POSITIONS WANTED

Electron Microscopist. M.S. in cell biology. Extensive experience in neuroscience and protistological research; diagnostic EM experience desired; knowledge of immunocytochemistry, image analysis, ARG. U.S. west, Sunbelt, or English-speaking laboratory situation worldwide. Box 67, SCIENCE.

Instrument Maker with 20 years of experience in high energy physics and medical research field seeks position with instrument maker. Widely understood range of media with expertise in design invention through to finished product. Box 71, SCIENCE.

Immunologist, Ph.D. Research and development scientist with extensive background in hybridomas, monoclonal antibodies, targeted chemotherapy in cancer, and large-scale tissue culture, seeks group leader/project director position in academic/industrial laboratory. Outstanding worker with excellent credentials. Box 74, SCIENCE.

M.S. Biochemistry and Organic Chemistry and over 18 years of academic and industrial research experience in production and characterization of monoclonal and polyclonal antibodies, RIA and ELISA analysis of proteins and hapten, enzymology, pharmacology, analytical methods development (Tel. 215-968-0483 after 6 p.m.) EST. Box 75, SCIENCE.

Ophthalmic Research: Director of established major laboratory would like to relocate with program, staff, grants, and equipment. Box 76, SCIENCE.

Ph.D. Protein Chemistry. Isolation and purification of proteins. HPLC separation of peptides and proteins, electrophoresis. Structure-function studies, spectroscopic characterization by UV-visible, CD and ES. Enzymatic digestion, chemical modifications, protein sequencing, peptide mapping, model peptide synthesis. Good at instruments troubleshooting. Box 77, SCIENCE.

Physician/Scientific Writer-Editor offering comprehensive scientific writing, review, support publications, and funding efforts of a medical school or other biomedical research institution. Program includes expert individual, manuscript consultation and "Effective Scientific Writing in Biomedicine" seminars. This program can also be integrated into an existing scientific writing department. Box 69, SCIENCE.

Scientific Data Analysis and Presentation. Semi-retired Ph.D. (physiology), with over 30 years of experience developing and programming both routine and novel analytical methods. Lower rates for interesting projects. Box 65, SCIENCE.

Virologist/Immunologist/Hematologist, Ph.D. 1975. Research experience: analysis of viral oncogenes, hemopoietic cell culture and growth factors, analysis immune responses to tumors and viruses. Good publication and grant funding record as independent investigator. Good communicator. Seek industrial position in East, Mid-Atlantic or Midwest area. Box 78, SCIENCE.

POSITIONS OPEN

AGRICULTURAL/ENVIRONMENTAL SCIENTISTS

Dynamac Corporation has immediate job needs throughout the United States for experienced junior and senior level scientists (Ph.D., M.S., B.S.) with backgrounds in one or more of the following areas:

- Pesticide Science
- Pest Management
- Environment Science
- Soil Science

The successful applicant will be required to critically review and analyze published and unpublished pesticide data for their scientific validity and adherence to meeting regulatory data requirements for pesticide registration. They will also prepare written reports based on their analysis. Strong writing skills and computer background are absolutely essential. Knowledge of pesticide and pesticide regulation/registration is especially helpful. Dynamac Corporation offers competitive salaries and a full paid employee benefits package. To apply, please send resume in confidence to:

Dynamac Corporation
1140 Riverbend Pike
Rockville, MD 20852

Attention: Personnel Department

ASSISTANT DIRECTOR

The Ohio State Biotechnology Center seeks an energetic person with a graduate level background in biological, chemical, or related areas relevant to biotechnology and research experience. Responsibilities include assistance in the planning and construction of physical facilities including renovation of laboratories and support facilities for plant and animal growth, coordination of research grant preparation, liaison with industries, preparation of brochures, coordination of workshops and conferences, and preparation of personnel. Salary negotiable. Please send applications to: Dr. P. E. Kolattukudy, Director, Ohio State Biotechnology Center, 206 Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210. Equal Opportunity/Affirmative Action Employer.

OHIO UNIVERSITY BELMONT CAMPUSS VACANT POSITION

ASSISTANT PROFESSOR OF BIOLOGY. Beginning salary range: $23,000 to $27,000. Position description: A full-time tenure-track position starting fall quarter 1988. Primary responsibilities include teaching of general zoology and preprofessional courses, and development of a new course on the Los Alamos Meson Physics Facility (LAMPP). This program includes an internship at the Los Alamos National Laboratory. Qualifications: Ph.D. and strong commitments to teaching required. Deadline for applications: 25 May 1988. Application materials: To be considered, applicants must submit a letter of application, transcripts, and three letters of recommendation. To apply:

Chairperson
Biology Search Committee
Ohio University Belmont
45425 National Road
St. Clairsville, OH 43950

Ohio University Belmont is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF CALIFORNIA, IRVINE

NEUTRINO PHYSICS GROUP ASSISTANT RESEARCH PHYSICIST

The University of Physics, University of California, Irvine, is looking for an assistant research physicist to work on a program of neutrino physics at the Los Alamos Meson Physics Facility (LAMPP). This program includes an internship at the Los Alamos National Laboratory. Qualified applicants must: have a Ph.D. in experimental neutrino physics, and experience with the LAMPF Detector System. Send resume and bibliography to: Dr. Richard Allen, Department of Physics, University of California, Irvine, CA 92717. The University of California is an Affirmative Action/Equal Opportunity Employer.

MAY 1988 PERSONNEL PLACEMENT 935
ASSISTANT PROFESSOR, MOLECULAR PAR- ASITOLOGY. Tenure-track position available. Applicants must have a Ph.D. in molecular biology or parasitology, preferably with helminthology experience in molecular biology/parasitology, preferably with helmifty- gellates. Applicants must display evidence of research productivity and numerical and written communication skills. The successful candidate should have a Ph.D. in parasitology. The successful candidate will be expected to establish a self-contained independent research program. Letters of application together with curriculum vitae and the names of three references should be sent to: Dr. Philip A. D’Alessandro, Division of Tropical Medicine, New York State Department of Health, Columbia University, 630 West 168th Street, New York, NY 10032. Equal Opportunity Employer M/F.

The University of Hawaii seeks applicants for a tenure- track, 11-month position in nutritional sciences at the ASSISTANT PROFESSOR/RESEARCHER, level. Minimum qualifications are a Ph.D. in biochemistry or nutritional biochemistry. Postdoctoral and teaching experience, background in molecular biology, and computational skills are desirable. Responsibilities include 60% research and 40% teaching, including a graduate level laboratory course. Annual salary range: $25,670 to $54,932. Starting 1 January 1989. Closing date: 15 June 1988. Submit letter of application, curriculum vitae, original transcripts of academic record, and three letters of reference to: Professor R. S. Roberts, Chairperson, Department of Biochemistry and Molecular Biology, University of Hawaii, 1684 East-West Road, Honolulu, HI 96822. Affirmative Action Equal Opportunity Employer.

University of Health Sciences/The Chicago Medical School. The Department of Physiology and Biophysics invites applications for tenure-track positions at the rank of ASSISTANT OR ASSOCIATE PROFESSOR. Candidate must have a Ph.D. or M.D. degree. Strong research experience and teaching ability. Responsibilities will include teaching, research, and clinical service. Applicants with research interests in cellular or molecular biology are particularly encouraged to apply. The successful candidate will be expected to develop and maintain a strong independent research program and to be actively involved in teaching. Initial faculty appointments will range from Assistant Professor to Professor. Salary will be commensurate with qualifications and responsibilities. The closing date for applications is February 15, 1989. Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR GEOPHYSICAL FLUID DYNAMICS. The Graduate School of Oceanography at The University of Rhode Island invites applications for a tenure-track position in geophysical fluid dynamics at the assistant/associate professor level. The successful applicant is expected to pursue an active research program in theoretical, numerical, and/or laboratory studies of oceanic processes. Qualifications should include a Ph.D. in geophysical fluid dynamics or related field, postdoc- toral experience and a demonstrated record of strong independent research, and a strong interest in teaching and advising graduate students.

Our department is actively involved in diagnostic and prognostic studies of western boundary current, eddy transport processes in energetic and quiet ocean regions, equatorial oceans and atmosphere-ocean exchange. Opportunities exist for cooperative work in atmospheric transport processes and paleoclimatic studies. Starting date is 1 September 1988 or soon thereafter. Level of appointment will be commensurate with experi- ence. Interested applicants should send a copy of their curriculum vitae, the names of four references, and a summary of research interests by 15 June 1988, or until filled, to: Professor H. Thomas Rossby, Chairman, Search Committee, Assistant/Associate Professor, Geo- physical Fluid Dynamics, The University of Rhode Island, West Main Street, Kingston, RI 02881.

ASSISTANT OR ASSOCIATE PROFESSOR OF MEDICINE to assume major scientific responsibility for a molecular biology program. The candidate may be an M.D. or Ph.D. with interest and experience in molecular genetics of contractile proteins, signal transduction for membrane receptors. The candidate will be expected to establish own laboratory and interact closely with active ongoing laboratories working in biochemistry, cell biology, and cell biology of the cardiovascular system. Research is in a research-oriented Section of Cardiology. Please send inquiries, résumé, and the names of three references to: Morton F. Armando, M.D., Chief, Section of Cardiology, University of Chicago Hospitals, Box #423, 5841 South Mary- land, Chicago, IL 60637.

BIOCHEMISTRY/MOLECULAR BIOLOGY FACULTY POSITION. The Chemistry Department at Brigham Young University (BYU) invites applications for a full-time biochemistry faculty position. Applicants must have a Ph.D. in biochemistry or molecular biology. A background in chemistry and a proven record of productivity would be advantageous. The successful can- didate must establish a competitive, funded research program and teach at the undergraduate and graduate levels. Application deadline is 31 May 1988. Applicants should send curriculum vitae, a brief description of proposed research, and the names of several references to: Dr. Donald Robertson, Chairman, Search Committee, 659 WIDB, Brigham Young University, Provo, UT 84602. BYU is an Equal Opportunity Employer.

