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General Information

Site:
The Georgetown University Conference Center and Guest House (Thomas and Dorothy Leavitt Center) located on Campus.

Registration Fee:
US $800.00; $US 50.00 for students and post-doctoral fellows; no charge for press. Registered participants are entitled to printed materials of the symposium and working lunches on the two days of the symposium.

Accommodations:
A number of rooms have been reserved for participants at the Georgetown University Conference Center and Guest House.

Proceedings:
Symposium proceedings will be available in the “Fidia Research Foundation Symposium Series.”

Further information can be obtained from:

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ASSISTANT PROFESSOR. The Department of Pharmacology and Molecular Sciences has a tenure-track position at the assistant professor level available for the fall of 1991 in the area of bio-organic chemistry with particular reference to the mechanisms of drug action and drug design and synthesis. Applicants should have a strong background in organic chemistry and an interest in its application to biochemistry. Responsibilities will include teaching graduate level courses in bio-organic chemistry and the basic mechanisms of drug action. The department provides an excellent research environment, with facilities which include the Eastern Regional Mass Spectrometry Center. There is also access to a 600-MHz high field NMR facility. Send curriculum vitae, and several sample papers to: Dr. Thomas, Department of Pharmacology, The Johns Hopkins University (JHU), School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. JHU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. The Division of Cellular and Molecular Biology at the Dana-Farber Cancer Institute and the Department of Biological Chemistry and Molecular Pharmacology at Harvard Medical School is currently seeking a search for an assistant professor. We would like to identify applicants who are addressing contemporary issues in cell and animal development using model systems that are amenable to genetic analysis. In addition to developing a basic research program, the successful candidate will be expected to participate in educational activities at the Dana-Farber and Harvard Medical School. Interested candidates should submit curriculum vitae, brief research description, and three letters of reference. Charles D. Scriver, Search Committee Chair, Division of Cellular and Molecular Biology, Dana-Farber Cancer Institute, Mayer, Building, Room 830, 44 Binney Street, Boston, MA 02115. The Dana-Farber Cancer Institute and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minority candidates are particularly encouraged to apply.

The Department of Pediatrics, University of California, San Diego (UCSD), is now accepting applications for an ASSISTANT PROFESSOR (ladder rank) in the Division of Immunology/Allergy. Applications are invited for an M.D. or Ph.D. interested in developing a research program in molecular immunology related to the mechanism of allergic disorders. Position is primarily a research position; however, participation in a clinical pediatric immunology and allergy center is also a possibility. Performing clinical investigation is desired but not required. Candidates will participate in the existing divisional teaching program of fellows, residents, and students. Consideration will be given to individuals who are licensed or eligible to practice medicine in the State of California. Salary commensurate with skills, knowledge, and University of California policy. Candidates with completed postdoctoral educational experience in immunology are asked to send curriculum vitae, list of three references, and research plan by 1 April 1991 to: Hana L. Spiegel, Head, Division of Immunology and Allergy, Department of Pediatrics, UCSD School of Medicine, 9500 Gilman Drive, 0609-D, La Jolla, CA 92039-0609. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, ANATOMICAL SCIENCES. Applications invited for tenure-track appointment as assistant professor in the Department of Anatomy, College of Veterinary Medicine, Cornell University. Candidate must have strong background in morphological sciences and a productive research program. Research in the department includes cartilage biology, functional morphology of muscle, craniofacial development, and neurocysticurology/neuropathology. Collaborative opportunities exist, in cancer biology, exercise physiology, reproductive biology, and molecular biology. New TEM/SEM/LM and image analysis facilities available. Candidates should have teaching experience in the morphological sciences and an interest in teaching in veterinary anatomy curriculum. Ph.D. degree required: D.V.M. and postdoctoral experience desirable. Send curriculum vitae, up to three letters of reference, and research accomplishments and goals, and names of three references to: Dr. Cornelius Farnum, Department of Anatomy, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401. Deadline: 10 April 1991; starting date: August 1991. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, GENETICS TENURE TRACK. Tenure-track position for September 1991. Ph.D. required. Teaching duties to include a course in genetics, an advanced course in specialization, and participation in the freshman course. The successful candidate will be expected to maintain an ongoing research program. The biology department consists of nine faculty and offers the bachelor's degree in biology. Submit resume, statement of teaching and research goals, and three letters of reference postmarked no later than 22 March 1991 to: Dr. Thomas Knight, Department of Biological Sciences, University of Southern Maine, Box 96, Falmouth Street, Portland, ME 04103. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

BIOLOGICAL SCIENCES. Starting 15 September 1991. Tenure-track position at the rank of ASSISTANT PROFESSOR. Ph.D. required. Postdoctoral experience and research in neuroscience and a strong interest in teaching and research in development and behavior are required. Send curriculum vitae, statement of research interests, three references, and statement of teaching philosophy and research interests by 1 April 1991 to: Chair, Biology Search Committee, Department of Biological Sciences, Youngstown State University, Youngstown, OH 44555. (Appointment of this position is subject to availability of funds and/or position.) Youngstown State University is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST, ASSISTANT PROFESSOR Position. The Department of Physiology invites applications from individuals with postdoctoral experience for a tenure-track position. Cardiovascular research is emphasized but all qualified applicants will be considered. Successful candidates will establish an independent research program, seek extramural funding, and participate in teaching medical physiology. Send curriculum vitae; brief description of teaching experience, current research activities, and career goals; and names of three references to: D. Pedretz, Ph.D., Chairman, Department of Physiology, Kirksville College of Osteopathic Medicine, Kirksville, Missouri 63501. KCOM is an Equal Opportunity/Affirmative Action Employer.

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Applicants should submit curriculum vitae and a concise description of research interests and goals, and should arrange for three letters of recommendation to be sent to: Professor Elizabeth H. Leduc, Division of Biology and Medicine Box G-55, Brown University, Providence, Rhode Island 02912. Applications deadline: 15 March 1991. We encourage applications from women and minority candidates. Brown is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR, NEUROANATOMY

The Department of Biological Sciences, Neurobiology Section, and the Program in Neural, Informational, and Behavioral Sciences (NIBS) invite applications for a tenure-track faculty position in Neuroanatomy. Preference will be given to those whose research interests focus on the organization and chemistry of circuits underlying behavior. The candidate will be expected to develop an independent research program and to participate in undergraduate and graduate teaching within the College of Letters, Arts, and Sciences. The successful candidate will have a Ph.D. and/or M.D. degree or equivalent. Applicants are expected to hold Ph.D. and/or M.D. degrees and have postdoctoral research experience. The department is particularly interested in individuals whose research utilizes molecular, cell biological, and/or anatomical approaches to the study of one or more of the following: (i) the regulation of cell proliferation and differentiation in normal and neoplastic cells; (ii) growth factors, their receptors and function; or (iii) transcriptional regulation. Applicants should send current curriculum vitae and a brief statement of research plans and past teaching experience to: Dr. Martin Flax, Professor and Chairman, Department of Pathology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. Applications will be accepted until the position is filled.

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ASSISTANT/ASSOCIATE PROFESSOR

New position, begin now or late August. Experienced faculty member, Ph.D. in biology with research experience in plant molecular biology. Salary negotiable. Salary depends on experience. Applicants should send current curriculum vitae and three letters of recommendation. Send letter stating interests, complete résumé, transcript, and letter of reference by 15 March 1991 to: Sister John Karen Frei, Associate Vice President, Biological and Biomedical Sciences, Barry University, Miami, FL 33161.

ASSISTANT OR ASSOCIATE PROFESSOR

Department of Pharmacology and Toxicology, University of Texas Medical Branch (UTMB) at Galveston. Applications are invited for up to two tenure-track positions to begin as early as July 1, 1991. Salary will be competitive with those of comparable positions in the next 1 to 2 years. Special attention will be given to individuals with experience and interest in applying molecular biological techniques to the investigation of pharmacological or toxicological problems. Research interest in the cardiovascular, nervous, or endocrine systems is desirable but other areas will be considered. Associate professor candidates should have an established, independent research program and an outstanding publication record, while assistant professor candidates will be expected to establish such a program. Women and minorities are encouraged to apply. Duties will include teaching medical graduate students. We offer an environment conducive to teaching and research in one of the finest teaching hospitals in the country. University of Texas System Memorial Health centers. Interested persons should send curriculum vitae, statement of research interests, three representative publications, and names of three references to: Dr. W. Cooper, Chairman, Department of Pharmacology and Toxicology, UTMB, Galveston, TX 77550. UTMB is an Affirmative Action/Equal Opportunity Employer. UTMB hires only individuals authorized to work in the United States.

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ASSISTANT/ASSOCIATE PROFESSOR

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PLANT PHYSIOLOGIST

The Department of Biology invites applications for a tenure-track faculty position in Plant Physiology. The position is available at a rank open to assistant professor or associate professor level. Applicants must have a Ph.D. in plant biology and a research program in plant physiology. The successful candidate will be expected to develop an independent research program and to participate in undergraduate and graduate teaching. The successful candidate must have a Ph.D. and postdoctoral experience. The position is available at the assistant professor level. Interested candidates should submit a letter of application, a complete curriculum vitae, a statement of research interests, and three references to: Dr. E. J. Pena, Department of Biology, University of Arizona, Tucson, AZ 85721-0097.
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Send current curriculum vitae, and the names of three references to: Dr. Jon S. Morrow, M.D., Ph.D., Professor and Chairman, Department of Pathology, Yale University School of Medicine, 301 Cedar St. New Haven, CT 06510. Yale University is an equal opportunity, affirmative action employer. Minority and women candidates are urged to apply.

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Responsibilities will include interacting closely with drug discovery scientists and supporting their research efforts by providing metabolic and pharmacokinetic information on new drug candidates. Requirements include a PhD and a minimum of two years postdoctoral experience using various in vitro and in vivo techniques in drug metabolism studies. A working knowledge of current analytical methodologies as applied to drug metabolism studies, experience in conducting non-clinical pharmacokinetic studies, and use of radioisotopes also required.

**Associate Research Scientists**
Responsibilities include performing non-clinical pharmacokinetic studies and developing assay methods for new drugs and their metabolites in biological fluids. Requirements include a BS/MS degree and 2 to 4 years related research experience. Knowledge of analytical techniques (HPLC, GC), laboratory data analysis and computer based data handling systems is essential.

