HHMI—NIH Research Scholars
at the National Institutes of Health

The Howard Hughes Medical Institute (HHMI) and the National Institutes of Health announce that applications will be accepted for the fourth class (1988-1989) of Research Scholars to start in the summer of 1988. HHMI-NIH scholars are selected from medical schools, usually after the first two years, for a year of laboratory research at the NIH in Bethesda. Scholars must be United States citizens or permanent residents attending medical school in the United States or Puerto Rico. They will be paid as employees of HHMI and housed on the NIH campus. Applications must be received by January 15, 1988. Candidates will be notified of the results by April 1, 1988.

Application kits and brochures have been mailed to the deans' offices of all medical schools. Additional kits and brochures can be obtained from:

Howard Hughes Medical Institute
1 Cloister Court
Bethesda, Maryland 20814-1460
(301) 951-6700

HHMI is an Equal Opportunity Employer.
**Personnel Placement**

**POSITIONS WANTED**


Ph.D. Cytogeneticist. Board-certified in clinical cytogenetics with good experience in cancer cytogenetics and molecular diagnosis of cancer. Seeking a research-oriented position in a hospital or medical school. Box 172, SCIENCE.

Protein Biochemist. Research associate, 1981; 17 years of experience in industrial and basic research. Enzyme glycoprotein, membrane protein, and antibody purification and characterization and assocation, membrane recombination. Seeks research/academic industrial position in Canada. Box 161, SCIENCE.

**ANIMAL PHYSIOLOGY**

The Biology Department of George Mason University is seeking applicants for a tenure-track position to begin 1 September 1988. Major teaching responsibilities will be undergraduate courses in animal physiology. The applicant should have a research interest in an area such as aquatic toxicology or environmental physiology that will contribute to the Ph.D. program in Environmental Biology. Anticipated rank is at the assistant professor level. Candidates should have a Ph.D. by 1 September 1988. Send curriculum vitae, names of three references, and a statement of research interests by 15 January 1988 to: Chairperson, Physiology Search Committee, Department of Biology, George Mason University, Fairfax, VA 22030. George Mason is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR**

We are recruiting for a molecular biologist with interest in connective tissue regulation. Professors degree (M.D., Ph.D., or equivalent) and 2 years of postdoctoral research training required. Interested applicants should contact: Department of Medicine, University of Tennessee, Memphis, 956 Court Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Opportunity Employer.

**WASHINGTON UNIVERSITY**

**DEPARTMENT OF PHARMACOLOGY**

Seeking an outstanding scientist for a tenure-track ASSISTANT PROFESSOR position. The individual must be capable of developing a strong, independent research program which will complement existing programs in cellular and neurobiology. Send curriculum vitae and a summary of research interests and plans to: R. M. Johnson, Jr., Department of Pharmacology, Washington University Medical School, 660 South Euclid Avenue, St. Louis, MO 63110. Washington University is an Equal Opportunity Employer.

**ASSISTANT PROFESSOR—Cell—molecular biology.** Tenure-track, to start September 1988. Ph.D., vigorous research program including sponsoring of Ph.D. students, commitment to undergraduate teaching, required. Experience helpful. Open until filled, first screening by 2 January 1988. Send cover letter and curriculum vitae to: Dr. Sidney L. Beck, Chair, Department of Biological Sciences, DePaul University, Chicago, IL 60614.

**ASSISTANT PROFESSOR OF BIOLOGY**

Tenure-track position, to complement instruction in microbiology or immunology and develop a viable research program in such areas as immunology, microbial genetics, enzyme chemistry. Appointment effective 1 September 1988. Send application, curriculum vitae, and names, addresses, and telephone numbers of at least three references to: Dr. F. Schwalm, Department of Biology, Texas Woman’s University, F.O. Box 2397, Denton, TX 76204. Screening of applications will begin 21 December 1987 and continue until position is filled. Texas Woman’s University is an Equal Opportunity Employer.