BIOLOGICAL AND MEDICAL RESEARCH SCIENTIST IMMUNOLOGY/HEMATOPOIESIS. Becton Dickinson Immunocytometry Systems, a lead- er in the development of instruments and reagents for cellular analysis, is seeking a research scientist to head the development of a large-scale cell selection system with both research and therapeutic applications. Duties include supervision of technical personnel, development of biochemistry, immunochemistry, bioengineers, biologists and hematologists to integrate their expertise to solve technical problems involved in obtaining large numbers of purified functional cells. Will directly super- vise a laboratory team of biologists conducting pilot laboratory trials. Must be able to develop appropriate tests to assure quality and safety in preparation for clinical evaluation. The candidate must possess a Ph.D. or M.D. degree, and at least two years experience with monoclonal antibody research ability in biotechnology, immunology and/or hematology. A working knowledge of immu- nochemistry and protein immobilization as well as experi- ence with monoclonal antibody technology will be required. Must have at least 2 years of project management experience in the field. Salary: $47,000 to $55,000 (depending on experience) Response must be postmarked no later than 13 June 1988. Interested candidates should send curriculum vitae, representative publications, a statement of research interests and management experience and the names of three references to: Beatrice Dickenson Im- munocytometry Systems, Human Resources Manager, P.O. Box 7375, Mountain View, CA 94039. An Equal Opportunity Employer.

CLINICAL CYTGENETICIST. Tenure-track position available in the Department of Cellular and Structural Biology for a clinical cyto- geneticist to develop an active and effective service to act as associate director of the Clinical Cytogenetics Labora- tory. Applicants should submit curriculum vitae and three references to: Charles M. Moore, Ph.D., Director, Clinical Cytogenetics Laboratory Department of Cellular and Structural Biology University of Texas Health Science Center at San Antonio 7703 Floyd Curl Drive San Antonio, TX 78284 The University of Texas is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMIST/NMR/ELECTRON TRANSFER. Postdoctoral positions are available to study heme protein model systems in redox complexes. Come to a productive research group situated in the scenic mountain southwest. Ph.D.'s in biochemistry and/or those with experience in modern organic chemistry, physical and bioorganic chemistry are invited to apply. Send curriculum vitae and three letters of reference to: Dr. Robert J. N. Sather, Department of Chemistry, University of New Mexico, Albuquerque, NM 87131. Salary range: $17,000 to $19,000. University of New Mexico is an Equal Employment Opportunity/Affirmative Action Employer.

BIOCHEMISTRY RESEARCH SPECIALIST—$18,000 per year. Immediate opening for biochemistry NASP staff. Applicants will be given to candidates whose research will be in protein purification, assay and characterization, and the molecular cloning of the protein. The position is located in the Department of Chemistry, University of New Mexico, Albuquerque, NM 87131. Salary range: $17,000 to $19,000. University of New Mexico is an Equal Employment Opportunity/Affirmative Action Employer.

BIOLOGICAL OCEANOGRAPHY SCRIPPS INSTITUTE OF OCEANOGRAPHY. Applications are invited for ASSISTANT, ASSO- CIATE, OR FULL PROFESSOR POSITIONS (tenure-track/tenured; rank, level and salary commensurate with qualifications) to supervise graduate students in the University of California at San Diego. We are especially interested in interdisciplinary oceanographer-biologists who have had training and experience as oceanographers; those who have a background in marine biology; and those who have a background in northern hemisphere physical oceanography.

The Scripps Institution of Oceanography is interested in candidates who have demonstrated excellence in independent research. Assistant professor candidates will be expected to show evidence of their potential through a publication record appropriate for their experience and letters of recommendation; associate or full professorial- level candidates must show evidence of a strong research record. Send letter of application including description of research experience and interests, list of publications, teaching experience and names of at least five references to: Chairman-B, Graduate Department A-008, Scripps Institution of Oceanography, University of Califor- nia, San Diego, La Jolla, CA 92039. Closing date for applications is 1 July 1988. An Equal Opportunity/Affirmative Action Employer.

CYTOGENETICIST. Winship Cancer Center of Emory University School of Medicine seeks applicants for the position of cytogeneticist. The position is that of an assistant professor, tenure-track, who has expertise in the area of human and animal cytogenetics. The individual also must be experienced in the use of transgenics and the technical manipulation of general cell line and embryonic cells. The incumbent will be expected to undertake a program of research in the area of fundamental molecular genetics and to provide interaction and consultation to all departments. Applicants should have a background in molecular biology. In addition, the incumbent will be expected to perform a modest number of cytogenetic tests for human genetics.

Applications should be submitted to: Dr. Kenneth W. Sell, Director, Winship Cancer Center, Emory University School of Medicine, Atlanta, GA 30322. Emory University School of Medicine is an Equal Opportunity Employer.

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BIOTECHNOLOGY SCIENTISTS

ICI, a world leader in the international agricultural industry, is continuing to expand its research capabilities in plant biotechnology in the U.S. This expansion is taking place principally through the Garst Seed Company, a major hybrid corn breeder, producer and marketer which forms part of the ICI Seeds Business. Our research headquarters are located near Ames, Iowa where laboratories are nearing completion in a new $10 million facility.

The following challenging positions are immediately available. All offer the opportunity to work as part of an international, interdisciplinary research team committed to applying biotechnology to crop improvement.

- **Tissue Culture:** Ph.D. and B.S./M.S. applicants ideally with practical experience in corn cell biology.
- **Molecular Genetics:** Ph.D. and B.S./M.S. applicants with theoretical and practical experience in the application of RFLP technology.
- **Quantitative Genetics:** Ph.D. applicants with mathematical and statistical skills and vision in the application of the biosciences to the study of polygenic traits.
- **Entomology:** B.S./M.S. applicants with familiarity in handling major corn pests in laboratory and field experimentation.

We offer competitive salaries and benefits together with significant prospects for long term career development.

Apply to: Sue Schuls, Garst Seed Company, P.O. Box 500, Slater, IA 50244. Reference #BS1. Deadline 5/31/88

GARST SEED COMPANY
Member of ICI Seeds

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Staff Fellowship Opportunities in Biomedical Research

DHHS/PHS/Food and Drug Administration
Center for Biologics Evaluation and Research

The Food and Drug Administration, Center for Biologics Evaluation and Research, is searching for outstanding candidates with Medical or Doctor of Philosophy/Science Degrees to participate in our Staff Fellowship Program. This program offers initial two-year fellowships in biomedical research. Fellowships are located in various laboratories within the Center which is responsible for regulating biological products such as vaccines and blood derivatives as well as protecting the Nation's blood supply. Our laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, and offer outstanding facilities along with a stimulating and challenging work environment. Current research includes investigations in the areas of viral and bacterial diseases and vaccines, mechanisms of pathogenesis, cytokines, transplantation genetics, allergy and immunology, cell biology, and monoclonal antibodies. We have active research on AIDS and related diseases.

Salary range for candidates with a Doctor of Philosophy/Science Degree is from $20,000 to $42,600. Salary range for candidates with a Medical Degree is from $24,000 to $49,266. Salary, research support, and level of responsibility are commensurate with education and experience. Applicants must be either U.S. citizens or resident aliens eligible for citizenship within four years.

Interested candidates should send a current curriculum vitae and bibliography to FDA/Centers for Biologics Evaluation and Research, Bldg. 29/Room 114.B, 8800 Rockville Pike, Bethesda, Maryland 20892. For further information, call Ms. Boyer or Ms. Hutchison on (301) 496-5394. Deadline for submission is August 15, 1988.

Food and Drug Administration
An Equal Opportunity Employer

Count on making a noticeable contribution

MANAGER
ENVIRONMENTAL TOXICOLOGY

Hoechst-Roussel Agri-Vet Company, a subsidiary of Hoechst Celanese Corporation, a Fortune 100 pharmaceutical/chemical company, has a position for a qualified Environmental Toxicologist.

The successful candidate will join our New Products Coordination Group to manage environmental field studies in the U.S.

Responsibilities will include:
- Preparing protocols, locating study sites and recommending contractors for environmental field studies.
- Providing interpretation of scientific and statistical data and practical conclusions resulting from field studies.
- Interacting with EPA, university, registration and contractors personnel to provide scientific expertise in ecological/environmental matters.
- Developing computer environmental fate modeling and providing input, interpretation and modifications of existing programs to aid in estimations of pesticide exposure and to provide information for the design of field studies.
- Maintaining current awareness of rapidly changing EPA protocols and positions on issues regarding pesticide exposure including run-off, groundwater contamination, etc.

Requirements include a PhD or equivalent with 3-5 years experience in performing aquatic, avian, drift and other field studies and will involve 30% travel.

This position, located at our modern corporate complex in a pleasant suburban setting, provides an excellent salary with comprehensive, full paid benefits package.

Send resume with salary history and requirements, to: James Hamilton, Human Resources Department, Section 50, Hoechst Celanese Corporation, Route 202-206 North, Somerville, New Jersey 08876. An affirmative action employer M/F/H.
BIOMOLECULAR CHEMISTRY/PROTEIN SEQUENCING/PEPTIDE & PROTEIN CHEMISTRY

Merck, Sharp & Dohme Research Laboratories, a leader in the discovery and development of new pharmaceutical agents for human and animal health, has several openings for chemists in our Department of Biophysical Chemistry at Rahway, New Jersey. This newly organized department is dedicated to multidisciplinary research in the application of protein structural information as an early and pivotal strategy toward the design of novel pharmaceuticals. The department presently includes our protein X-ray crystallography team, protein NMR capability and molecular modeling support and a molecular biology group directed toward site-specific mutagenesis. We are seeking to make a major expansion in biomolecular chemistry which will serve both to enhance this interdisciplinary effort and to provide a center for excellence in basic research in the fields of peptide/protein and oligonucleotide synthesis and analysis.