Bristol-Myers Squibb careers offer the advantages of sustained growth, highly competitive salaries, extensive benefits and professional support in pursuing excellence. Please send resume with salary history to: BRISTOL-MYERS SQUIBB COMPANY, Pharmaceutical Research Institute, Dept. TZ-MAP, P.O. Box 5101, Wallingford, CT 06492-7661. Equal Opportunity Employer, M/F/H/V.
POSITIONS OPEN

MOLECULAR BIOLOGIST: ASSOCIATE OR FULL PROFESSOR. The Mort Center of the Department of Obstetrics and Gynecology, Wayne State University, occupies about 50,000 square feet of laboratory space and has an immediate opening for a molecular biologist to establish a strong basic sciences program in the molecular biology of reproductive processes, molecular genetics of preimplantation genetic diagnosis. The position is well funded and supports a wide range of research relating to reproduction and development. The successful candidate will be expected to complement and expand existing research strengths in cytogenetics, early embryo genesis, and reproductive toxicology. Applications should possess an M.D. or Ph.D. degree and have a strong track record in research. Salary is very competitive with excellent benefits, commensurate with background and experience.

Send curriculum vitae with names, addresses, and telephone numbers of three references to: Dr. Ernest Abel, Department of Obstetrics and Gynecology, C. S. Mott Center for Human Growth and Development, 275 East Hancock, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR NEUROBIOLOGIST

The Department of Psychiatry of Indiana University School of Medicine is in search of a scientist with a proven record to institute a program of research in molecular neurobiology with special reference to neuropsychiatric illness. The laboratory would be housed at the Indiana University School of Medicine. It is anticipated that the successful candidate would be eligible for a tenure-track appointment as an ASSOCIATE OR FULL PROFESSOR in the Department of Psychiatry as well as a joint appointment in the appropriate basic science department. Indiana University School of Medicine has a commitment to research excellence in both molecular biology and the neurosciences and a graduate training program in medical neurobiology.

Send curriculum vitae to: Hugh C. Hendrie, M.D., Ph.D., Chairman of the Department of Psychiatry and Albert E. Sterne, Professor, Indiana University School of Medicine, 834 Clinical Drive, Cottages 110, Indianapolis, IN 46202-5110. Telephone: 317-274-4012. Indiana University is an Equal Opportunity/Affirmative Action Employer and Contractor, M/F.

DIRECTOR, HISTOCOMPATIBILITY TESTING LABORATORY

The Cleveland Clinic Foundation is seeking an ex-

perienced individual to assume responsibility for its Histocompatibility Testing Laboratory. The laboratory supports multiple renal and non-renal transplant programs in northeastern Ohio and the state. The clinician must be a board-certified director, technical supervisor according to the Standards of the American Society for Histocompatibility and Immunogenetics. Preference will be given to individuals who enjoy the excitement and challenge of clinical, translational and basic research. Please send curriculum vitae to: Gerald A. Hoelte, M.D., Chairman, Department of Blood Banking and Transfusion Medicine, The Cleveland Clinic Foundation, One Clinic Center, 9500 Euclid Avenue, Cleveland, OH 44195-5133.

INTERNATIONAL DEVELOPMENT SENIOR PROGRAM OFFICER

The Board on Science and Technology for Interna- tion Development, of the National Research Council is seeking a senior program officer to manage technical support for research projects in developing countries on control of vector-borne diseases. Responsibilities include coordinating project planning, evaluation, monitoring, and providing scientific advice. Substantial time traveling in Third World expected. Requires a Ph.D. or equivalent related to vector biology and entomology, familiarity with applied molecular genetics techniques and with current developments in vector control. Application is due at least 4 to 6 years research and administrative experience including interaction with scientists in developing countries, positions of leadership, and experience with technical assistance programs for developing countries in malaria research and control highly desirable. Applications by March 1, 1991. Address: Norman H. Kraybill, Department of). NRC/OST, PO Box 20418, Washington, DC 20018. Equal Opportunity Employer.

POSITIONS OPEN

CLEMSON UNIVERSITY

ENDOWED CHAIR IN MOLECULAR GENETICS

The Division of Agriculture and Natural Resources at Clemson University is seeking applications and nominations for an ENDOWED CHAIR in Molecular Genetics. Mr. Coker for many years was president of Coker Pedigree Seed, a leading company in the development of cotton varieties, and a life trustee of Clemson University.

We are seeking a molecular geneticist with an outstanding record of research achievement in plant biology or a closely related discipline. This individual will have the opportunity to play a significant role in the development of molecular genetics at Clemson University. The appointment is a 12 month position with research and teaching responsibilities. Clemson University, the land grant institution of South Carolina, has graduate programs in all prominent areas of the agricultural sciences. The successful candidate will have the choice of departmental affiliations and is expected to conduct an active research program with extramural support.

Please send curriculum vitae to: Dr. Albert Abbott, Chairman, Coker Search Committee, Department of Biological Sciences, 132 Long Hall, Clemson University, Clemson, SC 29634. Telephone: 803-656-3060. Fax: 803-656-0435. Applications and nominations should be submitted to: Coker Chair Search Committee, Clemson University, 101 Barre Hall, Clemson University, Clemson, SC 29634-0351. Applicants should submit curriculum vitae and a statement of research interests and interests. Applicants and nominators may request that their candi- dacy remain confidential. Position will be available 1 July 1991. Applications and nominations will be accepted until 3 May 1991 or until the position is filled. Clemson University is an Equal Opportunity/Equity Institution.

CHAIR, DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Cleveland State University

A search for the combined position of the chair of the Department of Biochemistry and Molecular Biology and the director of the Fels Cancer Research Institute has been initiated. Candidates should have proven leadership ability as demonstrated by successful experience in directing a basic science department or program. The successful candidate will be expected to demonstrate interest and ability in effective teaching and the capability of providing the administrative leadership to continue and expand the Institute's research programs and the Institute's exten- sional activities. The position is tenure-track and includes appointment as Professor with tenure. Salary and benefits are commensurate with experience.

Candidates are asked to send a letter of interest with a vita and three references to: Dr. Walter Gilium, Chairman, Search Committee, 802 Waters Avenue, Cleveland, OH 44113. Cleveland State University is an Equal Opportunity/Affirmative Action Employer.

TEMPLE UNIVERSITY

CHAIR, DEPARTMENT OF MOLECULAR BIOLOGY AND CANCER RESEARCH

FELS CANCER RESEARCH INSTITUTE

TYPICAL POSITION

A search is being conducted for a senior scientist with demonstrated leadership and programmatic success to replace the current Chair of the Department of Molecular Biology and Cancer Research at the Fels Cancer Research Institute of Temple University, Philadelphia, PA. The Chair will provide leadership, programmatic development and management of the Fels Cancer Research Institute. The Chair will be expected to initiate and maintain close collaboration with the Departments of Oncology and Microbiology and Immunology and ongoing development of additional relationships with the other core laboratory facilities and Cancer Institute Center members. The Chair will also have full responsibility for the recruitment, mentoring and development of junior faculty and fellows, with the objective of expanding the research strengths in cancer research and teaching, service, and training. An excellent opportunity exists to expand an already strong program in molecular biology and cancer research.

Applications are accepted until 30 June 1991 and should include curriculum vitae, a summary of current research, a description of teaching and administrative responsibilities, and names, addresses, and telephone numbers of three or more references. Mail applications to: Robert W. Colman, M.D., Chair of the Search Committee, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

Temple University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.

UNIVERSITY OF CHICAGO

DIRECTOR FOR Department of Psychiatry’s functional brain imaging program. Tenure-track position to develop research program using PET and SPECT facili- ties. Rank commensurate with experience. M.D. or Ph.D. applicants preferred. Applications should be submitted to: Stuart Yudofsky, M.D., Professor and Chairman, Department of Psychiatry, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637.

POSITIONS OPEN

THE SCHOOL OF MEDICINE UNIVERSITY OF WASHINGTON

Invites applications and nominations for the position of CHAIRPERSON of the Department of Biochemistry. The School of Medicine seeks a scientist with an outstanding research program who is committed to the education of students in biochemistry and the health professions. Letters of application should be received by: 31 March 1991, and should contain at least five refer- ences. The application should be accompanied by current curriculum vitae and a letter of interest. Address replies to: H. Richard Winn, M.D., Professor and Chairman, Depart- ment of Neurological Surgery, ZA-86, Chairman, Biochemistry Search Committee, University of Washington, Seattle, WA 98195. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

TRANSPLANT IMMUNOLOGIST. Full-time fac- ulty position at the University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, for M.D. or Ph.D. pathologist with training in IHL and paten- testing, to be the DIRECTOR of Clinical HLA/Tissue Transplant Laboratory. Participation in teaching of med- ical and graduate students and residents. Equal opportuni- ty. Applicants should send curriculum vitae and three names and telephone numbers of references to: Robert C. Winn, M.D., Chairman, Department of Pathology, BMSB 451, P.O. Box 26901, Oklahoma City, OK 73190. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

United States Biochemical Corporation’s Custom Se- queencing Service is accepting applications for a MAN- AGEMENT LEVEL position. The successful applicant will be required to direct technicians involved in a variety of DNA sequencing projects, including sequencing large fragments of DNA. Experience in the use of sequencing and DNA preparation cloning, and data management is essential. USB™ offers competitive salaries and benefits as well as an excellent, innovative working environment. Please submit resumes, including publications, and names and telephone numbers of references to: Manager of Personnel Services, JC-2 United States Biochemical Corporation P.O. Box 22400 Cleveland, OH 44122 Equal Opportunity Employer, M/V/H.

DIRECTOR

ROBERT ALLERTON PARK AND CONFERENCE CENTER UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Continuing Education and Public Service invites ap- plications/nominations for Director of Robert Allerton Park and Conference Center. Park includes 1500 acres of forest, woodlands, formal gardens, and residential con- ference center.

Full-time. Responsible for education, research, and public service missions, with annual budget of about $1 million. Coordinate educational and research activities, direct major capital improvements, increase revenue sources, and maintain liaison with the campus and gen- eral public.

Master’s required, doctorate preferred, in natural sci- ences, business, education, park management, or related areas. Prefer at least 5 years of senior-level experience in natural area, budget, conference, or similar higher educa- tion management. An adjunct appointment possible. Salary negotiable. 21 August 1991. Application/ Interview.

The University of Illinois at Urbana-Champaign is an Affirmative Action/Equal Opportunity Employer.
Make A Difference In The Quality of Life

The Hyland Division of Baxter Healthcare, a leader in the area of human plasma-derived protein therapeutics, is undertaking the development of its next generation of therapeutics with the aid of state-of-the-art biotechnology. We seek energetic individuals who can contribute effectively in a multi-disciplinary R&D environment in the following areas:

**SCIENTIST IV**

**Protein Characterization (Dept. LD/C-4)**

We seek an individual with demonstrated expertise in the characterization of proteins, with emphasis on the development of structural and functional studies. Experience in the investigation of posttranslational modifications will be expected. Applicants must be thoroughly familiar with all aspects of current protein chemistry and biochemistry. Individuals with PhD in biochemistry or related field are encouraged to apply.

**SCIENTIST III**

**Protein Characterization (Dept. LD/C-3)**

We seek an individual to participate in the characterization of proteins under investigation. Experience in a variety of protein characterization methods (e.g. chromatography, protein chemistry and sequencing, carbohydrate analysis, mass spectrometry) is desired. Individuals with MS in biochemistry or related field are encouraged to apply, though applicants with relevant BS degree and industrial experience will be considered.