**POSITIONS OPEN**

**THE UNIVERSITY OF TEXAS AT DALLAS**

**ASSISTANT PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY**

The Biology Programs of the University of Texas at Dallas invites applications for a tenure-track position at the assistant professor level beginning 1 September 1988. While the area of specialization is open, applicants should be actively engaged in the area of BIOCHEMISTRY, MOLECULAR, OR CELLULAR BIOLOGY. Candidates should have at least 2 years of postdoctoral experience and show evidence of the development of a vigorous and independent research program with the capability of obtaining external support. The Biology department is well-equipped, and has 12 faculty members. The applicant will be expected to teach a portion of the graduate course in biochemistry, preferably the nucleic acids section, and an undergraduate introduction to biochemistry. Send curriculum vitae (indication of sex and ethnicity for Affirmative Action statistical purposes is requested but not required), a short description of research plans, and names of three or more references to: Academic Search #283 The University of Texas at Dallas Box 3803, Richardson, TX 75083—0688

Applications should be received by 31 January 1988. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR DEPARTMENT OF MICROBIOLOGY**

The University of Alabama at Birmingham invites applications for a tenure-track position in the area of viral crystallography. Applicants should have a strong background in biology and chemistry, and demonstrated experience in crystallographic studies of animal viruses. Submit curriculum vitae, a summary of research interests, and the names and addresses of three references to: Dr. Kenneth J. Rose, Chairman, Department of Microbiology, University of Alabama at Birmingham, Birmingham, AL 35294.

The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR—TENURE TRACK**

The Department of Biological Sciences of the University of Missouri is searching for a young, energetic, and productive professor to join an expanding group of environmental and evolutionary biologists for 1 September 1988. This person would study the direct and/or indirect mechanisms of toxins in natural ecosystems. The research may include the study of plant, animal, or microbial systems, using modern methods to answer ecological questions. Ph.D. required and postdoctoral experience desirable. The successful candidate will be expected to conduct a vigorous, extramurally funded research program, train graduate students, and teach both at the graduate and an undergraduate course. Applicants should send curriculum vitae, a description of their research interests and goals, and three letters of recommendation by 15 January 1988 to: Dr. J. Robie Vestal, Chairman, Ecological Toxicologist Search Committee, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221.

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

**ASSISTANT RESEARCH SCIENTIST.** Candidate with M.S. or Ph.D. in biochemistry and minimum of 2 years of experience in biochemistry essential with HPLC and GC experience required. Will participate in research program of the director and his children. Please send curriculum vitae and names of three references to: Dr. Selma Snyderman, NTU Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer M/F.

**positions open**

Albert Einstein College, The Department of Neurosciences seeks investigators for a position at the ASSISTANT PROFESSOR level in molecular neurobiology. Preference will be given to individuals with expertise in molecular biology or cellular neurobiology. A brief description of research interests and names of three references to: Dr. Michael V. Bennett, Chairman, Department of Neurosciences, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

**THE UNIVERSITY OF TEXAS AT DALLAS**

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The Biology Programs of the University of Texas at Dallas invites applications for a tenure-track position at the assistant professor level beginning 1 September 1988. While the area of specialization is open, applicants should be actively engaged in the area of BIOCHEMISTRY, MOLECULAR, OR CELLULAR BIOLOGY. Candidates should have at least 2 years of postdoctoral experience and show evidence of the development of a vigorous and independent research program with the capability of obtaining external support. The Biology department is well-equipped, and has 12 faculty members. The applicant will be expected to teach a portion of the graduate course in biochemistry, preferably the nucleic acids section, and an undergraduate introduction to biochemistry. Send curriculum vitae (indication of sex and ethnicity for Affirmative Action statistical purposes is requested but not required), a short description of research plans, and names of three or more references to: Academic Search #283 The University of Texas at Dallas Box 3803, Richardson, TX 75083—0688

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ASSISTANT PROFESSOR OF PHYSIOLOGY