Laboratory Head-Biomolecular Chemistry—The successful candidate will have a Ph.D. or equivalent degree in organic chemistry with five or more years post-doctoral experience and a strong record of creativity and accomplishment in biomolecular chemistry, with an international reputation for excellence. Research interest and experience in protein microsequencing is particularly important, including experience in the problems of purification for microsequencing. Experience in organization of a multifunctional biomolecular synthesis and analysis laboratory would be desirable. You will be responsible for carrying out independent synthetic and analytical chemical research in the areas of peptide/protein, and oligonucleotide synthesis and analysis for protein structure-function studies within the interdisciplinary environment of Biophysical Chemistry, for microsequencing of proteins as part of our Molecular Biology Task Force, and for research collaborations with selected projects outside Biophysical Chemistry. You will supervise a staff of four to ten or more chemists and biochemists, and will direct the operations of a state-of-the-art facility devoted to biomolecular synthesis and analysis. In addition to considerable responsibility for formulation of research objectives and strategies for these various departmental functions, the incumbent will be expected to develop and maintain an active basic research effort directed at the development of new chemical and analytical methodologies directed at extending the state of the art in the areas of protein microsequencing and peptide/protein chemical synthesis.

Senior Peptide Chemist—The successful candidate will have a Ph.D. or equivalent degree in organic chemistry with 1-5 years post-doctoral experience, with some graduate or post-graduate training concentrated in synthetic organic chemistry outside the peptide synthesis area, and with experience in biochemistry and/or medicinal chemistry. You will be responsible for carrying out independent synthetic chemical research in the areas of peptide and protein synthesis in support of protein structure-function studies within the interdisciplinary environment of Biophysical Chemistry. You will supervise efforts of all or part of a project team, with some responsibilities for formulation of objectives and strategies. This supervision may extend to management of DNA synthesis and sequencing activities within the department. You will be encouraged and expected to develop and maintain an active basic research effort directed at new strategies and techniques for synthesis of peptides, particularly those directed at synthesis of protein-sized molecules.

Peptide/Oligonucleotide Chemist—The successful candidates will have a B.A., B.S., M.S. or equivalent degree in chemistry or biochemistry, with a strong emphasis on synthetic organic chemistry, and with some experience in laboratory chemistry outside formal education (for example, summer research or other research work experience). Course work in instrumental methods and/or biochemistry is essential. Instrumentation experience is desirable, including use of HPLC, and broad training in synthetic organic chemistry is preferred. Previous experience in peptide synthesis/microsequencing is desirable but not necessary. You will carry out synthetic and analytical chemical research or problems in the areas of peptide, protein, and oligonucleotide chemistry, operating a variety of specialized automated equipment for synthesis and analysis, utilizing information from NMR, mass spectroscopy, and other analytical techniques, and also performing research using "traditional" synthetic organic chemistry.

Protein Isolation Chemists—The successful candidates will have a M.A. degree or equivalent in Chemistry or Biochemistry, with 2 or more years of experience in protein purification. Experience with purification of recombinant proteins is desirable, and experience with purification of membrane proteins would be a plus. You will carry out purification of proteins, primarily from recombinant sources, for subsequent study by biophysical techniques. Quantities of 1-500 mg of protein of extreme purity will be required, with more rigorous characterization than required for routine biological study. You will be responsible for technical aspects of purification and analysis, including participation in the various analytical procedures, including amino acid analysis, protein sequencing, and HPLC.

Interested candidates should send a resume and three letters of reference to Ms. Theresa Marinelli, Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, NJ 07065, USA. Merck is an equal opportunity employer, m/f.
VICE PRESIDENT FOR AGRICULTURAL AFFAIRS

Applications and nominations are invited for the position of Vice President for Agricultural Affairs at the University of Florida, Gainesville. A part of the State University System, the University of Florida is a Land-Grant institution and a member of the Association of American Universities.

The university’s programs in food, agriculture, and renewable and natural resources are administered by the Vice President for Agricultural Affairs who reports directly to the President of the University. The Vice President is the administrative head of the Institute of Food and Agricultural Sciences (IFAS) which encompasses five major units: the College of Agriculture, the Agricultural Experiment Station, the Cooperative Extension Service, the School of Forest Resources and Conservation, and elements of the College of Veterinary Medicine.

The doctoral degree in an appropriate area of specialization is preferred with at least ten years of related professional work experience. Salary will be commensurate with experience and other qualifications. Nominations and applications should be submitted no later than August 1 to: Dr. E.T. York, Jr., chairman, Vice President Search Committee, Building 106, University of Florida, Gainesville, Florida 32611. Applications should include a current resume and names of at least three references. The search is conducted in accordance with Florida’s open meeting and “sunshine” law.

An Equal Opportunity, Affirmative Action Employer

RESEARCH SCIENTIST

Hazleton Laboratories America, a multinational company based in Vienna, VA, is seeking a MS/Ph.D. or B.S. with 4-6 years experience to work in our Rockville, MD laboratory as a Project Manager for an established basic research program in transplantation biology. Candidates should have experience with inbred mouse production and quality control and/or research experience in the area of mouse immunogenetics. Supervisory and PC experience required. Hazleton offers outstanding benefits including company paid family medical/dental insurance & life insurance. Qualified candidates, please call Nora at (301) 670-9600 for more information or submit resume to:

HAZLETON LABORATORIES AMERICA, INC.
9200 Leesburg Pike, Vienna, VA 22180
(703) 893-5400 ext. 231

EOE M/F

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Scientist/Postdoctoral Fellow
Molecular Biology Basic Research

Genentech, Inc., a leader in the field of biotechnology, is currently seeking individuals to participate in a project to clone and express proteins for potential therapeutic use in the broad area of bone metabolism and the endocrinology of growth.

The Scientist position requires a Ph.D. in a related field and 2 or more years of postdoc experience in molecular biology. Postdoctoral candidate should have a recent Ph.D. in molecular biology or related field.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to: Victor Smallberg, Human Resources Department B.W., Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.
REQUEST FOR PREPROPOSALS
SUPPLEMENT TO THE UNITED STATES ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BROAD AGENCY ANNOUNCEMENT

The U.S. Army has a special interest in preproposals for medical research directed toward defining the pathogenesis of and medical treatment for injuries sustained by exposure to VESICATING chemical warfare agents. Specific areas of interest include the following:

PATHOPHYSIOLOGY AND PHARMACOLOGY FOR MEDICAL COUNTERMEASURES STRATEGIES

- General organ systems – Route of entry and biodisposition of toxic agents as related to systemic toxicity.
- Skin effects – Toxicity, pathogenesis, and mechanisms of action; identification of the etiology of blister formation and protracted healing.
- Etiology, pathogenesis and mechanisms by which sulfur mustard initiates leukopenia and granulocyte depletion.
- Identification and validation of in vivo or in vitro systems to mold the actions of vesicant agents and pharmaceutical countermeasures.
- Respiratory effects – Pathophysiology, pathogenesis and sequelae of lesions, mechanisms of action and suitable pharmacological intervention.
- Ophthalmic effects – Toxicity, pathogenesis and mechanisms of photophobia and ocular damage.
- Pharmacokinetics, metabolism and pharmacodynamics of both exposure to vesicants and of candidate prophylactic and therapeutic compounds, alone and combined.

DRUG ASSESSMENT

- Development of models and criteria for the (pre-IND/NOA) identification and evaluation of antivesicant compounds which are effective as systemic pretreatment or treatment drugs (both self-aid and medical care).
- Development of models and criteria for the identification and evaluation of topical barriers which are safe and effective in the prevention of vesicant injury to skin.

MEDICAL MANAGEMENT

- Development of effective diagnostic and prognostic procedures or measures for field use to assess the extent of patient injury to include rational criteria for triage.
- Development of cumulative and acute dosimetry technology for assessment of body burden.
- Identification and development of clinical medical procedures which decrease the burden of patient care and achieve more rapid healing.
- Definition and resolution of clinical critical care issues such as treatment regimens, relief of pain and itching, wound care and respiratory support.

Threat agents of interest include sulfur mustard, lewisite, and phosgene oxime (Note that nitrogen mustard is not considered a military threat). The goal of this research for the U.S. Army Medical Chemical Defense Program is to identify promising self-aid, medical countermeasures and procedures which preserve the capabilities of the armed forces of the United States. The United States Army Medical Research and Development Command supports extramural research by competitive award of contracts. Those interested in competing for research funding under this supplement can obtain a brochure on the application process by writing to the following address:

Commander
United States Army Medical Research and Development Command
ATTN: SGRD-ACQ (BAA)
Fort Detrick
Frederick, Maryland 21702-5012

This supplement implies no commitment on the part of USAMRDC to support in whole or in part any proposal submitted in response to the contents herein.

RESEARCH ASSOCIATES
IN CELL BIOLOGY

Amgen is a dynamic and growing organization that is a recognized leader in advanced biotechnology. Our leadership in the development of Erythropoietin has placed us firmly at the forefront of the industry. Our continued growth has created immediate opportunities for Research Associates in Cell Biology.

Qualified applicants should have a BS or MS in Cell Biology, or a related discipline, and 2–4 years of experience in mammalian cell culture. Responsibilities for these positions will include maintaining mammalian cell lines as well as performing a variety of IN VITRO bio-assays to support on-going exploratory research projects. Some familiarity with molecular biological techniques is highly desirable.

Amgen offers a stimulating and challenging research environment as well as an attractive location one hour northwest of Los Angeles. Amgen also offers an excellent compensation and benefits package. Qualified applicants should send a resume and a list of 3 references, in confidence, to:

Recruitment, Dept. #29
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer

DIRECTOR
JOHN B. PIERCE FOUNDATION LABORATORY INC.

THE LABORATORY:
The John B. Pierce Foundation Laboratory Inc. invites applications and nominations for the position of Director. The Laboratory, an endowed institution affiliated with Yale University School of Medicine, comprises 30 professional staff and approximately 40 support personnel. The laboratory operates under a charter aimed towards exploring physical, biological and chemical aspects of man's interaction with the Environment. Topics of current research include thermal physiology, indoor air pollution, respiratory physiology, fluid balance during exercise, skeletal muscle fatigue and sensory perception.

THE CANDIDATE:
The successful candidate should be committed to excellence in research and teaching and have demonstrated outstanding individual accomplishments in both research and administration. The Director should hold an MD and/or PhD with research experience in a biomedical field. The Director will provide strong leadership in defining new areas of opportunity and in supporting and integrating current research areas of the Laboratory. The applicant should have the qualifications necessary for appointment at the professorial level at Yale University School of Medicine. Salary will be commensurate with experience.