**SCIENTIST IV**

**Molecular Biology (LD/MB-4)**

The successful candidate will have demonstrated skill in the cloning, engineering and expression of proteins. Experience with immunoglobulin genes or chimeric proteins preferred. Individuals with an interest in helping to establish this new department are encouraged to apply. A PhD with relevant graduate or postdoctoral experience is required.

**SCIENTIST III**

**Molecular Biology (DEPT. LD/MB-3)**

We seek a self-motivated individual proficient in the analysis and construction of plasmids, and blotting and hybridization of nucleic acids. Familiarity with tissue culture would be an advantage. BS/MS Scientists with at least 3 years laboratory experience (including work towards MS) in Molecular Biology are encouraged to apply.

**SCIENTIST III or IV**

**Cell Culture Process Development (DEPT. BF/CC)**

The selected candidate will be responsible for maintaining viable working cultures, adapting them to serum-reduced and/or defined media, selecting and optimizing process conditions for maximizing product, and the operation of small and large bioreactors for cell culture supernatant production as needed. You will analyze experimental data and prepare reports. You will also assist other personnel in the scale-up of the cell culture process. A BS in biology or biochemical engineering is required; an MS degree in cell biology or biochemical engineering is preferred. 3-5 years of work experience in a cell culture or fermentation laboratory or pilot plant is essential.

Baxter Healthcare Corporation, a Fortune 100 company, is synonymous with products, systems and services devoted to improving health care throughout the world. We provide a smoke-free environment, competitive compensation and benefits. Please send your resume in confidence (indicating the outer envelope the Dept. Code for your position of interest) to: Baxter Hyland Division, Human Resources Dept., 4501 W. Colorado Blvd., Los Angeles, CA 90039. An Affirmative Action/Equal Opportunity Employer.

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Hyland

Baxter
ANALYTICAL CHEMISTS

Battelle, a world leader in contract research and technology application, has three excellent opportunities for experienced chemists as described below:

DEPARTMENT MANAGER – This position, reporting directly to Battelle's Vice President of Product Registration and Evaluation, will direct the Dose Preparation and Analytical Chemistry Department. The manager will supervise a staff of 15-20 chemists and technicians and provide technical leadership in the development and application of assays for test chemical purity, stability, and concentration in dose mixtures and biological matrices. Staff from this department are an integral part of our toxicology and pharmacology study teams. Background should include a PhD in chemistry or a related discipline and at least 3 years of experience or a Master's and at least 5 years of experience. Requires broad knowledge of analytical techniques to identify and quantitate organic and inorganic substances and a working knowledge of GLP regulations.

RESEARCH SCIENTIST (two positions) – These positions, in our Environmental Fate Department, involve directing environmental fate chemistry studies and interacting with clients to develop new projects and monitor ongoing work. Successful candidates will have a PhD in chemistry or biochemistry; experience with radiochemistry, TLC, and HPLC; and the ability to develop protocols of metabolism and environmental fate studies to support registration with EPA. Familiarity with EPA, FIFRA, and GLP requirements would be very desirable. Battelle offers competitive salaries, comprehensive benefits, and opportunities for career growth and advancement. If interested in the positions presented above, please send your resume to: Mr. Richard Shaw, Battelle, Dept. 235, 505 King Avenue, Columbus, Ohio 43201-2693. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

AGRICULTURAL MICROBIOLOGY

W.R. Grace & Co.-Conn., a Fortune 100 Company and the world's largest specialty chemical company, has an exceptional opportunity for a microbiologist in its Biological Control Program.

This position requires a BS or MS degree in Microbiology, Plant Pathology or Mycology with 2 to 5 years industrial experience in microbial product R & D. Experience handling fungal cultures using sterile microbiological techniques is essential.

You will be involved in the development of microbial inoculants including maintenance of pure microbial cultures, formulation evaluation, in vitro and plant bioassays of biological control agents, and product characterization.

Grace offers an attractive salary, excellent benefits program and a rewarding growth-oriented career. We actively encourage the publication of technical papers. The Washington Research Center is located midway between Baltimore and Washington, DC in the picturesque community of Columbia, Maryland. Please send resume and salary history, in confidence, to: Manager, Employment, Department 1043, W.R. GRACE & CO.-CONN., Washington Research Center, 7379 Route 32, Columbia, MD 21044. We are an equal opportunity employer M/F/H/V.

TWO POSITIONS AVAILABLE

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY

UNIVERSITY OF MINNESOTA

Two tenure-track faculty positions in molecular biology as it relates to diagnostic pathology are available for candidates with an M.D. or Ph.D. degree who have a minimum of two years post-graduate experience in the field of molecular biology. Demonstration of scholarly achievement and research productivity is necessary. Successful candidates will be expected to develop an independent research program in an area of molecular biology related to pathology or clinical laboratory science. Responsibilities will include didactic teaching/training of residents, medical students, graduate students and post-doctoral fellows. These persons will also assist in the direction of a clinical molecular diagnostic laboratory, and will develop and implement new molecular-based diagnostic tests.

Deadline for receipt of applications is April 30, 1991. Applicants please send curriculum vitae, names of three references, and a brief synopsis of research activities to:

Diane C. Arthur, M.D.
Chair, Molecular Diagnostics
Search Committee
Department of Laboratory Medicine & Pathology
Box 158 UMHC, 420 Delaware St. SE
Minneapolis, MN 55455

The University of Minnesota is an equal opportunity educator and employer.
Assistant Associate or Senior Scientist

The Department of Biology is seeking a BIO-OPTICAL OCEANOGRAPHER. A tenure-track position is available on the Scientific Staff of the Biology Department which currently numbers 27 and has diverse research interests. We seek applicants with experience in bio-optical properties of the upper ocean and/or remote sensing of ocean color. Applicants should have a Ph.D. Collaborative research with staff in the Institution's other departments, Chemistry, Physical Oceanography, Geology and Geophysics, and Applied Physics and Ocean Engineering is encouraged. Teaching opportunities exist in the WHO/MT Joint Program in Biological Oceanography.

Send resume with the names of 3 professional references to: Chairman, Biology Department, Box 844R.

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THE UNIVERSITY OF QUEENSLAND

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Equal opportunity in employment is University policy

- Lecturer (Tenurable/fixed term)

- Anatomy

- The appointee will contribute to the teaching of Comparative Anatomy to Veterinary students. Additional teaching may be required in one of the subjects offered to science students in embryology, neuroanatomy or histology. Active involvement in an individual or group research programme is essential.

- Higher degree in a field of study appropriate to the responsibilities of the position. Preference will be given to veterinary science graduates. Applicants should have demonstrated a research capability in an area of comparative anatomy of biology.

- The salary range for a lecturer is Australian $33,163; $34,584; $36,003; $37,420; $38,841; $40,257; $41,677; $43,096 per annum.

CLOSING DATE: 8 MARCH 1991

- Applications quoting Reference No. 01291 must be forwarded to: The Director, Personnel Services, University of Queensland, St. Lucia, Brisbane, Queensland, Australia, 4072

Cancer Therapy Research

Pfizer Inc is an international leader in the research and development of health care products. The Cancer Research Department of the Central Research Division is committed to exploiting recent advances in the understanding of cell growth regulation to discover novel drugs for the treatment of cancer. We currently are focusing on new strategies to alter the function of oncogenes and antioncogenes with pivotal roles in human tumor development.

You are particularly encouraged to apply for this position if you have a PhD and postdoctoral study in cell or molecular biology. Experience in the biochemistry of oncogenes or antioncogenes or in transcriptional regulation of growth regulatory genes is desirable.

Our approach to drug discovery encourages individual creativity as an important element in guiding a team effort toward a therapeutic target. Scientific growth and development are stimulated by frequent interactions with prominent scientists in academia and medicine as well as with members of the research community within Pfizer.

In addition to a stimulating research environment and an excellent opportunity for professional recognition and advancement, we offer a competitive salary/benefits package and the opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

Central Research
Bringing science to life.

Postdoctoral Research Fellowship

Neuroscience

There exists an immediate opening for a neuroscientist interested in neuronal calcium channels and their pharmacologic characterization using relevant in vitro methods including radioligand binding, ion flux and neurotransmitter release. The candidate will be encouraged to take advantage of a multidisciplinary research environment. An opportunity also exists for participation in the strategy of designing both novel peptide and nonpeptide compounds.

Applicants should be recent PhD graduates in Pharmacology or Neuroscience; experience in neuropsychological and neurobiological techniques is desirable.

Appointment is for one year, renewable for a second year. Compensation includes a $32,000 annual salary with relocation expenses and an attractive benefits package. Our modern research facilities are located adjacent to the University of Michigan in an outstanding living and working environment. Send letter of application with curriculum vitae and names of three references to Box JDM PD040, Human Resources, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"
POSITIONS OPEN

The Health Effects Research Laboratory of the U.S. Environmental Protection Agency (EPA) conducts intramural studies in toxicology, biochemistry, and molecular and cellular biology. In particular, we are interested in the role of constituent pollutants in human health and disease. Current scientific emphasis is on developmental reproductive toxicology, genetic toxicology, neurotoxicology, toxicology of other target organs, pharmacokinetics, biotransformation, and epidemiology (both infectious disease and chemical). PRINCIPLE INVESTIGATOR and TECHNICAL SUPPORT openings are anticipated in these areas. Special consideration will be given to persons with experience in developmental reproductive toxicology. Please send curriculum vitae and three references to: Dr. John R. Fowle III, c/o Ramona Litowski, HRMD (MD-29), U.S. EPA, Research Triangle Park, NC 27711 by 20 April 1991. EPA is an Equal Opportunity Employer. Only U.S. citizens are eligible.

DEPARTMENT OF VETERANS AFFAIRS VETERANS HEALTH SERVICES AND RESEARCH ADMINISTRATION HEALTH SCIENCE SPECIALIST

VA's Office of Research and Development, Medical Research Service, is seeking applicants for the position of health science specialist under the Intergovernmental Personnel Act (IPA). Under the IPA, the health science specialist would remain a faculty member at his/her current university and VA would reimburse the University for salary and benefits at the appropriate federal level for two years, with the possibility of extension. Responsibilities included participation in the development of policy and procedural directives, analysis of research proposals, review of external research proposals and scientific review boards, supervision and/or preparation of research summary statements, arrangement and participation in site visits of research programs, and analysis and preparation of program and budgetary data related to scientific reviews, results, and trends. Applicants should have a Ph.D. or equivalent and some research and administrative experience.

Qualified applicants are invited to send curriculum vitae, bibliographies, and the names, addresses, and telephone numbers of three references by 30 March 1991 to: Richard J. Greene, M.D., Assistant Chief Medical Director for Research and Development (142), Department of Veterans Affairs, 810 Vermont Avenue, N.W., Washington, DC 20420. Further information may be obtained from the same address or by calling: Dr. Leroy Frey, Chief Program Review Division, 202-233-8065, or the Recruitment and Examining Division, VA Central Office, 1-800-368-5629. Equal Opportunity Employer.