The Department of Physiology and Biophysics of the University of Louisville School of Medicine invites applications for a tenure-track assistant professor position. An applicant should have a Ph.D. or M.D., degree, 2 to 3 years of postdoctoral research training, and expertise in cardiovascular physiology. Preference will be given to applicants whose research focuses on ion channels, excitation-contraction coupling, or other areas of cardiovascular physiology. Applications should be sent to: Dr. John P. Sipkins, Chair, Department of Physiology and Biophysics, University of Louisville School of Medicine, Louisville, KY 40292. An Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY

The Department of Biochemistry at the University of Kentucky College of Medicine invites applications for a tenure-track assistant professor position. Applicants must have a Ph.D. in biochemistry or a related field and must have a strong record of research and teaching. Preference will be given to candidates whose research focuses on lipid metabolism, cellular signaling, or related areas. Applications should be sent to: Dr. Thomas J. Hope, Chair, Department of Biochemistry, University of Kentucky College of Medicine, Lexington, KY 40536. An Equal Opportunity Employer.

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology at the University of Alabama at Birmingham invites applications for a tenure-track assistant professor position. Applicants must have a Ph.D. in pharmacology or a related field and must have a strong record of research and teaching. Preference will be given to candidates whose research focuses on drug discovery, pharmacokinetics, or related areas. Applications should be sent to: Dr. James E. Miller, Chair, Department of Pharmacology, University of Alabama at Birmingham, Birmingham, AL 35294. An Equal Opportunity Employer.
Wyeth-Ayerst Laboratories, one of the world's largest and most respected pharmaceutical companies, has an immediate opening for the Department Head in its Molecular Virology department in Radnor, an exceptional suburb of Philadelphia. The position requires ten years experience in molecular biology and virology research in a pharmaceutical environment, Ph.D required.

Responsibilities of this position include the initiation, design, management and direction of research projects, specifically relating to vaccines and other biological product development. You will represent your department at meetings and scientific conferences, prepare written reports and supervise new ideas and procedures.

Wyeth-Ayerst offers a competitive salary and a comprehensive benefit plan. Qualified applicants should send their resume and salary history in confidence to: Position 204, Personnel Manager, Wyeth-Ayerst Laboratories, P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer, M/F/H/V responses encouraged.

Wyeth Laboratories

Biochemist/Molecular Biologist

The Agricultural Research Division of American Cyanamid Company currently has an opening for a biochemist/molecular biologist to join an energetic and growing Molecular and Cellular Biology Group.

This individual should possess an M.S. or B.S. and have extensive laboratory experience. Working knowledge of molecular biological techniques is essential; tissue culture experience and familiarity with protein purification techniques is desirable. The position involves using techniques of molecular biology, such as transfection, RNAse protection, and DNA mobility shift assays to study the regulation of cell division in response to isolated growth factors. This is an excellent opportunity for scientific growth and development, with the opportunity for considerable independence.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, forward your resume, and the names and addresses of three references by 11/1/88 to the Employment Office.

Biochemist/Molecular Biologist

American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, NJ 08540
An Equal Opportunity Employer M/F/H/V

AAAS MASS MEDIA SCIENCE AND ENGINEERING FELLOWS PROGRAM

The American Association for the Advancement of Science (AAAS) invites outstanding students in the natural and social sciences and engineering, preferably those at the graduate level, to apply for the 1988 Mass Media Science and Engineering Fellows Program. Students majoring in English, journalism, or other non-technical fields are not eligible for these fellowships.

Fellows will work as reporters, researchers, production assistants, and script consultants for 10 weeks during the summer at newspapers, news magazines, and radio and television stations across the country. Fellows will have the opportunity to participate in the news making process, to increase their understanding of editorial decision making, and to develop skills in conveying the public a better understanding and appreciation of science and technology.

AAAS pays a $300 weekly stipend and travel expenses. Deadline for receipt of applications is 1 February 1988. Minorities and persons with disabilities are especially encouraged to apply.