APPLICATION:
Applications, including a detailed resume, names and addresses of three references, and other supporting documentation, should be mailed to:

Dr. James S. Douglas,
Search Committee,
John B. Pierce Foundation Lab.,
290 Congress Avenue,
New Haven, CT 06519

The closing date for applications is May 31st, 1988. Applications after May 31st may be considered until the position is filled. The John B. Pierce Foundation Inc. is an EO/A Employer.
INSTRUCTORSHIP—A non-tenure-track teaching position is available in the Basic Sciences Division of the School of Oceanographic Sciences and Marine Biology at the University of Victoria for a person holding a Ph.D., D.O., or M.D. degree. Teaching responsibilities include microbiology and physiology in first-year medical students. Applicants should have a curriculum vitae and letters of recommendation. The position is expected to begin on August 1, 1988, and closing date for applications is July 15, 1988. Send curriculum vitae and three letters of recommendation to: W. V. Robertson, Search Committee Chairman, Box 39036, Victoria, BC V8W 3N6. An Equal Opportunity/Affirmative Action Employer.

SCRIPPS INSTITUTION OF OCEANOGRAPHY MARINE BIOLOGY

Applications are invited for one or more ASSISTANT, ASSOCIATE, or FULL PROFESSOR (tenure-track/tenured) positions: rank, level and salary will be commensurate with qualifications and experience, based on University of California pay scale. Research areas of interest are: (i) biocatalysts of marine organisms, (ii) evolutionary studies of marine organisms using the techniques of molecular biology, and (iii) marine botany, especially biocatalysts, molecular or physiological aspects. Candidates will be expected to conduct an active research program, to hold a Ph.D. degree, and to be involved in graduate teaching and the supervision of graduate students. Applicants must hold a Ph.D. degree, or be advanced to candidacy, in an appropriate field and have demonstrated research potential through publication record appropriate for their experience and letters of recommendation. Send letter of application including description of research interests, list of publications, resumes of teaching experience and names of at least five references to: Chairman-K, A-008, Scripps Institution of Oceanography, UCSD, La Jolla, CA 92039, before 1 July 1988. An Equal Opportunity/Affirmative Action Employer, and not a bad place to live.

HEAD DEPARTMENT OF ENTOMOLOGY

The College of Agriculture and Life Sciences of North Carolina State University is inviting applications for Professor and Head, Department of Entomology. The Department of Entomology has a research faculty of 14, with an expected growth to 22 in the next five years. The Department has a very strong reputation, being one of the top departments in the country with over 600 undergraduate majors and over 100 graduate students. The Department is actively engaged in research on all aspects of insect biology, ecology, and management. The Department also has a strong extension program. The new Head will be expected to develop a strong research program and to improve the educational program. Applications are invited from candidates with a Ph.D. in entomology or a closely related field and with at least five years of professional experience in the field, and have a commitment to teaching, research and extension. Applicants must have earned the Ph.D. in entomology or closely related field and have at least five years of professional achievement in the field, and have a commitment to teaching, research and extension. Applications should be submitted to: Daniel L. Solomon, Entomology Head Search Committee, Department of Statistics, Box 8203, North Carolina State University, Raleigh, NC 27695. Telephone: 919-737-2420.
Fishery Scientist

FISH POPULATION DYNAMICS

A$28,942 pa to A$42,174 pa

DIVISION OF FISHERIES, MARINE LABORATORIES
HOBART, TASMANIA (AUSTRALIA)

THE UNIVERSITY OF IOWA COLLEGE OF MEDICINE IS SEEKING TO RECRUIT A DISTINGUISHED SCIENTIST WITH A RECORD OF SCIENTIFIC LEADERSHIP TO FILL AN ENDOURED CHAIR IN ONCOLOGY AND MOLECULAR BIOLOGY. THESE AREAS ARE BROADLY DEFINED IN THE CONTEXT OF GROWTH AND DEVELOPMENT AND MAY INCLUDE INDIVIDUALS WHOSE WORK IS NOT NORMALLY VIEWED AS RESTRICTED TO CANCER. THIS POSITION CARRIES WITH IT A SUBSTANTIAL COMMITMENT IN RESEARCH SUPPORT AND SPACE. THE SALARY WILL BE COMMENSURATE WITH EXPERIENCE. PLEASE ADDRESS LETTERS OF INTEREST ORNomination to:

Dr. P. Michael Coan
Search Committee Chairman
Professor and Head of Pharmacology
2-454 Bowen Science Building
The University of Iowa College of Medicine
Iowa City, IA 52242

The University of Iowa is an equal opportunity affirmative action employer.

Senior Investigator

Analytical Chemistry

The Department of Analytical Chemistry at Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking a qualified candidate to join an innovative, collaborative and expanding analytical section. Primary responsibilities will include:

- Plan and initiate action plan to meet the requirements of research and development programs and of IND and NDA submissions. Assist in collaboration with project and program teams.
- Review and critically analyze data to determine if they are consistent with what would be expected based on the known history of the sample and prior knowledge and experience. Furnish final reports including those requested by the review team.
- Evaluate biopharmaceuticals and proteins of research interest following discussion with the submitting scientist or research team.
- Plan and implement an analytical/biosynthetic approach and develop new methodology as necessary to solve specific problems, consulting supervisor as appropriate. Apply state-of-the-art immunological biosynthetic techniques including ELISA, Western Blotting, Electrophoresis, generation of monoclonal and/or polyclonal antibodies, analytical methods of protein analysis to assay biopharmaceutical drug substances.
- Plan the distribution of work among subordinates and schedule it to meet target dates imposed by project teams.

Desirable qualifications for the successful candidate will include:

- Ph.D. in Biochemistry/Immunology with a minimum of 4 years postdoctoral experience required, preferably in an industrial setting.
- Experience with Immunological and biochemical methods of protein analysis required.
- Demonstrated ability to work independently in area of expertise.
- Excellent written and verbal communication skills required.
- Experience with the analysis of biopharmaceutical drug substances preferred.
- Experience with writing data and regulatory agency submission preferred.
- Supervisory experience strongly preferred.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. For confidential review, please forward your C.V. and names of three references to: Mari- anne J. Shandy, Manager, Personnel Relations-J0006, Smith Kline & French Laboratories, Research & Development, P.O. Box 1599, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer. M/F/H/V.

The following advertisement is inserted by the University of Iowa and is not endorsed or approved by Smith Kline & French Laboratories.

SIK&F
A SmithKline Beecham Company
RESEARCH ASSOCIATE
PROTEIN CHEMISTRY

Amgen is an innovative and dynamic organization producing products for human health care through applied biotechnology. Our leadership in the development of Erythropoietin and other products has placed us firmly at the forefront of the industry. As a result of our continued growth, we have an immediate opportunity for a Research Associate in our Protein Chemistry Group.

Responsibilities for this position will include protein characterization, protein purification and instrument maintenance. Qualified candidates must have a BS or MS in Chemistry, Biochemistry, Engineering or Physics and 1-2 years' experience with spectrophotometric analysis including UV, fluorescence, phosphorescence or CD. Familiarity with PC-based computers is essential.

Amgen offers an exciting and challenging research environment as well as an excellent compensation and benefits package. Amgen is located about an hour’s drive northwest of Los Angeles in the scenic Conejo Valley.

Qualified applicants should send a resume, including references, in confidence to:

Recruitment Dept. #306
AMGEN
1900 Oak Terrace Lane
Thousand Oaks, CA 91320

Equal Opportunity Employer

Postdoctoral Scientists
Molecular Genetics

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

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

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

- Molecular Genetics of T-cell activation
- Tumor necrosis factor action at the molecular and cellular level
- Molecular genetics of yeast (S. cerevisiae and C. albicans)

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Barbara J. Schwartz, S0047, Associate Employment Administrator, Smith Kline & French Laboratories, Research & Development Division, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

Cardiovascular Research

Somatogenetics International (SOMATOGEN), an established biotechnology company located in the foothills of the Rocky Mountains, is expanding its program in cardiovascular therapeutics. We have immediate opportunities for Staff Scientists and Post-Doctoral Fellows in the following areas:

MOLECULAR BIOLOGY

Ph.D. level YEAST and PROKARYOTE MOLECULAR BIOLOGISTS expert in high-yield expression of novel recombinant proteins.

PROTEIN CHEMISTRY

Ph.D. level PROTEIN BIOCHEMIST with experience in state-of-the-art purification of protein pharmaceuticals on both laboratory and large scale.

Ph.D. level PROTEIN BIOCHEMIST with experience in the chemical modification and/or immobilization of enzymes.

FERMENTATION SPECIALIST

Individual with strong background in biochemical engineering and fermentation scale-up.

REGULATORY AFFAIRS

Individual with proven experience in FDA regulatory matters, GLP/GMP standards and human clinical trials.

SOMATOGEN offers an attractive fringe benefit package and competitive salaries commensurate with productivity. Please send curriculum vitae and names of three references in confidence to:

PERSONNEL DIRECTOR
SOMATOGENETICS INTERNATIONAL, INC.
350 INTERLOCKEN PARKWAY
BROOMFIELD, CO 80020

SOMATOGEN
an equal opportunity employer
Announcement
THE ARGONNE FELLOW PROGRAM

Argonne National Laboratory has established the position of Argonne Fellow to attract outstanding scientists and engineers to the Laboratory for extended periods, up to one to two years. Candidates should be distinguished scientists and engineers, at points of prominence in their careers. Multidisciplinary interests, creativity, and ability to interact with and motivate others, plus recognized preeminence in a field of current or potential importance to the Laboratory, are among particular attributes sought.

Argonne’s primary purpose as a non-profit research and development organization is to explore energy sources and investigate the fundamentals of physical, chemical, and biological sciences. It is engaged in nuclear reactor development, energy and environment R&D, biological, medical, chemical, nuclear and high energy physics, and materials science research.