CORRECTION: MOLECULAR BIOLOGIST INFORMATION SPECIALIST

Please note correction of the application deadline for this position at the NIH National Library of Medicine (NLM), which was advertised in the 4 and 11 January 1991 issues of this publication. Publication, in error, listed closing date as 1 July 1991. Actual closing was 23 January 1991. Direct questions to: Ms. Apolito, NLM, Building 38, Room ZN17, 8006 Rockville Pike, Bethesda, MD 20894.

COLUMBIA COLLEGE

SABBATICAL REPLACEMENT POSITIONS, BIOCHEMISTRY AND PHYSICAL CHEMISTRY

The Chemistry Department of Colby College invites applications for two 1-year sabbatical replacement positions, one in biochemistry and one in physical chemistry. The candidate should have a Ph.D. in the respective discipline and an interest in teaching undergraduates. Colby is recognized for excellence in secondary education and for close student-faculty interaction. The department is well-equipped with modern instrumentation including a JEOL GX-400 MHz NMR, Curriculums, transfer students, and recommendation should be sent to: Professor Thomas W. Shattuck, Chair, Department of Chemistry, Colby College, Waterville, ME 04901. Applications received before 15 March 1991 will be given first consideration. Colby is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

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POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS IN MOLECULAR PHARMACOLOGY (ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, AND PROFESSOR)

UNIVERSITY OF MINNESOTA

Applications are invited for several positions of assistant professor (tenure track), in the Department of Pharmacology, Medical School. Successful candidates are expected to establish an outstanding independent research program in the area of molecular neuropharmacology and to participate in teaching responsibilities. Requirements include a Ph.D. in pharmacology, biochemistry, cell biology, or related field. Applicants should have demonstrated capability of securing research support, experience in teaching and advising. Candidates with a strong research background and experience using recombinant DNA technology for studying pharmacological problems and/or molecular biology of the CNS are preferred. Applicants must have demonstrated involvement in quality research published in peer-reviewed journals.

Appointment as assistant professor (tenured) or full professor (tenured) may be considered for applicants with professional distinction in published research and who have documented experience in teaching and advising. Appointment at these ranks must meet the minimum qualifications established by the University of Minnesota.

Candidates should send curriculum vitae, significant reprints, a statement of research plans, and three names for reference purposes to: Dr. J. W. Miller, Professor and Chairperson, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 445 Delaware Street, S.E., Minneapolis, MN 55455. Deadline for receipt of applications is 15 April 1991.

The University of Minnesota is an Equal Opportunity Educator and Employer.

HIGHER EDUCATION POSITION IN PUERTO RICO

Invites applications and nominations for the following positions:

• FULL-TIME INSTRUCTOR. Mathematics department. M.S. in Mathematics and 2 years of college-level teaching experience required. Courses to be taught in Spanish; 15 credit-hours course load. Starting salary of $18,960 plus fringe benefits. 5 positions available.
• FULL-TIME ASSISTANT PROFESSOR. Mathematics department. Ph.D. in mathematics and 5 years of college-level teaching experience required. Courses to be taught in Spanish; 15 credit-hours course load. Starting salary of $25,320 plus fringe benefits. One position available.
• FULL-TIME VISITING PROFESSOR. Electrical Engineering and Electronic department. Ph.D. in electrical engineering and electronics and 3 years of college-level teaching experience required. Courses to be taught in Spanish; 15 credit-hours course load. Starting salary of $28,620 plus fringe benefits. One position available.

Deadline April 1991. Send resume and academic credentials to:

Inter American University of Puerto Rico Central Administration Office of Human Resources
Box 363255
San Juan, PR 00936-3255

The University of Puerto Rico, a nonprofit private institution, is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION, IMMUNODERMATOLOGY. In Department of Pathology, The University of Michigan. A POSTDOCTORAL FELLOWSHIP and an ASSISTANT RESEARCH SCIENTIST (non-tenure-track) faculty position is immediately available to study the role of HIV-1 in psoriasis with emphasis on dermal dendrocytes [Science 243, 1736 (1989)], and the cytokine network [J. H. Fenton, J. Invest. Dermatol. 106, 129 (1991)]. A 3-year appointment is available for candidates with either a Ph.D. or M.D. degree and a background in cellular immunology involving macrophages, TNF-alpha, and/or molecular immunology. Individuals with U.S. citizenship or permanent residents. Send curriculum vitae and names of references to: Brian J. Nickoloff, M.D., Ph.D., 484323 Medical Sciences I, Box 062, 1301 Catherine Road, Ann Arbor, MI 48109.

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SCHOLARSHIP, SCIENCE, VOL. 250
Extraordinary growth at the Agricultural Research Division of American Cyanamid Company has created a broad range of opportunities for talented research scientists. At our 640-acre campus-like Princeton headquarters, your research activities will be supported by the resources of a company whose research budget tripled in the last decade. Working just minutes from Princeton University, you'll find a deep commitment to employing advanced biotechnology and the highest quality science in an atmosphere where ideas are encouraged and talent is recognized and rewarded.

ANIMAL DISCOVERY

Research Molecular Biologists

Working in our Molecular Genetics Group, the successful candidate will analyze specific G-protein linked receptors through their functional expression in microbial systems. The goal of these studies, the identification of novel receptor ligands, will be pursued through an interactive program involving biochemists, molecular biologists, chemists and fermentation microbiologists. This position requires a Ph.D. in molecular biology/genetics/biochemistry and appropriate research experience in the area of G-protein linked receptor biology. Dept. DK1

A second position is available in our Molecular & Cellular Group for a Ph.D. Research Biologist to conduct research in the area of receptor molecular biology. The successful candidate will be involved in a program to determine structure-function relationships between various receptors and their ligands using molecular biology/genetic approaches. This program is highly interactive, involving numerous scientists in other areas. Several years of postdoctoral experience in molecular biology, biochemistry and genetics are required; background in G-protein linked receptor biology and pharmacology desired. Dept. DC1

Research Molecular Parasitologist

Working in our Biochemistry & Physiology Group, you will develop an independent research program exploring new targets in parasite control for the advancement of animal health. The successful candidate will have a Ph.D. in molecular biology, molecular parasitology, parasite physiology, or a related discipline. Postdoctoral experience in applying state-of-the-art techniques to one or more of the following areas is desirable: parasite resistance, host evasion, host-parasite pathophysiology, or molecular genetics of parasites. Publication in both referred journals and the patent literature will be encouraged. Dept. PH1

Molecular Biologist/Biochemist

We are seeking a BS/MS level scientist to study the biosynthesis of the fungal cell wall using genetically manipulable species as model systems. The ideal candidate will have experience with biochemical, enzymological, genetic and molecular biology techniques, as well as S. cerevisiae molecular genetics. Those techniques will be employed to identify novel processes in the synthesis of the fungal cell wall which will be exploited for the discovery of antifungal agents. Dept. DK2

PLANT BIOTECHNOLOGY

Molecular Plant Biologists

We are seeking a Ph.D. scientist with postdoctoral experience for our Plant Biotechnology Group. You will develop heterologous expression systems for expressing plant genes in microorganisms. Dept. RC1

Our Plant Biotechnology Group is also seeking individuals at both the Ph.D. and BS/MS levels. Here, you will clone and modify plant genes by applying molecular techniques, as well as develop vectors for gene expression and plant transformation. Dept. RC2

Molecular Plant Pathologist

We're seeking an individual with a BS/MS degree in the biological sciences for an exciting program in molecular plant pathology that has recently been initiated in our Plant Biotechnology section. Genetic, molecular, and cytological techniques will be applied to a fungal phytopathogen to elucidate the specific developmental processes involved in the infection by that pathogen of a plant host. Training and experience in microbial (preferably fungal) genetics, molecular biology, and biochemistry are desirable. Dept. RC3

In addition to our unique interdisciplinary environment and history of new product innovations, American Cyanamid Company offers a competitive salary and excellent benefits, including a 401K Savings Plan. We invite you to forward your resume and salary history to: Employment Office, American Cyanamid Company, Agricultural Research Division, PO. Box 400, Princeton, NJ 08543-0400. Please be sure to indicate the appropriate department code. An Equal Opportunity Employer M/F/H/V.

Cyanamid
RESEARCH ASSISTANTS/ASSOCIATES

PROTEIN CHEMISTRY
This individual will serve as a SENIOR TECHNICAL MEMBER in our Protein Chemistry Group. They will be involved in the development of purification of native and recombinant human allergens and the chemical characterization of recombinant and modified proteins. Experience in HPLC, LC and gel electrophoresis is required. A background in immunoassay, protein modification and other biophysical techniques is a plus.

MOLECULAR IMMUNOLOGY
This individual will join a research team examining the role of T lymphocyte derived cytokines in the human allergic immune response. Requirements for the position include a Master’s degree with 1-2 years relevant experience or a Bachelor’s degree and at least 2 years relevant experience. Prior experience with recombinant DNA techniques, including isolation and analysis of mRNA, is required. Familiarity with PCR and T cell culture is preferred.

Please send cover letter and resume to: ImmuLogic Pharmaceutical Corporation, One Kendall Square, Building 600, Cambridge, MA 02139, ATTN: Human Resources Department

ImmuneLogic is a growing company dedicated to the creation of novel therapeutic and diagnostic products to modulate and monitor the human immune system. We employ state-of-the-art techniques and proprietary knowledge in immunology, biochemistry, and molecular biology to develop products in the vaccine, allergy, and autoimmune disease areas. We collaborate with world leaders in the pharmaceutical industry and in academic institutions and are already recognized as a leading force among companies focusing on immunology. ImmuneLogic provides an outstanding working environment and a unique opportunity to broaden your scientific and technical knowledge. We offer competitive salaries and benefits as well as equity participation through an incentive stock option program.

POSITIONS OPEN

ENVIRONMENTAL STUDIES
Gettysburg College invites applications for a TENURE-TRACK POSITION in environmental studies to commence with the 1991–92 academic year. Candidates should have a Ph.D. degree in one of the natural sciences and will be affiliated with the department most closely allied with her/his field of expertise. Initial responsibilities will include teaching courses in environmental science. In addition, the successful applicant will chair the Environmental Studies Committee and direct its efforts in developing an environmental studies curriculum, be responsible for preparing the annual budget and participate in writing grant proposals for environmental studies. Gettysburg College is rated as a highly selective liberal arts college and is located 1½ hours from the Washington/Baltimore area. Gettysburg College is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Submit letter of application, curriculum vitae, and three letters of recommendation to: A. R. Cavalieri, Chair, Search Committee, Gettysburg College, Gettysburg, PA 17325. Review of completed applications will begin 15 March 1991 and continue until the position is filled.