For further information and applications, write:
Mass Media Science and Engineering Fellows Program
AAAS
1333 H Street, NW
Washington, D.C. 20005

SENIOR CLINICAL RESEARCH ASSOCIATE

Ophthalmic Medications

Alcon Laboratories is a multinational pharmaceutical company and a recognized industry leader in ophthalmic research. As a result of our continued growth, we are currently seeking an achievement-oriented Senior Clinical Research Associate. You will be working with clinical investigators to initiate and implement clinical studies for ophthalmic medications with responsibilities including the preparation of clinical protocols, clinical monitoring summaries and FDA submissions.

Minimum qualifications include a Ph.D. or MS in Physiology, Pharmacology, Chemistry or related field and 5 or more years clinical research experience involving drug development. Excellent interpersonal skills and highly developed technical writing abilities are also necessary.

This position offers an excellent opportunity for professional recognition and growth. We offer a competitive salary plus comprehensive benefits including company paid life/medical/dental/vision insurance and an excellent profit sharing trust plan. If our opportunity sounds like the kind of professional challenge you have been looking for, send your detailed resume with salary history, in strict confidence, to: Sherry Rightmer, Employment Supervisor, Alcon Laboratories, Inc., P.O. Box 6600, Fort Worth, Texas 76115.

Equal Opportunity Employer, M/F/H/V • Principals Only. Please!

Alcon
Develop Desktop Medical Diagnostics

Imagine taking the capabilities of a hospital laboratory right to a patient's bedside. Or into the office of any doctor just about anywhere. New technology from Molecular Devices will do just that, merging microelectronics and biochemistry to create a powerful, portable medical diagnostic system.

The system has the potential to run most clinical assay procedures—even those requiring ultra-high sensitivity. It's designed for ease of use and delivers results in minutes instead of hours.

This Molecular Devices system uses our proprietary biosensor technology, one that promises to eventually allow measurement of molecular and cellular events directly. At that point, medical and pharmaceutical research will once again be revolutionized. Once again by Molecular Devices.

The opportunities for our system are such that DuPont obtained marketing rights for selected markets. So we have the technology, the business strategy, and the challenge to make the following opportunities well worth your investigation:

**Development Biochemist**

Your main responsibilities include antibody screening and purification, conjugation to enzymes and/or other labels. Additionally, you will be responsible for the integration of assays with the biosensor system.

**Development Microbiologist**

You will be responsible for developing immunoassays for a variety of microbial systems including sexually transmitted diseases. You will also be responsible for the screening of appropriate antibodies and/or other reagents for use in conjunction with the biosensor system.

All positions require a PhD or equivalent along with 5 years' demonstrated hands-on experience. Membrane or solid phase assay techniques desired.

Molecular Devices offers qualified candidates the opportunity to work on leading edge technology that combines microelectronics and biochemistry, as well as an excellent compensation and benefits package that includes equity participation. To apply, please send your resume in confidence to Professional Staffing, MOLECULAR DEVICES CORPORATION, 3180 Porter Drive, Palo Alto, CA 94304. An equal opportunity employer.
BOTANIST/PLANT TAXONOMIST. Tenure-track assistant professor (target level) starting fall 1988. Ph.D. required in plant systematics and/or postdoctoral or curatorial experience preferred. Expectations of the position are to teach plant taxonomy, and coordinate a Master's Specialization Studies Program in Systematics and research, to curate the Travis E. Brooks' Regional Herbarium and develop an active research program. Applicants should send curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, and three letters of reference to: Dr. C. T. Train, Chairman, Department of Biology, University of Delaware, Newark, DE 19716. The University of Delaware is an Equal Opportunity/Affirmative Action Employer.