During their period of residence, Fellows may choose to become associated primarily with the programs of a specific Argonne division, or they may elect to pursue interdisciplinary activities that cut across current organizational structures. In addition, the Argonne Fellow may make significant contributions to the technical environment of the entire region through interactions in the industrial and university communities.

Residency will be flexible to meet mutual objectives. Typical Fellow residency will be for one year, but a series of shorter periods in residence could be accommodated.

Financial support and other perquisites will be sufficiently attractive to command the attention of prestigious candidates.

All responses will be reviewed by the Argonne Fellow Committee. Credentials should be forwarded to: Ronald A. Johns, Appointment Officer, Employment and Placement, Box D-51, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439.

An equal opportunity/affirmative action employer

PROTEIN CHEMISTS

At Hoffmann-La Roche, we feel that one good leader deserves another. If you’re on the leading edge of protein chemistry, consider a position with one of the world’s most respected medical and pharmaceutical research leaders. We’re seeking three accomplished individuals to join our Molecular Structure Group, which has existing laboratories in protein crystallography, biomolecular NMR, computational chemistry and molecular graphics. The Group also has extensive involvements with our Molecular Genetics, Pharmacology and Medicinal Chemistry Departments.

You will be responsible for tailoring genetic engineering, expression and purification of proteins for structural determinations, via crystallography and NMR spectroscopy. You will also perform functional and mechanistic studies on the proteins, and participate in the design of pharmaceutical agents. Proteins to be investigated include HIV proteins, enzymes involved in inflammation and bacterial growth, and receptors for lymphokines, leukotrienes and peptide hormones.

SENIOR SCIENTIST
You must have a PhD in Chemistry or Biochemistry, along with protein purification experience. In addition, knowledge of genetic engineering, FPLC and protein expression would be highly preferred, postdoctoral experience and a strong interest in protein structure are highly desirable. Please respond to Eleanor M. Malone, Dept VM at the address below.

POSTDOCTORAL RESEARCH ASSOCIATE
You should have a PhD in Chemistry or Biochemistry along with protein purification experience. Knowledge of FPLC and protein expression, along with a strong interest in protein structure are highly desired. Please respond to Dr. Vincent Madison at the address below.

ASSOCIATE SCIENTIST
You should have a BS or MS in Chemistry or Biochemistry and biochemical skills. Experience in protein purification and handling small amounts of material are desirable. Please respond to Frances Newman, Dept MH at the address below.

In return, we offer attractive salaries and benefits programs, and the scientific resources you’ll need for professional satisfaction. For consideration, please send your resume to the person and department indicated above, at: Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Hoffmann-La Roche
Working Today For A Healthier Tomorrow
PHARMACOLOGIST/NEUROPHARMACOLOGIST: Assistant professor (non-tenure/instructor/postdoctoral fellow to join major neuroscience laboratory with an active research program. The Department of Pharmacology and Therapeutics at the University of Buffalo (SUNY) is seeking a scientist with a background in CNS research. The candidate must have a Ph.D. in pharmacology, neuropharmacology, or related field. A strong commitment to teaching is required. The position is available immediately. For more information, please contact Dr. James M. Reis, Department of Pharmacology and Therapeutics, University at Buffalo, SUNY, 142214. Applications should be submitted by December 15, 1988.

POSTDOCTORAL FELLOW—ANIMAL BIOLOGIST/NEUROCHEMIST. Experience in immunohistochemistry and/or electrophysiology of the nervous system is required. The position is available immediately. For more information, please contact Dr. Richard L. Smith, Department of Neurology, University of California, San Francisco, 1400 Turk Street, San Francisco, CA 94115. Applications should be submitted by December 31, 1988.

POSTDOCTORAL FELLOW IN NEUROPHYSIOLOGY. The position is available immediately. For more information, please contact Dr. Robert A. Reis, Department of Neurology, University of California, San Francisco, 1400 Turk Street, San Francisco, CA 94115. Applications should be submitted by December 31, 1988.

POSTDOCTORAL FELLOW IN BIOCHEMISTRY. The position is available immediately. For more information, please contact Dr. James M. Reis, Department of Biochemistry, 1400 Turk Street, San Francisco, CA 94115. Applications should be submitted by December 31, 1988.
POSITIONS OPEN

UNIVERSITY OF CALIFORNIA—RIVERSIDE

POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the membrane proteins of malaria-infected red blood cells as they relate to antigenic variation. Projects involve the preparation of monoclonal antibodies, protein purification, peptide mapping, and immunolocalization. Applicants should have a recent Ph.D. with a background in protein chemistry, hybridoma methodology, and membrane isolation.

Salary commensurate with education and experience. Applicants should send their curriculum vitae, statement of research interest, and arrange for three letters of reference to be sent to:

Professor Irwin Sherman
1140 Baker St
University of California
Riverside, CA 92521

UCR is an Equal Opportunity Employer/Affirmative Action Employer. Applicants and female candidates are encouraged to apply.

POSTDOCTORAL POSITION available immediately to participate in studies on hormonal regulation of gene expression in heart and skeletal muscles (J. Biol. Chem. 262, 13136; Proc. Natl. Acad. Sci. USA 87, 3122). Recent Ph.D. in biochemistry, microbiology, pharmacology, or a related field with strong molecular biology research background is preferred. Opportunity to develop independent project. Salary negotiable. Send curriculum vitae together with names of three references to: Eugene Morkin, M.D., Director, University of California Health Sciences Center, Tucson, AZ 85724. An Equal Opportunity Affirmative Action Employer. Closing date for applications is 27 May 1988.

POSTDOCTORAL POSITION is available to study the molecular basis for alphavirus neurovirulence utilizing site-directed mutagenesis of full-length cDNA clones of Sindbis or Venezuelan equine encephalitis virus genomes. Experience in molecular genetics or neuroepidemiology is preferred. Send curriculum vitae and the names of three references to: Robert E. Johnston, Department of Microbiology, North Carolina State University (NCSU), Raleigh, NC 27695-7615. NCSU is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for a Ph.D. in biochemistry, immunology, cell biology, pharmacology, or related areas to study the cellular and biochemical mechanisms of multidrug resistance in cancer cells. Experience in monoclonal antibody production and membrane/receptor biochemistry desirable. The position is available up to 3 years. Applicants should send curriculum vitae, recent publications, and three letters of reference to: Dr. Ahmad R. Safa, Joint Section of Hematology/Oncology, University of Chicago and Michael Reese Medical Centers, c/o Department of Human Resources, Lake Shore Drive at 31st Street, Chicago, IL 60616. Equal Opportunity Employer NF.

POSTDOCTORAL POSITION in BIOCHEMICAL PHARMACOLOGY for recent Ph.D. interested in the biochemical modulation of anticancer drug activity. Research on the use of nucleoside transport inhibitors to increase the selectivity of antimetabolites against human tumor cell lines growing in culture or as xenografts in mice. Salary $22,000 to $25,000. Send curriculum vitae and four letters of recommendation to: Judith A. Belt, Ph.D., Department of Biochemical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

One position will be in the area of bacterial chemotaxis and motility. Another position will be in the area of regulation of expression of flagella and chemotaxis genes. Experience in biochemistry and/or molecular genetics is desirable. One position is immediately available and the second position will be available in fall 1988. Send curriculum vitae and names of three references to: Dr. Philip Matsumura, Laboratory of Cell, Molecular and Developmental Biology, University of Illinois at Chicago, P.O. Box 4345 m/c-067, Chicago, IL 60680. An Equal Opportunity Employer.

Life Sciences Research Scientists

Eastman Kodak Exploratory Sciences Division, Life Sciences Research Laboratories has openings available in Rochester, New York. You would be in a leading and highly equipped research facility that offers an excellent working environment within minutes of the shore of beautiful Lake Ontario.

ENZYMEOLOGY

MS with experience or PhD in Biochemistry or related discipline. Successful candidate will be involved in research in the area of enzymes involved in the biosynthesis and metabolism of physiologically significant lipids. The initial challenge will be isolation and characterization of novel enzymes.

ENZYME MECHANISMS

PhD in biochemistry or related discipline. Post doctoral experience is desirable. Successful candidate will carry out detailed chemical mechanism studies utilizing modern genetic tools on enzymes involved in lipid metabolism.

PROTEIN CHEMISTRY

BS/MS or PhD in biochemistry or related discipline. Successful candidate will be responsible for purification and initial characterization of desired proteins to provide materials to various research teams. Experience in enzyme assay and in modern methods of protein isolation, purification and characterization is necessary.

MOLECULAR BIOLOGY

MS with experience in molecular biology or related discipline. Successful candidate will be involved in research in the area of gene isolation, regulation and control in prokaryote and eukaryote systems. Initial challenge will be in cloning the desired genes and characterizing the gene products.

PhD with postdoctoral experience in molecular biology of plant pathogens. Successful candidate will be involved in research in the area of bacterial and fungal genetics and plant-pathogen interactions.

MICROBIOLOGY

BS/MS in microbiology or related discipline. Assist senior scientist in biocatalysis laboratory. Will be required to perform microbiological experiments, isolate and maintain cultures, run enzyme incubations, run enzyme assays, purify enzymes and general laboratory management and upkeep. Experience in microbiological and biochemical procedures desirable.

Life Sciences Research Laboratories offer the entrepreneurial spirit of a new business with the goals and resources of a leading company. In addition to an excellent salary/benefit package, we provide an environment conducive to both personal and professional growth. For prompt consideration, please send your resume to: Eastman Kodak Company, Personnel Resources Dept. DALS, Rochester, NY 14650.

Kodak.
The right place.
The right time.

