will be limited. Make checks payable to: Scherago Associates, Inc., Automation, Scale-Up.

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SYMPOSIUM

XIIIth International Symposium for Comparative Immunology, Enzyme and Related Diseases and Post-Symposium Satellite Workshops.

Symposium: 8 to 13 November 1987, Larchmont Hotel, Jerusalem, Israel.

Satellite Symposium: 14 to 17 November 1987, Elat (Red Sea), Israel.

Contact: Dr. David S. Tovin, Secretary General, Suite 502, 410 West Twelfth Avenue, Columbus, Ohio 43210, or Dr. Ze’ev Trainin, Kiniron Veterinary Institute, P.O. Box 12, Beit Dagan 50200, Israel.

WORKSHOP

STABLE ISOTOPES AS NATURAL TRACKERS OF ECOSYSTEM PROCESSES. A 5-day workshop for ecosystem ecologists, 17 to 22 May 1987. Lectures on stable isotope theory and applications to nutrient cycling, historical reconstruction, whole ecosystem experiments, and landscape ecology. Laboratories on sample preparation. $600 registration fee includes room and board.


FELLOWSHIPS

HARVARD UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY
POSTDOCTORAL FELLOWSHIPS

A limited number of postdoctoral research positions will be available in the upcoming months. Appointments are funded through research grants to faculty members, for one year, and are renewable. For a list of faculty members who have postdoctoral positions available, write—but please, no résumés or application forms at this time— to: Laura Frey, Department of Biochemistry and Molecular Biology, Bldg. 17D, Division of Medical Sciences, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN BIOLOGICAL AND MEDICAL SCIENCES. A training program has been funded to promote interdisciplinary research in mental retardation and development neurobiology. Fellows collaborate with researchers on human/neuroanatomy, neurochemistry, neuroendocrinology, psychopharmacology, neurology, genetics and behavioral psychology. Available 1 September 1987. Send résumés to: Dr. J. F. Kessler, 241 Biology Research Center, 2405 Fifth Street, University of California, Santa Cruz, CA 95064.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN HEMOSTASIS AND CARDIOVASCULAR DISEASE

One- to three-year positions available immediately in multidisciplinary, NIH-supported research training program in physiology and biochemistry of platelet function, blood coagulation and basic and clinical hemorhology. Recent Ph.D. or M.D. required. Send résumé to: Dr. J. F. Kessler, Division of Hematology, St. Louis University Medical Center, 1325 South Grand Boulevard, St. Louis, MO 63104, telephone: 314-452-5884. An Equal Opportunity/Affirmative Action Employer. M/I/HV.

POSTDOCTORAL RESEARCH FELLOWSHIP to study gene transfer and expression available for a 2-year period beginning 1 April 1987. Applicants should have a Ph.D. and research experience in biochemistry or molecular biology. The position will involve the analysis of expression of recombinant genes. Send curriculum vitae and two letters of recommendation to: Dr. A. Keating, Oncology Research, Toronto General Hospital, 200 Elizabeth Street, Toronto, Ontario, Canada M5G 3A4.

POSTDOCTORAL FELLOWSHIP JUNE 1988—PHYSIOLOGY. Applicants are invited for a 2-year postdoctoral fellowship to work with the SCOPE project on global phosphorus cycling at the National Resource Ecology Laboratory, Colorado State University, Fort Collins. The Fellow will work on two projects: (i) development of a model to simulate phosphorus cycling and C, N, P interactions across a range of ecosystems and (ii) assemble and analyze data on phosphorus fluxes among terrestrial and between terrestrial and aquatic ecosystems.

Applications should have experience with elements cycling (preferably P) in terrestrial or aquatic ecosystems and strong quantitative skills. Experience with simulation or modeling desirable. Interdisciplinary training will be expected. U.S. citizenship required. Please submit résumé and three letters of reference by March 1987 to:

U.S. National Committee for SCOPE
National Research Council
2101 Constitution Avenue, NW/JH 804
Washington, DC 20418
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RESEARCH METHODOLOGY IN AGING

POSTDOCTORAL FELLOWSHIPS are available for Ph.D.s interested in teaching and adapting novel mathematical/statistical approaches to modeling behavioral, social, and/or biological aspects of adult development aging processes. Interested scientists who are applying for a grant to conduct research on Aging awards can begin February 1987. Send curriculum vitae, summary of research interests, and names of three references to: John R. Nesselroad, College of Human Development, The Pennsylvania State University, University Park, PA 16802. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH FELLOWSHIP AND TRAINING PROGRAM IN PSYCHO-NEUROIMMUNOLOGY AT UNIVERSITY OF CALIFORNIA AT LOS ANGELES (UCLA). Available for one or two years beginning July 1987 following completion of Ph.D. degree, or an M.D. and residency program. Practical and didactic research training provided in immunology, behavioral sciences and neuroscience, and in basic or clinical disciplines. Research focus includes neuroendocrine regulation of the immune system or cellular/molecular interaction of one or more senior investigators. Fellows will be expected to acquire knowledge of all aspects of this interdisciplinary field, in which they lack the background. Salary range competitive, depending on level of experience. Address letters of inquiry, outline of a proposal, curriculum vitae, and three letters of recommendation to: Herbert Weinger, M.D., Program Director, Room C8-861 Neuropsychiatrist Institute, UCLA, 760 Westwood Plaza, Los Angeles, CA 90024. UCLA is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP GLOBAL PHOSPHORUS CYCLING