STOCKTON STATE COLLEGE

TENURE-TRACK POSITIONS, ASSISTANT PROFESSOR ($30,175 to $34,711) OR INSTRUCTOR ($24,840 to $28,550), fall of 1991.

Biology: To teach physiology, neuroscience, animal behavior/animal science, introductory biology, and courses for nonmajors. A.B.D. required; Ph.D. preferred. Environmental Science: To teach natural resources management (excluding forestry and fisheries) with emphasis on modeling and GIS, or pollution management with emphasis on control technology and environmental regulation; could include preparing students for secondary education. Master’s degree plus experience in government agencies or business/industry or Ph.D. required. Excellence in teaching and supervision of undergraduate research required; modest research support available; newly renovated science laboratories. Stockton is an undergraduate liberal arts and sciences college located in the New Jersey Pine Barrens, near Atlantic City and Philadelphia. Screening begins 1 March 1991. Send résumé and three letters of recommendation to: Dr. Barbara Byrne, Dean, Faculty of Natural Sciences and Mathematics, Stockton State College, AA29, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R102390.

PHYSICAL OR BIOLOGICAL SCIENTISTS (THREE POSITIONS); Ph.D., Ed.D., or M.D. (individual dissertation considered for appointment while completing degree). At least 27 quarter credits in graduate-level science courses. Teach introductory science courses, expand program for helping minority and educationally at-risk students prepare for non-science majors as well as science and math-intensive majors, and carry out research in a lower division unit of a research university; teaching experience or scientific research required; application deadline is 1 May 1991, but application review will begin 1 March 1991, and continue until an adequate pool is developed; starting date can be 16 September 1991, or thereafter. For a complete position description, contact: Ms. Alice Ross, Search Secretary, 340 Appleby Hall, 128 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455. Telephone: 612-625-5529.

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

MICROBIOLOGY/MOLECULAR BIOLOGY
Applications are invited for a 1-year leave replacement in the Department of Biology starting 1 September 1991. Teaching responsibilities include one course, with accompanying laboratories, each term: an upper-level course in microbiology, one in molecular biology, and a nonmajor course; and participation in senior integrative exercises. Ph.D. preferred. Women and minorities are strongly encouraged to apply. Send curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, and three letters of recommendation to: Dr. G. J. C. Hill, Biology Department, Carleton College, Northfield, MN 55057-4025. Evaluations will begin on 15 March 1991 and continue until position is filled. Carleton College is an Equal Opportunity/Affirmative Action Employer.
RESEARCH ASSOCIATES
MOLECULAR BIOLOGY

Amgen has emerged as a creative and innovative leader in the applications of biotechnology to human disease. A key component of our success is our continuing commitment to research and to providing the resources necessary for scientists to develop their full potential. As a result of this commitment and our growth, we have several opportunities for Research Associates with experience in molecular biology and mammalian cell culture.

Responsibilities for these positions include the development of mammalian expression systems, construction of cDNA libraries, and heterologous gene expression. Qualified candidates for these positions must have a B.S or M.S in Molecular or Cellular Biology with a minimum of one year's experience in basic molecular biology and tissue culture skills. Experience with general methods for the analysis of proteins is highly desirable.

Amgen offers a stimulating and challenging research environment on the cutting edge of biotechnology as well as an excellent compensation and benefits package. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #573
Amgen Center
Thousand Oaks
CA 91320-1789

Postdoctoral Fellowships in New Drug Development

The Department of Clinical and Scientific Affairs (CSA) of Pfizer Pharmaceutilicals, in New York City, is announcing its annual competition for Postdoctoral Fellowships in New Drug Development. The Department of Clinical and Scientific Affairs has a broad range of activities. It is responsible for designing and conducting non-clinical and clinical development programs, as well as investigating and developing new claims and indications for marketed drugs. CSA also designs and conducts the clinical development programs for new formulations and dosage forms of existing products.

Participants in the Postdoctoral Fellowship Program in New Drug Development will become members of project teams and gain experience in developing non-clinical as well as clinical research programs. While no laboratory or clinical studies are actually conducted at Pfizer in New York, Fellows will interact with specialists in their chosen field to have studies performed at contract laboratories and universities, or with individual investigators.

A total of two awards will be given annually for non-clinical and clinical research related to new drug development in the fields of cardiovascular medicine, central nervous system, microbiology, pharmacology, pharmacokinetics, drug metabolism, and toxicology. Salaries will be determined by the qualifications and experience of the applicant. The deadline for submitting applications is April 1, 1991. Announcement of the awards will be made in early June, 1991.

For further information contact: Postdoctoral Fellowship Program in New Drug Development, Clinical and Scientific Affairs Department, Pfizer Pharmaceuticals, 235 East 42nd Street, New York, NY 10017, Attn: Charlene Mirette, Personnel Manager. Pfizer is an equal opportunity employer.
POSTDOCTORAL POSITION IN MAIZE DEVELOPMENTAL GENETICS. To work on the molecular characterization of the det1 locus, background in molecular biology and proficiency in cloning of genomic and cDNA, and sequencing. Opportunity to study maize genetics and embryo development. Apply with curriculum vitae, statement of research training and interests, and one letter of reference from your Ph.D. sponsor, and names of three references to: Professor William F. Sheridan, Department of Biology, University of North Dakota, Grand Forks, ND 58202–8238. Telephone: 701–777–2621. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY OF TUMOR IMMUNITY Ph.D. with experience in tumor and molecular biology to study the enhancement of host immune responses in tumors using transfection or infection with alien genes. Experience with retroviral vectors preferred. Interested applicants please send curriculum vitae and letters of reference by 1 May 1991 to: Philip Frost, M.D., Ph.D., Department of Cell Biology, University of Texas M. D. Anderson Cancer Center, 1513 Holcombe Boulevard, Box 173, Houston, TX 77030. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. NIH-funded postdoctoral research fellowships in medicine and pharmacology. Case Western Reserve University, are available immediately to study the molecular and cell biology of platelet-derived growth factor expression, with a particular emphasis on transcriptional control mechanisms, or to study the molecular mechanisms of cytokine-activated signalling pathways, with emphasis on Type II phospholipase A2 gene regulation expression. Applicants must possess Ph.D. or M.D. Please address inquiries/curriculum vitae to: Michael J. Dunn, M.D., Professor of Medicine, Case Western Reserve University, 2074 Abington Road, 8124 Lakeside Cleveland, OH 44106

THE AARON DIAMOND FOUNDATION POSTDOCTORAL RESEARCH FELLOWSHIPS IN THE BIOMEDICAL AND SOCIAL SCIENCES

The Aaron Diamond Foundation in New York City announces the establishment of 25 postdoctoral research fellowships in the biomedical and social sciences focusing on AIDS or drug abuse. The purpose of the fellowships is to attract promising investigators to academic and research institutions in New York City and to encourage increased research into understanding and solving two of today’s most pressing public health problems.

Fellows are paid annual stipends beginning at $36,000. Each fellowship is for two years, with an option for a third year. Applicants must have an M.D. or Ph.D. in the biomedical or social sciences. M.D.s should have completed at least two years of clinical training and received their degrees no earlier than 1984. Ph.D.s are eligible immediately after graduation. The fellowships are open to all U.S. citizens and qualified foreign applicants who have applied for U.S. citizenship. Women and members of minority groups are encouraged to apply. Applications are accepted through mentors at New York City institutions who have agreed to sponsor a particular applicant. Mentors participating in the fellowship program are listed in the application materials. The mentor’s institution receives $30,000 to cover the fellow’s fringe benefits, travel and research costs.

For further information and application forms contact: New York State Health Research Council, Office for the Aaron Diamond Foundation Postdoctoral Research Fellowships, 5 Penn Plaza, Room 308, New York, NY 10001; (212) 613-2525.
The Division of the Biological Sciences of The University of Chicago is soliciting nominations and applications for the position of Director for the Gwen Knapp Center for Lupus and Immunology Research, one of five biomedical research centers to be located in the Institute for Molecular Medicine housed within the Jules Knapp Research Building. The other research centers will be devoted to the study of human genetics, molecular cardiology, neurobiology, and molecular oncology. The Gwen Knapp Center is committed to immunological and molecular biological research with the ultimate goal of understanding the cause and treatment of systemic lupus erythematosus. The Center will have 10,000 square feet of newly constructed research space which has been planned to house six investigators. The Director will be responsible for the development of this program and for recruitment of the five additional Center faculty members who will have primary academic appointments in an appropriate department. Generous funding is available for the establishment and initial support of this major new research program. The activities of the Center will complement ongoing programs in immunology at the University of Chicago. Please address expressions of interest and suggestions, accompanied by resumes and other relevant information (closing date: May 1, 1991) to:

Dr. Frank Firch
Chairman, Search Committee
5841 S. Maryland Ave./Box 424
Chicago, IL 60637

THE UNIVERSITY OF CHICAGO
An Affirmative Action Equal Opportunity Employer

INSTITUTE OF HUMAN GENETICS
University of Minnesota

The Institute of Human Genetics at the University of Minnesota will be hiring faculty at the rank of Professor (tenured), or Associate Professor (tenured), or Assistant Professor (tenure-track) in the area of higher eukaryotic molecular genetics. Although all areas of eukaryotic molecular genetics will be considered, there is a particular interest in expanding developmental and cancer genetics. Candidates will be expected to develop a vigorous, independent research program that complements the research being conducted by other University faculty and leads to external funding. The candidate will participate in teaching and advising, and interact with other members of the Institute in its development and programs.

Candidates at the Assistant Professor level will have a doctoral degree (M.D. or Ph.D.), at least 2 years of relevant postdoctoral experience, and demonstrated productivity in quality research accepted or published in peer-reviewed journals. Candidates at the Associate Professor level will have a doctoral degree, at least 5 years of professional experience beyond the degree, distinction in funded research and writing, and demonstrated effectiveness in teaching and advising. Candidates at the Professor level will have a doctoral degree, at least 8 years of professional experience beyond the degree, a national reputation in funded research and writing, and demonstrated effectiveness in teaching and advising. Salary and rank will be commensurate with education and experience, and tenure will be granted in the appropriate University department.

Please send a current curriculum vitae, a brief description of current and future research interests, and 3 letters of recommendation to:
Chair, Search Committee
University of Minnesota Medical School
Institute of Human Genetics
Box 206 UMH
Harvard Street at East River Road
Minneapolis, MN 55455

The last date for receipt of applications is 06/30/91.

The University of Minnesota is an equal opportunity educator and employer.

L'Université du Québec à Rimouski is a Frenchspeaking university located near the St. Lawrence estuary in Canada and oriented towards the marine sciences and the regional development. We seek applications for:

POSTDOCTORAL SCHOLARSHIPS
1991-1992

Description
The postdoctoral scholarships of the Université du Québec à Rimouski entitle the searchers who recently obtained a Ph.D. to increase their experience in a specialized research field by participating to the works of a unit or a UQAR group of searchers performing inside the following departments: Biology and Health Sciences, Economics and Management, Literature, Mathematics and Computing, Oceanography, Education, Humanities, and Religious Studies and Ethics.