An equal opportunity employer.
POSITIONS OPEN

POSTDOCTORAL POSITION available to study Ca2+ homeostasis in cardiac muscle tissue, including calcium ion transport and phospholipid metabolism. Experience in some or more of the following areas preferred: membrane biochemistry, protein purification, immunochemistry. Please send curriculum vitae and three names of references to: Dr. D. McFarlane, Department of Physiology/Pharmacology, Box 1218, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR NEUROBIOLOGY available fall 1988 to work on a project using site-directed mutagenesis to examine structural features involved in function and assembly of ACh receptors. Experience in either electrophysiology or molecular biology helpful. Send curriculum vitae and names of three references to: Dr. Michael White, Department of Pharmacology, University of Pennsylvania, Philadelphia, PA 19104-6084. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately for studies on the structures and biosynthesis of proteoglycans. Experience in polysaccharides and/or proteins; blood coagulation; or cell culture is preferred. Send curriculum vitae and references to: Dr. Isidore Danishefsky, Biochemistry Department, New York Medical College, Valhalla, NY 10595. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN VIROLOGY available immediately. Work will involve studies in replication of RNA-containing viruses. Molecular approaches to develop novel antivirals (antisense RNA, etc.). Training in molecular biological techniques will be provided. Competitive salary, subsidized housing available. Send curriculum vitae and names of three references to: Dr. Peter Palese, Box 1124, Department of Microbiology, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for recent PhD's to participate in an active research program on the regulation of DNA repair in human cells. Current research efforts focus on the expression of DNA repair enzymes in the cell cycle and structural analysis of eukaryotic minenzyme DNA repair complexes. Submit curriculum vitae and the names of two references to: Dr. Michael A. Simon, Fels Research Institute, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available for recent PhD's to participate in an active research program on the regulation of DNA repair in human cells. Current research efforts focus on the expression of DNA repair enzymes in the cell cycle and structural analysis of eukaryotic minenzyme DNA repair complexes. Submit curriculum vitae and the names of two references to: Dr. Michael A. Simon, Fels Research Institute, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately to characterize human and simian immunodeficiency virus infections in chimpanzees and various non-human primate species. Opportunities exist to study mechanisms of pathogenesis, molecular and biologic properties of viruses isolated from naturally and experimentally infected animals, immunologic responses to HIV and SIV of infected animals and responses of animals to therapeutic drugs and vaccines. A background in molecular biology, virology, and/or immunology and highly motivated individuals are sought. Support available for at least 2 years with salary negotiable, based on experience. Send curriculum vitae and names of three references to: Dr. Harold McClure, Yerkes Regional Primate Research Center, Emory University, Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately for microbial geneticists to join active DNA repair group using molecular biological, enzymatic, and immunochemical approaches. Good salary, enthusiastic group, well-funded program, great environment. Qualified candidates should submit curriculum vitae and the names of three references to: Dr. Susan Wallace, Department of Microbiology, University of Vermont, Burlington, VT 05405.

POSTDOCTORAL POSITIONS available immediately for DRUG METABOLISM research scientist positions at Merck Sharp and Dohme Laboratories in Rahway, New Jersey. Excellent opportunity for the interested scientist to work in a challenging, fast-paced environment. Salaries are highly competitive.

Merck Sharp and Dohme Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Benefits are excellent. Please send resume with salary history to Ms. Jacqueline A. Ehlert, P.O. Box 2000, Rahway, New Jersey 07065. Equal Opportunity Employer.

Scientist-Drug Metabolism

The Animal Drug Metabolism Department at Merck Sharp and Dohme Laboratories has openings for a chemist-biochemist who is interested in pursuing a career in drug metabolism. The successful candidate will participate in studies of in vitro metabolism as well as absorption, distribution metabolism, and excretion of drugs in vivo. The candidate should have some knowledge of drug metabolism with demonstrated strengths in modern analytical techniques, such as HPLC or RIA. Other desirable qualifications include:

- B.S. degree with 3-5 years experience or M.S. degree with 1-2 years experience in chemistry/biochemistry or related areas.
- Experience in the isolation, purification and characterization of metabolites from biological fluids.
- Knowledge in data interpretation of NM R Spectroscopy or Mass Spectrometry.
- Experience in handling of radiolabeled chemicals.
- Skills in small animal handling or surgical techniques.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Benefits are excellent. Please send resume with salary history to Ms. Jacqueline A. Ehlert, P.O. Box 2000, Rahway, New Jersey 07065.

Equal Opportunity Employer.

Biotechnica International, Inc.

BioTechnica International, Inc., a company specializing in the development of next-generation technologies in the areas of microbial systems, chemical engineering, and agricultural biotechnology, has an opening at its Cambridge, Massachusetts facility for a highly motivated Ph.D. scientist in the area of DNA probe diagnostics. The ideal candidate will have several years' experience with nucleic acids chemistry and physical chemistry, including:

- Hybridization kinetics
- Hybridization equilibria
- Nucleic acid biochemistry/enzymology
- Nucleotide chemistry
- Chemical modification of nucleotides
- Optical detection methodology
- Automated oligonucleotide synthesis equipment and procedures

The position involves hands-on development of novel approaches to DNA probe diagnostic problems. The position will be filled about July 1, 1988, at a salary commensurate with experience.

BTI offers competitive salaries and excellent employee benefits. Please send letter of application referring to position number 2115, a CV, and names of three references to:

Personnel Department
BioTechnica International, Inc.
85 Bolton Street
Cambridge, MA 02140

Research Scientist

BioTechnica International, Inc., a company specializing in the development of next-generation technologies in the areas of microbial systems, chemical engineering, and agricultural biotechnology, has an opening at its Cambridge, Massachusetts facility for a highly motivated Ph.D. scientist in the area of DNA probe diagnostics. The ideal candidate will have several years' experience with nucleic acids chemistry and physical chemistry, including:

- Hybridization kinetics
- Hybridization equilibria
- Nucleic acid biochemistry/enzymology
- Nucleotide chemistry
- Chemical modification of nucleotides
- Optical detection methodology
- Automated oligonucleotide synthesis equipment and procedures

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BioTechnica International, Inc.
85 Bolton Street
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- B.S. degree with 3-5 years experience or M.S. degree with 1-2 years experience in chemistry/biochemistry or related areas.
- Experience in the isolation, purification and characterization of metabolites from biological fluids.
- Knowledge in data interpretation of NMR Spectroscopy or Mass Spectrometry.
- Experience in handling of radiolabeled chemicals.
- Skills in small animal handling or surgical techniques.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Benefits are excellent. Please send resume with salary history to Ms. Jacqueline A. Ehlert, P.O. Box 2000, Rahway, New Jersey 07065.

Equal Opportunity Employer.
The San Marino Conferences, under the auspices of the San Marino Ministry of Health, have been established to review annually the progress in selected areas of biomedical research dealing with disorders of the immune system, virus infections and cancer. The conferences will focus on modern developments of basic research and their applications in medicine. AIDS will be the theme of the first conference to be held in San Marino from October 10–14, 1988.

PRELIMINARY CONFERENCE PROGRAM
Among speakers are:

Opening Address: H. Temin (USA)
Introductory Lectures: R. C. Gallo (USA)
L. Montagnier (France)

Plenary and Scientific Sessions:

- Epidemiology: N. Clumek (Belgium), W. Blattner (USA), M. Essex (USA)
- Cell & Molecular Biology: F. Wong-Staal (USA), S. Wain-Hobson (France), W. Haseltine (USA)
- Virus/Cell Interactions: R. Weiss (England), L. Laskey (USA), M. Rosenberg (USA)
- Immunology: F. Melchers (Switzerland), E. Reinherz (USA), H. Wigzell (Sweden), M. Feldman (Israel)
- Vaccines & Therapy: H. Koprowski (USA), M. Hilleman (USA), D. Bolognesi (USA), D. Zagury (France), S. Broder (USA)

Other Topics of Scientific Sessions:

Animal Models
Pathogenesis
Diagnostics
Clinical Care

Round Table Discussion:

Legal, Social, Economic, Ethical and Health Problems:
F. Angelini (Holy See) R. Maxwell (England)
D. Baars-Krey (RSM) D. Sabiston (USA)
F. Giammanco (Italy) E. Wynder (USA)
J. Leconte (France) J. Wyngaarden (USA)
L. Zirimwabagangago (Zaire)

Meeting Summary: Carlton Gajdusek

Attendance will be limited to 500 participants (100 with posters) which will be selected by a scientific committee. Applications should include, in English, an abbreviated curriculum vitae with a statement of current scientific and/or medical interests, all on one type-written page. Abstracts for poster presentation should be no longer than 200 words.

Applications should reach the
Secretariat of the San Marino Conferences
c/o Dr. Sante Canducci, Executive Director
San Marino Ministry of Health
I.47031 REPUBLIC OF SAN MARINO
Fax: (39)541-803967
Telex: (505)578
(866)578 (from USA)

Applicants will be informed of the decision of the scientific committee by July 31, 1988. Registration fee, not including accommodations and meals, will be U.S. $250 until August 31, thereafter $300. Only accepted participants should send the registration fee.

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BIOCHEMICAL TOXICOLOGIST
Rohm and Haas Company has an immediate opening in its Toxicology Department at the Corporate Research Center in Spring House, PA, twenty miles north of center-city Philadelphia.

This scientist will work as a Study Director in the Biochemical Toxicology group, with responsibility for conducting and reporting studies to elucidate mechanisms and circumstances that might lead to toxic responses. Pharmacokinetic and in vitro enzymatic assays will be emphasized.

A Ph.D. in Toxicology, Pharmacology, Biochemistry, or a closely related program, and post-doctoral experience are required. Strong communicating and writing skills are necessary, as is scientific independence. Computational ability is expected.

Rohm and Haas offers a highly competitive salary and benefits program, and is committed to growth through research. Candidates must have U.S. citizenship or proof of their right to work and remain in the U.S. Interested persons should send a detailed resume, including names, addresses, and telephone numbers of three professional references, to:

Corporate Staffing #2288
ROHM & HAAS
PHILADELPHIA, PA. 19105
An Equal Opportunity Employer M/F.

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Ph.D. RESEARCH SCIENTIST
CENTRAL NERVOUS SYSTEM PHARMACOLOGY

As a result of the recent merger of American Home Products Corporation's two pharmaceutical divisions, Wyeth Laboratories and Ayerst Laboratories, we are now one of the largest pharmaceutical companies in the world. We currently have an opening for a Ph.D. Scientist in the CNS Department of our expanding Princeton, NJ research facility.