Applications are invited for a 2-year postdoctoral fellowship to work with the SCOPE project on global phosphorus cycling at the National Resource Ecology Laboratory, Colorado State University, Fort Collins. The Fellow will work on two projects: (i) development of a model to simulate phosphorus cycling and C, N, P interactions across a range of ecosystems and (ii) assemble and analyze data on phosphorus fluxes among terrestrial and between terrestrial and aquatic ecosystems.

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SCIENCE, VOL. 235
The Department of Microbiology and the Bioprocess Technology Institute of the University of Minnesota announce four new positions to be devoted to the continued expansion and development of programs which are cooperative and reflect the special strengths of the Institute and the Department of Microbiology.

The Department of Microbiology offers three tenure track positions at the rank of assistant or associate professor for the 1986-87 academic year. We seek individuals whose interests and expertise coincide with or complement our areas of emphasis—

**MICROBIAL PATHOGENESIS**
Viruses: A. Haase, P. Plagemann, Colin Jordan, Dwight Anderson, Anthony J. Faras
Bacteria and Fungi: P. Patrick Cleary, Patrick M. Schlievert, Russell C. Johnson, Stewart Scherer
Immunology and Host Defenses: Beulah Holmes Gray, Ronald Jemmerson, Robert Nelson

**DEVELOPMENTAL BIOLOGY**
Martin Dworkin, James Zissler, Donna Fontana

**MICROBIAL ECOLOGY AND PHYSIOLOGY**
Palmer Rogers, Edwin L. Schmidt, Richard S. Hanson, Michael Flickinger

Candidates are expected to develop (ass’t professor) or be engaged in (associate level) an independent research program and to obtain extramural support; to develop and teach undergraduate/graduate courses in relevant areas; to supervise and train Ph.D. students; and to participate in appropriate departmental and collegiate activities. Candidates at the assistant professor level will have the Ph.D. or M.D. degree and two years postdoctoral experience. Candidates at the associate professor level will have the above plus five years experience and an independent research grant. Closing date for receipt of applications is April 30, 1987.

Candidates should submit a curriculum vitae, summary of research interests, and the names of three referees to:

**Ashley T. Haase, M.D.**
Professor and Head
Department of Microbiology
University of Minnesota Medical School
Box 196 UMHC, 420 Delaware S.E.
Minneapolis, MN 55455

**ASSOCIATE/ASSISTANT PROFESSOR**
**INSTITUTE FOR ADVANCED STUDIES IN BIOLOGICAL PROCESS TECHNOLOGY**
University of Minnesota

The Institute for Advanced Studies in Biological Process Technology in the College of Biological Sciences of the University of Minnesota invites applications for a tenure track or tenured faculty position at the rank of Assistant or Associate Professor of Microbiology or Genetics and Cell Biology. It is anticipated that the position will be filled at the Associate Professor level; applicants at the Assistant Professor level will be considered.

Applicants must have a Ph.D. in microbiology, genetics, biochemistry or related field. We seek an individual whose research interests are the genetics, physiology or metabolism of microorganisms, preferably the fungi and gram positive bacteria. Applicants for assistant professor must have a minimum of 2 years of postdoctoral training and demonstrated research ability. Applicants for associate professor must have a minimum of five years of professional experience, demonstrated ability to develop an independent research program, and a strong record of publication. Preference will be given to individuals who have an interest in application of their research to biotechnology.

Tenure and teaching responsibilities for this position will reside in the Department of Microbiology or the Department of Genetics and Cell Biology. Tenure is dependent upon meeting written University criteria and recommendation by faculty. Position available fall of 1987. Salary negotiable based on applicant’s previous experience. Applicants should send a letter summarizing their teaching experience, goals and research interests, a curriculum vitae, relevant reprints, and have three letters of recommendation sent to:

**Professor Palmer Rogers, Chairman, Search Committee**
Institute for Advanced Studies in Biological Process Technology
240 Gortner Laboratories
1479 Gortner Avenue
University of Minnesota
St. Paul, Minnesota 55108

Applications should be postmarked no later than April 15, 1987.

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