UQAR is part of the UQ network. This institution offers at the graduate level many teaching programs in about all above mentioned departments, postgraduate programs in maritime affairs, regional development, education, ethics, project management, maritime resources management, literature, and in oceanography. The university also offers a Ph.D. in oceanography and in education.

Applicants from any country are admissible.
Applicants must have obtained their Ph.D. degree between July 1st 1989 and January 1st 1992. Ensuring the first year some scholarships may be renewed for a second year.

The research stage may begin at any moment of the year between September 1st 1991 and August 31st 1992 and obligatorily after the scholar has satisfied to the requirements of his Ph.D. program. Excluding the usual one month vacation, the scholars must be engaged exclusively on the works they agreed to on their arrival.

The scholar receives 25,000 $ for a full time year studies.

Modality of the request and the latest date
For requesting a postdoctoral scholarship, it is obligatory to present at UQAR the request form duly completed with the required statements as stipulated.

The University must receive the requests at the latest April 5th 1991.

To obtain the request form, the appropriate documentation or any other information about this concours, we invite you to write to:

Monsieur Pierre Couture, D.Sc.
Doyen des études avancées et de la recherche
Université du Québec à Rimouski
300, allée des Ursulines
Rimouski (Québec) G6L 3A1
Télécphone: (418) 724-1540

Université du Québec à Rimouski
XOMA Corporation, a leader in the development of targeted protein therapeutics, has an immediate opening for a Ph.D. level Physiologist or Pharmacologist. The successful candidate will design, conduct and interpret studies with new products in development for the treatment of septic shock.

Candidates should have a Ph.D. in Physiology, Pharmacology or related discipline with 1-3 years of post-doctoral training. Background in animal modeling, hemodynamics, cardiovascular regulatory mechanism, and/or inflammation, as well as computer use and technical supervision, are desirable.

We offer competitive salaries and benefits, plus plenty of room for growth. Please send your resume with salary history to: XOMA Corporation, Attn: Technical Recruiter, 2910 7th Street, Berkeley, CA 94710. EOE.
Pilot Plant 
Operations Manager 
Protein Purification

An internationally recognized research facility has a rewarding and challenging career opportunity for a qualified individual to lead the operations of a small, fast-paced group engaged in the purification of proteins for therapeutic use.

This position requires a knowledgeable professional with an MS or Ph.D. in Biochemistry or allied fields, and 5 years experience in protein purification. Knowledge of column chromatography, GMPs, aseptic filling and lyophilization will be essential.

In addition to managing the day-to-day operations of the R&D pilot plant under GMPs, you will be responsible for directing the activities of employees in R&D, as well as scale up of purification of plasma protein of clinical interests. You will also design and execute experiments, produce small lots of proteins and process experimental data.

We offer an excellent salary and an outstanding benefit package including medical/dental, tuition reimbursement and liberal vacation. If you meet the qualifications above, submit resume, which must include salary history/requirements, to: Manager of Human Resources, The New York Blood Center, 150 Amsterdam Ave, New York, NY 10023. Equal opportunity employer M/F/H/V.

Lindsey F. Kimball 
Research Institute
A Division of the New York Blood Center
Where concern for the community comes first.

RESEARCH OPPORTUNITIES IN 
BIOTECHNOLOGY

The Department of Biotechnology research at Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities, and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

Project Leader, Tissue Specific Expression - Ph.D. or equivalent in the area of molecular biology. The successful candidate will have three to five years experience in construction and screening of genomic and cDNA libraries and/or subtractive hybridization methods for the isolation and characterization of plant genes and regulatory regions. Direct experience in maize is preferable. The position will involve both direct laboratory research and supervisory responsibilities.

Lab Coordinator, Vector Construction - M.S. Degree in molecular biology or equivalent with five years direct experience in gene expression. The successful candidate will be responsible for designing and constructing plasmids for proper expression in plants. This position will involve both direct laboratory research and supervisory responsibilities.

Applications received by March 10, 1991 will be assured of consideration. However, applications will be considered until positions are filled. Pioneer Hi-Bred International is an Equal Opportunity/Affirmative Action Employer. Send resume including the names of three references and the position for which you are applying to:

Pioneer Hi-Bred International, Inc. 
Plant Breeding Division 
Attn: Lisa Hall 
7300 N.W. 62nd Avenue • P.O. Box 38 
Johnston, Iowa 50131

WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. The WAF is specifically interested in supporting:

A) short-term, in-country training for clinicians, allied health professionals and technicians;
B) fellowships to support training for national experts;
C) development and testing of new concepts and demonstrations for preventing the spread of HIV; and
D) highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infections and AIDS.

The limit of any single funding request to the Foundation is $200,000.

Application procedures:

Concept letters and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is April 1.

Concept letters, full applications and inquiries concerning the programs of the World AIDS Foundation should be directed to either:

World AIDS Foundation 
Assistant Secretary for Health 
c/o Director, Fogarty International Center 
National Institutes of Health 
Building 31, Room B2C39 
9000 Rockville Pike 
Bethesda, Maryland 20892 
U.S.A.

or

World AIDS Foundation 
c/o Director 
Institut Pasteur 
28 rue du Docteur Roux 
75724 Paris, Cedex 15 
FRANCE
POSTDOCTORAL POSITION

The Dana-Farber Cancer Institute seeks to fill research positions in, or related to, the study of the human T-cell receptor. Applicants must have a strong background in regulatory T-cell products to regulate the immune response. Joint appointment to be held in an appropriate department of Harvard Medical School. Send curriculum vitae and three references to: Dr. Harvey Cantor, Laboratory of Immunopathology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115.

POSTDOCTORAL POSITIONS, DEPARTMENT OF MICROBIOLOGY. Thomas Jefferson University has several full-time postdoctoral positions beginning this Spring to study mammalian development. Project involves classical genetic and molecular biological analyses. Send curriculum vitae, and the names, addresses and telephone numbers of three references to: Dr. Linda D. Siracusa, Department of Microbiology and Immunology, Thomas Jefferson University, Rm. 344 Jefferson, Alumni Hall, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL TRAINING POSITIONS IN RESEARCH OF THE NEUROBIOLOGY OF AGING UNIV. OF CALIFORNIA, IRVINE

The University of California, Irvine, anticipates filling several postdoctoral NIH training grant research positions in the area of successful aging and age-related dementias, particularly Alzheimer's disease, by 1 August 1993 and 1 August 1994. Salary is commensurate with a wide variety of research areas, including synaptic plasticity, neurotoxic factors, amyloid precursor protein, protease and proteinase inhibitor regulation, and excitatory amino acid receptors or magnetic resonance imaging. Participating faculty include: Carl Cram, Ph.D.; Ralph Bradshaw, Ph.D.; Richard Chamberlain, Ph.D.; Ben Choi, M.D.; Dennis Cunningham, Ph.D.; James Falcon, Ph.D.; Charles Glabe, Ph.D.; Edward Jones, M.D., Ph.D.; Mary-Louise Kean, Ph.D.; Michael Leos, Ph.D.; Ira Lott, M.D.; John Marsh, Ph.D.; James McLaugh, Ph.D.; Orhan Nalcioğlu, M.D.; Rachael Neve, Ph.D.; Arnold Starr, M.D.; and Stanley van den Noort, M.D.

Salaries for training positions are commensurate with education and experience. To be considered, applicants must possess a Ph.D. (proof of final degree required) and must either have a permanent resident of the United States. Address inquiries and/or curriculum vitae to: Carl W. Cotman, Ph.D. Director Training Grant Department of Psychobiology University of California Irvine CA 92717

POSTDOCTORAL FELLOWSHIP. Position is available to join research group using in vivo microdialysis and cytchemistry to study the neurochemistry of pain modulatory systems in the brainstem and spinal cord. Candidates should have experience with HPLC and/or microdialysis. Salary is in accord with NIH stipends. Applications, including curriculum vitae, description of current research, and names of three referees, should be submitted to: A. J. Basbaum, Keck Center for Integrative Neuroscience, University of California, San Francisco, San Francisco, CA 94143. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN SPEECH MOTOR CONTROL. The Suttering Center Speech Motor Control Laboratory, Department of Neurology, Baylor College of Medicine/The Methodist Hospital has the above position available for someone interested in the dynamics of the speech motor control system. This person should have a Ph.D. in bioengineering with interests in motor control, speech processing and/or a background in speech science with an emphasis on the acoustic processing of the speech signal, and an interest in the development of speech control. Send curriculum vitae and the names of three references we may contact to: H. B. Nudelman, Ph.D., Suttering Center, Department of Neurology, 6550 S. Fwy., L110, Houston, TX 77030. Baylor is an Equal Opportunity Employer.

INTERNATIONAL POSTDOCTORAL FELLOWSHIP

The Hayashibara Foundation, a nonprofit-making organization within the Hayashibara Group, announces a fellowship program. Fellowship will be taken at the Fujisaki Cell Center which is devoted to basic and applied research related to the problems in human cancer. The fellowship is normally made for 1 year and is renewable for up to 5 years. The fellowship will be expected to be funded through the foundation's initiative: 10 million of the awards. No fixed deadline for application is set throughout the year. The awards are for high-quality research work in one of the three categories described below:

- Fundamental leukemia-lymphoma research
- Cytokine-lymphokine research
- Hematopoietic cell

Qualified person who is holding a Ph.D., M.D., or equivalent qualifications should make inquiry for additional information and application forms from: Jun Fujisaki, Fujisaki, Okayama 702, Japan.

POSTDOCTORAL RESEARCH ASSOCIATE

Available for a recent Ph.D. to study the regulation of dihydrolipoamide dehydrogenases involved in the detoxification of physiological aryl aldehydes present in recombinant DNA techniques required. Career advancement possible. Send curriculum vitae and names of three references to: Dr. Trevor M. Penning, Department of Pharmacology, University of Rochester School of Medicine, Philadelphia, PA 19104-5084.

BIOCHEMISTRY. University of North Texas invites applications for a POSTDOCTORAL RESEARCH ASSOCIATE, available immediately to work on cloning and expression of growth factors. Experience with molecular biology and/or immunology is desirable. Please send curriculum vitae and two letters of reference to: Personnel Office, University of North Texas, P.O. Box 3497, Denton, TX 76203. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE IN MEDICAL/ VETERINARY ENTOMOLOGY.