Specific responsibilities will include the establishment of in vitro neurophysiological-electrophysiological models to study the molecular mechanisms of drug action on the central nervous system. A Ph.D. in physiology/pharmacology is required. Postdoctoral experience with a strong understanding of the pharmacology of psychotherapeutic drugs supported by well-developed written and oral communication skills are essential.

We offer an excellent salary and benefits package plus opportunities for career advancement along with an ultra-modern research facility. Interested candidates please send resume to:

PERSONNEL MANAGER, DEPT. TH

WYETH-AYERST RESEARCH
CN 8000
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An Equal Opportunity Employer M/F/H/V
TO THE UNIVERSITY OF CALIFORNIA, IRVINE
POSTDOCTORAL RESEARCH ASSOCIATE IN IMMUNOLOGY
The Department of Psychology, University of California, Irvine (UCI), seeks applications for postdoctoral research positions in the laboratories of the faculty with starting dates between 1 December 1988 and 30 April 1989. The appropriate research areas are: A. Aswad (neurochemistry); M. Baudry (cell biology and neurochemistry); D. Costan (synaptic growth and plasticity); B. Josephson (comparative physiology of mammals). Applications from women, minority persons, handicapped persons and special disabled or Vietnam era veterans are especially welcome.

POSITIONS OPEN
POSTDOCTORAL POSITIONS available to study hormonal regulation of breast cancer growth. Applicants should have an advanced degree (Ph.D. or M.D.) and previous research experience in cell culture, radioimmunoassays, radioceptor assays, growth factors and nude mouse work to allow a minimum of 1 year's experience with names and addresses of three references to: Dr. Aruna Mantri, The Milton S. Hershey Medical Center/The Pennsylvania State University, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Position available in Biochemistry Department, University of Illinois at Chicago. Ph.D. in Biochemistry required, with interest in molecular biology. Experience in one of the following areas desirable: protein biochemistry, especially transduction and regulation of signal (preferably biochemistry); experience in recombinant DNA methods favored. Send curriculum vitae and three reference names to: Dr. David Wyler, New England Medical Center Hospitals, 750 Washington Street, Box 941, Boston, MA 02111.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Position available immediately. Research is on differential gene repair of helix-stabilizing (antimutator antibodies, anthramycin and GC-1065) and stabilizing (BPDE and NAAAD) DNA damage by using purified UVRABC proteins, and DNA hybridization methods. The project involves protein purification and DNA sequencing. Send curriculum vitae and names of references to: Dr. Moon-Shong Tang, University of Texas System Cancer Center, Science Park, P.O. Box 389, Smithville, TX 78957. An Equal Opportunity/Affirmative Action Employer.

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RESEARCH ASSOCIATE CARDIOVASCULAR PHARMACY

The Squibb Institute for Medical Research is recognized internationally as a leader in the research and development of novel therapeutic agents for the treatment of cardiovascular and infectious diseases. We currently have an exceptional opportunity for an experienced research scientist to join our Pharmacology Department.

You will be responsible for conducting in vivo and in vitro experiments related to myocardial ischemia and cardiovascular pharmacology. You will also perform large and small animal surgery with emphasis on thoracic work, data analysis and report writing as required.

Qualified candidates should have a BS (MS preferred) in Biology and a minimum of 2 years related research experience.

In addition to an excellent starting salary and comprehensive benefits package, we can offer the opportunity to pursue a stimulating and rewarding career. For confidential consideration, please submit your resume to The Squibb Institute for Medical Research, Human Resources Department 729, PO Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

III

SQUIBB
Where science comes to life.

Assistant/Associate Director of Clinical Research

Immunex Corporation, a Seattle-based biotechnology corporation in the forefront of research and development in immune regulation, currently has an immediate opportunity for an Assistant/Associate Director of Clinical Research.

The primary responsibilities for this position will include managing and interpreting clinical trials for FDA submission, overseeing data collection activities; monitoring medical questions; and interaction with research and development, manufacturing, regulatory affairs, and physician investigators.

The qualified applicant will have a PhD or MD and 2-5 years of clinical research experience. Experience with biologics is advantageous.

Immunex offers a challenging and rewarding work environment, as well as an excellent compensation and benefits package. For consideration, please submit resume together with the names of three references to: Immunex Corporation, Human Resources Director, Dept. SCI, 51 University Street, Seattle, WA 98101. EOE.
**RESEARCH ASSISTANT PROFESSOR**

Applications are invited from candidates interested in joining an interdisciplinary research group investigating various aspects of mitochondrial biology. Research focus will be on (i) the control of mitochondrial movement in cells, and (ii) the diffusion and collisional interactions of inner membrane proteins related to electron transport and ATP-synthesis. Methodological approaches include membrane and cytoskeletal biochemistry, fluorescence recovery after photobleaching, resonance energy transfer, fluorescence UV/VIS spectroscopies, nanometer particle video microscopy, multiparameter digitized video microscopy, and freeze fracture electron microscopy. Support technical and computer facilities provided. Salary competitive with research faculty levels.

Ph.D. and good record of research publications required. Send applications, including curriculum vitae and the names of three references to: Dr. C. R. Hackenbrock, Laboratories for Cell Biology, Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, School of Medicine, CB#7090, 108 Swing Building, Chapel Hill, NC 27599-7090 by 30 June 1988. An Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE**

Full-time position to work on the physiology and ultrastructure of synaptic transmission. The project involves freeze-fracture and serial thin section studies of identified synapses. The research associate will have input into the course of the studies and should have expertise in ultrastructural techniques and an understanding of electrophysiology. A B.S. degree is required, an M.S. degree is preferred. Salary is commensurate with education and experience. Application deadline: 15 July 1988. Send curriculum vitae and three letters of reference to: Dr. Bruce G. Lindsey, Department of Physiology and Biophysics, University of South Florida Medical Center, Tampa, FL 33612. An Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE**—for studies of synthesis, packaging and membrane expression of complement receptor/adherence proteins in human neutrophils and myeloid cell lines. Experience with immunoassays, monoclonal antibodies and/or cell fractionation and membrane protein biochemistry techniques desirable. Salary/benefits dependent on qualifications. Send curriculum vitae and references to: Melvin Berger, M.D., Ph.D., Division of Immunology, Department of Pediatrics, Case Western Reserve University, 2109 Adelbert Road, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

**RESEARCH POSITION IN MATHEMATICAL PHYSICS**

A position as postdoctoral fellow in mathematical physics at an annual salary of $24,000 will be available at Harvard University starting 1 September 1988. The position is for 3 years, with the possibility of renewal or promotion. Specific areas of interest include constructive field theory, geometry and field theory or string theory, or related statistical mechanics problems. It is expected that the applicant have significant experience in applying methods of constructive field theory to supersymmetric quantum field theories and to related questions of geometry in infinite dimensional spaces. Applications and references should be sent to:

Professor Arthur Jaffe
Lyman Laboratory
Harvard University
Cambridge, MA 02138

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**Laboratory Animal Clinical Veterinarian**

Pfizer Central Research is seeking a veterinarian to provide veterinary medical services and expertise in laboratory animal science to support its Research Animal Resources Section.

This position provides the opportunity to expand the scope and delivery of basic veterinary services to the Division in areas such as direct veterinary care of research animals, animal health surveillance programs and the development and implementation of standard operating procedures.

Your duties will include providing advice and assistance to research scientists, participation in maintaining a veterinary surgical service and implementing contemporary methods and procedures for management of research animal colonies. You will participate in ensuring compliance with federal, state and local statutes and internal procedures and standards.

You must have a minimum of three years practical experience in clinical laboratory animal medicine and/or two years of formal postdoctoral training. It is desirable that you be an ACLAM diplomate or be eligible to sit for that board examination and that you have expertise in veterinary ophthalmology.

This position offers a stimulating professional environment in an attractive Connecticut shore area, complemented by a competitive salary/benefits package and relocation assistance. Forward your resume, description of research accomplishments and references to: Jerry K. Larson, Ph.D., Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

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**Research Scientist Molecular Biology**

Triton Biosciences Inc., a subsidiary of Shell Oil Company, is a fully integrated pharmaceutical and diagnostics company focused on product development opportunities in the area of cancer and other life-threatening diseases.

An excellent opportunity exists for an innovative researcher within the Molecular & Cell Biology Department. Applicants should have a Ph.D. in Microbiology, Molecular Biology or Biochemical Engineering, plus a strong background in microbial genetics and/or microbial physiology and 2-3 years postdoctoral or industry experience.

The successful candidate will work closely with several rDNA laboratories to design, test, and scale-up different host/vector systems and fermentation protocols to facilitate industrial production of cancer therapeutic and diagnostic regents. Experience with state-of-the-art fermentation equipment would be an asset.

Triton is located in the San Francisco Bay Area and offers competitive salaries and benefits including relocation assistance. For consideration, send CV with salary history and references to: Triton Biosciences Inc., 1501 Harbor Bay Parkway, Alameda, CA 94501. An Equal Opportunity Employer.
UNIVERSITY OF HAWAII
BIOTECHNOLOGY PROGRAM

The Biotechnology Program at the University of Hawaii at Manoa is selectively expanding existing research in tropical/subtropical biology. Two areas selected for immediate expansion are symbiotic nitrogen fixation by tropical rhizobia and solar energy conversion by prokaryotes, using molecular and immunological approaches.

The Biotechnology Program, which is a joint activity of the Pacific Biomedical Research Center (PBRC) and the Hawaii Institute of Tropical Agriculture and Human Resources (HITAHR), coordinates campus-wide biotechnology research in agriculture and biomedicine. The University of Hawaii at Manoa has a wide range of basic biology departments and professional schools. The Biotechnology Program operates a molecular biology core facility which provides services in protein sequencing, peptide and oligonucleotide synthesis, and has extensive hardware and software for computer assisted constructions and data analysis.

1. Assistant/Associate Researcher, HITAHR. A tenure-track position is available in the area of molecular genetics of tropical rhizobia. At the Assistant Researcher level candidates should have a Ph.D. in molecular biology, microbiology, or related discipline with postdoctoral experience in rhizobial genetics or a related area. At the Assistant Researcher level candidates should also have a demonstrated record of extramural funding. HITAHR offers unique opportunities for collaboration in tropical rhizobia through its major existing program (NITAL) in tropical symbiotic nitrogen fixation. The successful candidate will be expected to establish a major program in the subject and will hold an academic appointment in an appropriate department of the College of Tropical Agriculture and Human Resources.