The University of North Texas is seeking an entomologist to study the role(s) of predation in community structure, and to expand existing research on insect immunity. The position requires a Ph.D. in entomology or a related field, and is 2 years old within the last 5 years. Salary is negotiable. Send curriculum vitae and three references to: Dr. Larry Fallon, Graduate Program Chairman, Physics and Astronomy Department, University of North Texas, Denton, TX 76203. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL

A position is currently available to study genotoxic stress responses in mammalian cell. Emphasis will be given to a recently isolated group of novel DNA-damage-inducible genes that play a role(s) in negative growth control. Studies will also focus on the regulation of HIV-1 expression by genotoxic stress and on how HIV-1 regulatory features shared with cellular stress-response genes. Experience in molecular biology and/or protein biochemistry, such as the purification and characterization of DNA-binding proteins, is desirable. Salary for a postdoctoral fellow (more than 3 years of experience) for research positions (postdoctoral experience) is commensurate with experience. Send curriculum vitae and names of three references to: Dr. A. J. Fornace, Laboratory of Molecular Biology, National Cancer Institute, Building 87, Room 5C09, National Institutes of Health, Bethesda, MD 20892. email: fornace@fcrvl.nclrfcr.gov.

An Equal Opportunity/Affirmative Action Employer.

FREE PRODUCT INFORMATION SERVICE

Send a letter stating the specifics about your new laboratory and Science will put you in touch with the vendor whose product you specify. Write to: SCIENCE New Lab Service Department, 1515 Broadway, New York, NY 10036.

POSTDOCTORAL RESEARCH ASSOCIATE


POSTDOCTORAL RESEARCH ASSOCIATE

Study the physiology and genetics of hydrogen metabolism in legume symbioses. Candidates should have experience in microbiology, molecular biology, and/or plant physiology. Salary: $31,100. Please send a résumé and names of three references to: Dr. Peter van Berkel, Soybean and Alfalfa Research Laboratory, USDA-ARS, Building 911, HH-19, Belleville Agricultural Research Center, Belvidere, MD 20705. ARS is an Equal Opportunity Employer.

OPTICAL PHYSICIST

The Laboratory for Laser Energetics at the University of Rochester is seeking an optical physicist to work within the Optics and Imaging Sciences Group in support of its Laser Fusion program. The successful candidate will be involved in the modeling of laser beam propagation, focusing, and imaging. Extensive use of optical modeling codes is required for this position. The individual will concept development, analytical evaluation and numerical evaluation of optical systems using geometrical, physical, and nonlinear optics computer codes. A background in detailed dimensional tolerancing, optical fabrication specification, and experimental prototyping of laser-based optical systems. Experience in experimental optics including setup, data-acquisition, alignment, and design is required. Additionally, computer experience including code utilization on CRAY, SUN, VAX, and personal computers is essential. Candidates should have a masters degree in optics or optical engineering and have at least 2 years of experience in mathematical modeling. Starting salary is $35,000 per year. Application deadline 29 March 1991; send résumés to: Search Committee, Optics and Imaging Science Group, Laboratory for Laser Energetics, 260 East River Road, Rochester, NY 14623-3090. Equal Opportunity Employer, M/F.

The Life Sciences Division of the Los Alamos National Laboratory is inviting applications for a STAFF MEM- BER position in the Biological Sciences Group. The successful applicant will be expected to conduct an independent research program in biomolecular structure and function. Experience in the design, construction, and use of protein folding and protein-DNA interactions and to obtain financial support for that research. We are seeking someone to expand existing x-ray facilities to establish the capability for protein crystallography and to extend molecular modeling capabilities to address problems in biomolecular structure and function. The person will be expected to collaborate with existing staff in research on biomolecular structure and function and to utilize the laboratory's unique X-ray and neutron sources for crystallization and scattering measurements as well as unique computing facilities. The person would be encouraged to participate in the planning and execution of the expansion of the current structural biology program at Los Alamos. The successful applicant should have an ability, demonstrated by both research accomplishments and publications, to record, and independently pursue research programs in biomolecular structure and function. The applicant's technical background should include demonstrated experience in protein crystallography and modeling and x-ray, neutron scattering. The applicant should have effective oral and written communication skills and the ability to collaborate with other investigators in a multidisciplinary environment. You should have a Ph.D. degree in a relevant life sciences discipline. To formally apply for this position, you must reference Job Number L-1253B. On your resume candidates should forward a résumé to: Molly Birely (MS P280), Personnel Service Division, Los Alamos National Laboratory, P.O. Box 1663, Los Alamos, NM 87545. An Affirmative Action/Equal Opportunity Employer. Must be able to obtain a Department of Energy security clearance.
Biogen has reported its second consecutive profitable year with significant increases in net income and total revenues. Our efforts to become a fully integrated biopharmaceutical company are right on schedule with products in basic research and development, human clinical trials and actual sales in many countries. Our Cambridge, MA location, adjacent to MIT, is at the heart of the country’s biotechnology industry.

Process Scientist — Cell Biology
You will be responsible for research leading to the development and improvement of mammalian cell lines used for production of human therapeutic proteins. This position will also be integral part of a team investigating methods for optimization of cell culture methods including culture media development and will provide support to the Process Development groups through maintenance of bioassays. The ideal candidate will have a PhD in Cellular Biology or Immunology or related field with 3-5+ years of postdoctoral experience. You must have working knowledge of molecular biology of recombinant mammalian cells, cell culture methods, secretory and post-translational pathways, and relevant cell factors. You must be a team player willing to collaborate across departmental lines and across disciplines.

Quality Control Manager — Biotechnology
As our QC Department moves with the company toward product and establishment licensure, significant challenges and opportunities await this QC professional. You will assume responsibility for the operation of our QC chemistry laboratory. Specifically, you’ll schedule lab activities including raw material, in-process, bulk and final dosage chemistry testing, special projects and stability evaluations, coordinate HPLC, DMP, etc., characterization testing, and review production records. A BS/MS in Chemistry or Biochemistry and at least 3-5 years of pharmaceutical environment experience are essential. Familiarity with GMPs, validation and documentation, as well as proven supervisory experience are a must. Strong communication and interpersonal skills are required.

Our compensation and benefits package is one of the best in the industry, and is designed to attract and retain the finest talent available. Our Relocation Assistance is only one example of the benefits you can look forward to at Biogen.

Please send your resume to Biogen, Inc., Ref. SMPS222, 14 Cambridge Center, Cambridge, MA 02142. Biogen is an equal opportunity employer.

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Clinical Associate or Senior Staff Fellow

The Laboratory of Clinical Studies, National Institute on Alcohol Abuse and Alcoholism, Public Health Service, invites applications for a position to study alcoholism and its complications. Unique opportunity to become a member of a multi-disciplinary team working in an 10-bed research ward and outpatient clinic at the National Institutes of Health Clinical Center, Bethesda, Maryland. State-of-the-art equipment and experienced technical support available. The salary range is $40,000 to $52,000 per annum commensurate with qualifications. Interested candidates must be board certified or eligible interns who are U.S. citizens or permanent residents. Position information and qualification requirements may be obtained by contacting:

Ted George, M.D.
National Institute on Alcohol Abuse and Alcoholism
Laboratory of Clinical Studies
Building 10, Room 3B-19
9000 Rockville Pike
Bethesda, Maryland 20892
Telephone Number 301-496-9705

Submit Curriculum Vitae and names of three references to Dr. George. The position is available now.

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**STRUCTURAL BIOLOGY**

Two opportunities exist in the Structural Biology Department of Monsanto Corporate Research Laboratories to join a vigorous team of physical chemists and structural biologists closely allied with a fully integrated, multidisciplinary effort in discovery research. Active projects that focus on pharmaceutical and agricultural applications are currently underway.

Qualifications include a Ph.D. (postdoctoral experience would be welcome) and expertise in any of the following:

- Protein NMR Spectroscopy
- Protein Crystalslography
- Computer Chemistry

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**POSITIONS OPEN**

**CHEMIST, GS-12 or GS-13, ($37,294 to $48,481 or $44,348 to $57,650):** The U.S. Environmental Protection Agency (EPA) Environmental Monitoring System Laboratory, Las Vegas, Nevada is seeking an experienced masters or Ph.D. level individual in the area of analytical methods development for environmental contaminants and bacteria. Individual must have recent lab or industry experience. Individual should have an interest in the development of immunoassays and the integration of immunochromography with other analytical methods. Experience in developing, formatting, validating and use of immunoassay for small molecules as well as chemical synthesis is desirable. Individual would perform laboratory and union, and report writing. The selected candidate would work under the direction of the immunosassay technical program manager and be responsible for individual projects. The EMSS-LV has ongoing projects in both immunosassay development and evaluations. EPA is an Equal Opportunity Employer. Applicants must be a U.S. Citizen. All inquiries should be sent to: U.S. EPA, Human Resources Office, P.O. Box 98516, Las Vegas, NV 89193–8516 postmarked by 22 March 1991.

**RESEARCH IN FOOD.** Establish and direct a research group to develop inhibitors of the c-myc oncoprotein. Research related to interaction of nuclear oncoproteins; transformation, DNA-binding, and transcript assays; and analysis of clinical research. Synthesis and characterization of oligonucleotides and analysis of transcriptional regulatory mechanisms. Study basis of cancer and biochemical reactions. R&D pharmacological agents with therapeutic application for treatment of cancer in humans. Requires Ph.D. genetics or microbiology with clinical degree of experience and at least 1 year of postdoctoral experience in genetics and molecular biology with state-of-the-art background in c-myc oncoprotein, cellular transformation, DNA-binding, and transcript assays. Must have research in site-directed mutagenesis, in vitro protein translation, and statistical analysis of clinical research data. Ability to perform molecular biology techniques. Forty hours per week; $4396.00 per month; send résumé or curriculum vitae to: Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123, IO #434425.

The Southeastern Forest Experiment Station (SEFES), U.S. Department of Agriculture (USDA) Forest Service, is recruiting for two positions: (i) RESEARCH PLANT ECOLOGIST OR BOTANIST position offered at Clemson University, Clemson, South Carolina, will be responsible for planning and performing independent research to assess responses of plant ecosystems to changes associated with timber harvesting and other practices. Special emphasis will be given to development, implementation, and evaluation of management strategies to maintain and enhance plant species within a multiple-use framework. Starting salary for this position will range from $37,294 to $48,481 depending upon applicant. (ii) RESEARCH FISHERIES BIOLOGIST position offered at Virginia Polytechnic Institute in Blacksburg, Virginia, will be responsible for planning and performing independent research to assess the responses of coldwater fish to changes in habitat resulting from forest management, road construction, and other human-caused disturbances. Salary range for this position is $44,348 to $57,650 depending upon qualifications of selected applicant.

Qualified individuals should send a one-page résumé to: Nathan Presley, Early Alert Notice 91-39, SEFES, P.O. Box 2680, Asheville, NC 28802. Telephone: 704-257-4380. Applications will be accepted through 15 March 1991.

**RESEARCH SCIENTIST:** Molecular yeast geneti- 
cist, Assistant Specialist I, position available for inte-
grated research project concerned with genes associated with heavy metal resistance, metabolic recombina-
tion, and aneuploidy mechanisms in yeast. The suc-
cessful candidate will develop systems from yeast, 
that of yeast, chosen to address the following issues: 
(a) a Ph.D., degree in genecology, molecular biology, 
with a year of postdoctoral experience in molecular 
genetics and expertise in yeast genetics are essential. 
Salary: $31,000 per year with benefits. Send the 

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**ENZYMOLIST/BIOCHEMIST**

The Virology group within the Department of Virus and Cell Biology has an opening for an Enzymologist/Biochemist. A Ph.D. and relevant, original postdoctoral research experience are required. The position will involve mechanistic and structural analysis of enzymes and proteins critical for the replication, infectivity or pathogenicity of human viruses. The identification of potential drug targets and the development of approaches to inhibition of the function of those targets is a central part of our efforts.

Strong training in chemistry or biochemistry is desired, while experience in virology is not necessary. Experience in subcloning and mutagenesis is not required, but certainly useful.

Excellent salary and benefit programs accompany this position at our West Point Laboratories 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to: Personnel Manager, Ad #8-5, Research Personnel, WP42-2, MERCK SHARP & DOHME RESEARCH LABORATORIES, West Point, PA 19486.

SCIENCE, VOL. 250
TEMPORARY ASSIGNMENTS FOR RESEARCH SCIENTISTS UNDER THE INTERGOVERNMENTAL PERSONNEL ACT

ERL-Corvallis is seeking candidates for temporary assignments at the laboratory for periods up to 2 years as research scientists or project leaders. These assignments would be under the Intergovernmental Personnel Act, for full-time, part-time or intermittent periods. Research scientists who are full-time employees of public or private institutions of higher education, state or local governments, Indian tribal governments, and certain other nonprofit organizations are eligible. The following specific assignments are currently being considered.

- **WETLANDS ECOLOGIST**: senior scientist established in the scientific community to develop regional scale indicators for monitoring wetlands condition.
- **FOREST ECOLOGIST**: senior scientist established in the scientific community to develop regional scale indicators for monitoring the condition of forest ecosystems.
- **ECOLOGIST**: to assist development of a research program to assess EPA's role in measuring and protecting biodiversity in managed ecosystems.
- **TERRRESTRIAL ECOLOGIST**: senior scientist to lead a new research project on ecological restoration.
- **MICROBIAL ECOLOGIST**: senior scientist to lead a project assessing the risk from genetically engineered organisms released into the environment.
- **MAMMALIAN OR ANIMAL ECOLOGIST**: to lead a project evaluating the effects of pesticides on small mammal populations, using a newly developed 1/4 acre field mesocosm facility.
- **PLANT ECOLOGIST**: to develop a project for determining ecological effects at contaminated land sites.
- **ECOLOGICAL ECONOMIST**: to develop a project for valuing ecological resources as a basis for ecological risk assessment.
- **LANDSCAPE ECOLOGIST**: scientist with skills in land management and decision modeling to lead a project on optimizing regional land use.
- **PLANT ECOPHYSIOLOGIST**: scientist with experience on effects of airborne chemicals on natural and agricultural vegetation.
- **PHYSICAL SCIENTIST**: scientist with expertise in hydrology, climatology, or meteorology, to lead a project on quantifying vegetation distribution, surface energy balance, and vegetation response to climate change. Strong skills needed in GIS, numerical modeling, and raster data management.

Candidates should submit a résumé and letter of interest to: Robert T. Lackey, Deputy Laboratory Director, U.S. Environmental Protection Agency, 200 S.W. 35th Street, Corvallis, OR 97333, or call Dr. Lackey at 503-757-4601.

**RESEARCH POSITIONS IN EXPERIMENTAL CARDIOVASCULAR PATHOLOGY**. The Department of Pathology, University of Alabama at Birmingham (UAB), is seeking postdoctoral and faculty level scientists for basic research in cardiovascular disease mechanisms. Postdoctoral appointees will work within established funded research projects. Experience in cellular or molecular biology is desirable. Reprints and curriculum vitae should be mailed to: Jay McDonald, M.D., Chairman, Department of Pathology, UAB Station, University of Alabama at Birmingham, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT RESEARCH MOLECULAR IMMUNOLOGIST**. The Liver Transplant Division, Department of Surgery, invites applications for an individual to conduct research in the molecular and immunological mechanisms of allograft rejection. The appointee will use molecular approaches to monitor transplant patients as well as establish an experimental transplant model in SCID-Hu mice. Ph.D. and postdoctoral experience, and a strong interest in molecular immunology, whole organ transplantation, and SCID-Hu mouse are required. Send curriculum vitae, research plan, and names of three references to: Nancy A.丸, M.D., Ph.D., Department of Surgery, Box 0780, University of California, San Francisco, CA 94143. An Equal Opportunity Employer.

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POSITIONS OPEN

DESIGN PHYSICIST of metal halide lamps for manufacturer of lighting products in Northeastern Ohio to design, develop, test, and debug new high intensity metal halide lamps to satisfy performance objectives using knowledge of light source chemistry, the discharge theory, and plasma theory; assist quality control function in the solving of production problems and analysis of light test data. Experience: light in vacuum and lamp distribution to meet illuminating objectives; conduct experimental tests to determine chemical components, weight, and wall-loading of arc tubes, electrodes, dimensions, and filling gas pressure; measure electrical and photometric characteristics of lamps; modify existing lamp designs to meet performance objectives.

Requirements for the job position are: M.S. degree in physics or related field, or B.S. degree and must hold education courses in the following theories (i) light source chemistry; (ii) gas discharge theory; (iii) plasma theory; and the following instrumentation (i) photometry for sphere; (ii) vacuum system; (iii) oscilloscope; (iv) spectrometer; and (v) ionization gauge and at least one university course in the following areas: cathode electronics, experimental spectroscopy, chemistry of light sources, gas discharge light resources, experiments in gas discharge and gas discharge physics. Forty hours per week, $330 per month, Monday to Friday, $32,000 per year. Must have proof of legal authority to work permanently in the United States. Send resume in duplicate (no calls) to: J.O. 17077 Employment Services, P.O. Box 1618, Columbus, OH 43216.

MEETINGS

STROMAL REGULATION OF HEMATOPOIESIS
21–22 JUNE 1991/BETHESDA, MARYLAND

An NIH symposium to address the role of bone marrow stromal cells, the extracellular matrix, and the hematopoietic cell microenvironment in the regulation of cellular differentiation and proliferation. Keynote address and symposium summary by Nobel laureate E. Donnall Thomas (M.D.). Registration fee: accepted (until 1 May 1991) for poster presentation. For registration, contact: Prospect Associates, Conference Department, 301-466-MEET. For information, contact: A. Levine, NHBRL, at 301-496-9911 or D. Badman, NIDDK, at 301-496-7458.

INTERNATIONAL CONGRESS OF PYTOLOGY
25–29 OCTOBER 1991 in Seoul, Korea. Sponsors: Aloe Research Foundation U.S.A. and Pharmaceutical Society of Korea. The congress will be a forum for discussions and interactions between individuals from academia, industry, government, and business. Basic and clinical research studies of aloe, kambo and other plant medicinal substances as modifiers of nutrition, pharmacology, immunology, inflammation, anti-microbial, and tumor activities are to be presented. Invited presentations plus free communication platforms and poster sessions are planned. Requests for abstracts (due July 1991) and congress information: Dr. Wendell D. Winters, Congress Chairman, Department of Microbiology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284–7788. Telephone: 512-567-3930 or FAX: 512-567-6612.

SECOND INTERNATIONAL SYMPOSIUM ON NEUROTENSIN
6 TO 9 JULY 1991
THE BREAKERS HOTEL
PALM BEACH, FLORIDA

An international meeting, to bring together researchers and clinicians interested in the endogenous neuropeptide, neurotensin, to be held at the Breakers Hotel in Palm Beach, Florida. The meeting will consist of invited symposia, contributed papers and poster presentations. Registration fee is $250. For further information including meeting registration, hotel information, and abstract forms contact: Patrick Kirngham, Ph.D, University of Washington, Seattle, WA 98104. (206) 543-6560. Deadline to submit abstracts for poster presentation is 1 May 1991.

ANNOUNCEMENTS

THE DOE HUMAN GENOME PROGRAM
ANNOUNCEMENT OF SPECIAL RESEARCH GRANTS

In support of the Human Genome Program, the U.S. Department of Energy (DOE) announces its 1991 Special Research Grants Program Notice 9 1-7 and 91-8, Health Effects Research. Several research goals were established during the project planning workshops and conferences for: (1) Development of innovative technologies and resources necessary for the physical mapping of human chromosomes; (2) Development of cDNA libraries, rapid isolation of cDNA libraires, and rapid identification of candidate STS sites (STS) and control of the added value of representing expressed loci (see 16 Nov 1990 Science, page 913). Appropriate subtopics include improved production of cDNA libraries, normalization of cDNA libraries, rapid identification of cDNAs to chromosomes and subchromosomal regions so that optimally spaced cDNAs for STS design, etc. (ii) Durham, NC 27710. For information contact: Dr. Lawrence H. Lasch, Graduate Admissions Director, Department of Pharmacology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.

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MARKETPLACE

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ANNOUNCEMENTS

FOR RESEARCH PROPOSALS

Preproposals, in the form of one-page abstracts, are being solicited from scientists interested in devising cell and tissue culture test batteries to screen potential neurotoxic agents. Efforts are focused on developing and validating in vitro models that are cost-effective, and that use highly defined methodologies. Selected applicants will be invited to participate in a workshop sponsored by The Johns Hopkins School of Public Health to be held in April 1991, and then to submit a full proposal for a 3-year grant ($30,000 per year, total costs). Awards will be made, and will start in February 1992. Send abstracts by 21 March 1991 to: Joanne Zurbur, Ph.D., The Johns Hopkins School of Public Health, 615 North Wolfe Street, Room 7023, Baltimore, MD 21205. Telephone: 301-955-3343. FAX: 301-955-0116.

COURSES AND TRAINING

GRADUATE PROGRAM IN PHARMACOLOGY

The Department of Pharmacology at Wayne State University School of Medicine currently has 18 faculty with interests covering all traditional areas of pharmacology, toxicology, and cancer biology. Recent appoint- ments have expanded research in the areas of neuroscience and molecular biology. The Ph.D. program offers broad-based training to individuals who wish to pursue careers in modern pharmacology in academic, industrial, or governmental institutions. The primary research areas of the department are central nervous system, psychology, and behavioral pharmacology, cancer biology, cardiovascular pharmacology, drug metabolism and environmental toxicology, neuropharmacology, and renal/urinary tract pharmacology.

The program offers innovative basic research in all of the above areas. Qualified individuals who will receive competitive stipends and full tuition support. For further information contact: Dr. Lawrence H. Lasch, Graduate Admissions Director, Department of Pharmacology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.

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