2. Assistant/Associate Researcher, PBRC. A tenure-track position is available in the area of the molecular genetics of solar energy conversion, particularly hydrogen evolution. At the Assistant Researcher level candidates should have a Ph.D. in molecular biology, microbiology or a related discipline and postdoctoral experience in an area related to the molecular genetics of solar energy conversion prokaryotes. At the Associate Researcher level candidates should also have a demonstrated record of extramural funding. The Chemistry Department of the University has a major program in the natural products chemistry of cyanobacteria, which offers an excellent opportunity for collaboration. The successful candidate will have an academic appointment in an appropriate department.

3. Assistant Researcher, PBRC. A state-funded, presently non-tenured, position to develop an independent program in molecular genetics of bacteria is available. A Ph.D. in microbiology or molecular biology with postdoctoral experience in the molecular genetics of bacteria is required.

Salary and rank depend on qualifications and experience. Earliest starting date July 1, 1988, or as soon thereafter as suitable candidates are found. Please send applications and names of three referees to:

SURES H. PATIL, Director
Biotechnology Program
University of Hawaii
3650 Maile Way, Room 410
Honolulu, HI 96822

EED/AA

ASSOCIATE DIRECTOR
PATENT, TRADEMARK & COPYRIGHT OFFICE (PTCO)

The PTCO administers the patent program for a major multi-campus western research university system. Services provided include prosecution and licensing of inventions, financial management of resulting income, and policy guidance and information on a broad range of intellectual property issues. The office consists of 25 individuals, roughly half of whom hold professional or management appointments.

This newly created position will serve as the Internal Operating Officer, under the guidance of the Director. He/she will have day-to-day management responsibilities in all functional areas including plant and utility inventions, receipt to disposition; ongoing fiscal/technical management of agreements; sponsor relations and general assistance to campuses and organizational units, re: intellectual property issues; staffing, budget and administrative support; and policy formulation/implementation as requested by the Director.

Requirements: Bachelor’s degree in a physical science, biological science or engineering and 8 years experience in management of a technology assessment/development function in a large, complex university or private sector environment. Must be a U.S. citizen and registered with the U.S. Patent Office.

Candidates must have strong organizational/administrative skills, with ability to manage smooth/efficient operations while processing substantial and varied work loads. Mature judgement, strong interpersonal skills, and ability to exercise constraint in dealing with internal and external issues is also required, plus the ability to function effectively in a complex organization structure.

The individual should be decisive, able to take risks, and experienced enough to quickly gain respect of staff and industry. He/she must have a thorough understanding of patent and licensing law; familiarity with newer technologies would be helpful. Starting salary up to $70,000 commensurate with experience.

To apply, please send resume and salary history to: #100 Shoreline Hwy., P.O. Box 2126, Sausalito, CA 94966. We are an equal opportunity employer.
RESEARCH TECHNICIAN—WITH EXPERIENCE IN RECOMBINANT DNA TECHNIQUES

Applicant will be involved in downstream processing of eukaryotic cell lines encoding neuronal cell surface proteins and should be familiar with methods of nucleic acid hybridization and cDNA library screening. 

Send curriculum vitae and three letters of reference to: T. Jessee, Howard Hughes Medical Institute, 722 West 168th Street, Research Annex, New York, NY 10032.

SCIENTIFIC RESEARCH

Two staff scientist positions exist in the Department of Pathology at the National Research Institute for Infectious Diseases. These openings are Federal civil service positions in an established research group studying viral protein toxins. Applicants must be U.S. citizens.

Salary: $33,218 through $43,381 per annum.

IMMUNOLOGIST—Expertise and interest in the development of novel and novel vaccines against protein toxins.

Salary: $35,950 through $51,354 per annum.

MOLECULAR GENETICIST—Expertise and interest in the generation and expression of cloned proteins for possible use as vaccines or basic research studies.

Salary: $49,420.

UNIVERSITY OF MARYLAND

DEPARTMENT OF PHYSICS AND ASTRONOMY

SUPERCONDUCTIVITY RESEARCH

The new State-funded Center for Superconductivity Research seeks candidates to fill the following positions in the area of SUPERCONDUCTIVITY.

FULL PROFESSOR in experimental condensed matter physics. Preference will be given to candidates in the area of Materials Physics.

ASSISTANT PROFESSOR in experimental condensed matter physics.

RESEARCH SCIENTISTS, with particular expertise in materials growth.

POSTDOCTORAL FELLOWSHIPS.

GRADUATE STUDENT FELLOWSHIPS.

UNIVERSITY OF MARYLAND

DEPARTMENT OF PHYSICS AND ASTRONOMY

SUPERCONDUCTIVITY RESEARCH

TECTONICS/SCRIPPS INSTITUTE OF OCEANOGRAPHY

Applications are invited for one or more TENURED OR TENURE-TRACK FACULTY POSITIONS in tectonics. Applicants must hold the Ph.D. degree, or be advanced to candidacy, and will be expected to conduct a vigorous research program in the general field of tectonics. Areas of interest are not restricted to include such diverse subjects as: plate motions, lithospheric deformation, processes at plate boundaries and rock mechanics. Ocean-related experience and/or interests, while not a condition of candidacy, will be considered in the evaluation of candidates. A joint department and supervisory of graduate research will be an integral part of the responsibilities of the successful candidate. The level of appointment and salary will be competitive. Prospective candidates should submit a letter of interest and three letters of reference to: Professor Jeffrey Lynn, Department of Physics, University of Maryland, College Park, MD 20742. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UROLOGY FACULTY POSITION

The Department of Urology, Tulane University School of Medicine in New Orleans is seeking an individual with interests in both research and clinical urology. The successful candidate should have an interest in the field of scientific applications of computerized urologic imaging and clinical applications of urologic research, with an emphasis on urologic cancer. The successful candidate will be expected to complete a fellowship in urologic oncology and maintain an active research program. Interested candidates should apply, with curriculum vitae and three letters of recommendation, to: Dr. E. Michael Reed, Department of Urology, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112.

An Equal Opportunity Employer

CONFERENCE

MOLECULAR BIOLOGY AND PATHOLOGY

Copper Mountain, Colorado

24 to 29 July 1988

Teaching and research conference on advanced techniques in molecular biology and animal virology.

Send inquiries to: Professor Jeffy Lynn, Department of Physics, University of Maryland, College Park, MD 20742. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

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An Equal Opportunity Employer

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain a doctor of optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Ph.D.-O.D. Program Director, Admissions Office, The New England College of Optometry, Room 14, 424 Beacon Street, Boston, MA 02115.

SYMPOSIUM

FIFTH INTERNATIONAL SYMPOSIUM ON THE IMMUNOLOGY OF PROTEINS AND PEPTIDES

VACCINES MECHANISM, DESIGN, AND APPLICATIONS

2 to 5 October 1988

Chateau Lake Louise

Alberta, Canada

For information: Dr. M. Z. Atassi, Baylor College of Medicine, Texas Medical Center, Houston, TX 77030.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP position available in July 1988 for research in the structure and function of human glycoprotein hormones (human chorionic, lutropin, and follitropin). Applicant must have doctoral degree and experience in protein purification and ligand binding assays. Experience in HPLC, peptide synthesis and amino acid analyses are desirable. A minimum of two letters of recommendation are required. Send applications to: Dr. R. E. Coyle, Department of Biochemistry and Molecular Biology, Mayo Medical School, 200 1st Street Southwest, Rochester, MN 55905. Closing date for applications is July 1988. (FDS is an Equal Opportunity/Affirmative Action Employer.)
ANNOUNCING

FIRST ANNUAL BRISTOL-MYERS AWARD FOR DISTINGUISHED ACHIEVEMENT IN NEUROSCIENCE RESEARCH

Bristol-Myers Company presents an annual award to a scientist making an outstanding contribution in neuroscience research. Candidates for the award are to be nominated by medical schools, hospitals and neuroscience research centers.

AWARD: $50,000 U.S.
Deadline for Receipt of Nominations: June 15, 1988
Announcement of Award Recipient: Fall 1988

SELECTION COMMITTEE

GEORGE K. AGHAJANIAN, M.D., Yale University School of Medicine and Ribicoff Research Facilities
IRA B. BLACK, M.D. Cornell University Medical College— New York Hospital
CARL W. COTMAN, PH.D. University of California, Irvine
FRED H. GAGE, PH.D. University of California, San Diego
SOLOMON H. SNYDER, M.D. The Johns Hopkins University School of Medicine

Rules and official nomination forms are available from: Secretary, Award Committee Bristol-Myers Award for Distinguished Achievement in Neuroscience Research 345 Park Avenue, 43-72, New York, New York 10154.
Amino Acid Analysis.
Not just results...the right results...
HP AminoQuant.

Square oranges? You can see it's not quite right. But in amino acid analysis, it's been difficult to tell what is right. At last you can be sure with AminoQuant, the new amino acid analyzer from Hewlett-Packard. Its results meet today's stringent demands for precision and accuracy at a level consistent with the delicacy and significance of your work.

The AminoQuant amino acid analyzer only takes 1 μl of hydrolysate to precisely quantitate primary and secondary amino acids of most importance to you—even down to the sub-picomole level!

In addition to its remarkable resolution and precision, the AminoQuant analyzer makes the process faster and simpler by fully automating derivatization, sample injection, analysis and reporting.

Detailed research and rigorous customer site testing allow us to warrant an exceptional set of performance specifications. And it's not just a promise. At installation, we verify that your system, in fact, meets that set of specifications. The specially designed reagents, column and necessary methodology are all provided with the AminoQuant analyzer.

HP's AminoQuant sets a new standard of performance for today's demanding and challenging era of biochemical research. Make it your standard.

Call toll-free for more information: 1-800-556-1234, ext. 1021. (In CA, 1-800-441-2345, ext. 1021.) Or call the HP office listed in your telephone directory white pages. Ask for the analytical products representative.