CARDIAC ELECTROPHYSIOLOGIST. A position is available for an M.D., D.V.M., or Ph.D. in physiology, biomedical engineering, or pharmacology to study ventricular fibrillation and defibrillation using a multi-channel cardiac mapping system. The individual will also teach graduate students and cardiology fellows to use this research technique. Rank, departmental affiliation and salary depend on education and experience. Send curriculum vitae to: Dr. Raymond E. Ideker, Duke University Medical Center, Box 3340, Durham, NC 27710. Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGIST—The Institute for Environmental Medicine of the University of Pennsylvania seeks a cell biologist for appointment as assistant professor. Successful candidate will establish an independent research program and supervise a core electron microscopy laboratory. Research area of special interest include lipid-protein interactions, endotoxins, secretion, and epithelial cell differentiation. Initial appointment will be on the assistant professor level with an expectation to rise to associate or full professor. Guaranteed annual salary will be competitive with research accomplishments. Interested candidates should send curriculum vitae, letter of application, and the names of three references to: Cell Biology Search Committee, c/o Maureen Dorean, Executive Assistant, Institute for Environmental Medicine, University of Pennsylvania, 14 John Morgan Building, 36th Street and Hamilton Walk, Philadelphia, PA 19104-6008. Equal Opportunity/Affirmative Action Employer.

CHAIR—Department of Entomology and Applied Ecology—Applications are invited for Professor and Chair of the Department of Entomology and Applied Ecology, University of Delaware. We seek candidates who will continue to provide superior achievement in research and who will develop and coordinate a graduate program in insect ecology and taxonomy. Terminal degree should be Ph.D., with at least three years postdoctoral experience. Salary and fringe benefits are competitive. Committed to academic excellence, the University of Delaware is a mid-sized, highly selective, private institution with great access to museums and other research facilities. The position is available immediately. Send full curriculum vitae, including complete funding and publication record, and names of five references by 15 January 1988. Send full curriculum vitae, including complete funding and publication record, and names of five references to: Dr. Donald R. Ferraro, Chairman of the Search Committee, Department of Botany, Iowa State University, Ames, IA 50011. Women, minorities and members of other protected groups are strongly encouraged to apply. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

CIRCADIAN BIOLOGY UNIVERSITY OF VIRGINIA The Department of Biology at the University of Virginia is forming a research group to investigate basic mechanisms regulating circadian rhythms and circannual cycles in animal and plant species. This research will include circadian rhythms in a variety of animal, plant and micro-organism species. The group will be housed in a new facility currently under construction. Researchers will coordinate their studies with the Virginia Aquarium to develop an interdisciplinary program. The Department of Biology invites applications and nominations for a full professor position who can assume duties beginning 1 July 1988. The successful applicant will be expected to establish an active, externally funded research program. The position is a 9-month appointment, renewable, and includes a competitive salary and startup funds for initial research. Send curriculum vitae, a summary of research accomplishments and names of three references to: Professor H. B. Friedrich, Chair, Search Committee, Department of Chemistry, University of Virginia, P.O. Box 4432, Charlottesville, VA 22904. Equal Opportunity/Affirmative Action Employer, and is committed to increasing the participation by women and minorities on its faculty.


CHAIRPERSON DEPARTMENT OF BOTANY IOWA STATE UNIVERSITY The Department of Botany at Iowa State University invites nominations, from outstanding scholars, to lead this department of 19 faculty with broad interests in research and teaching concentrations in plant systematics, plant physiology, cytology, and ecology. We are looking for a person with leadership and administrative skills, an outstanding research record, and a commitment to vigorous support of research and education. The successful candidate will have the opportunity to play a major role in the continuing development of this research-oriented department. Closing date for applications is 20 January 1988, or until the position is filled. Applicants should send curriculum vitae, a list of publications, a statement of personal perspective on research and teaching at a major university, and the names of five references to: Dr. Donald R. Ferrar, Chairman of the Search Committee, Department of Botany, Iowa State University, Ames, IA 50011. Women, minorities and members of other protected groups are strongly encouraged to apply. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

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GENE-TRAK Systems, a joint venture between Integrated Genetics and AMOCO, is setting the pace as the leader in the commercialization of DNA probe-based products for diagnosing infectious diseases. We have an immediate need to fill the following positions:

**DEVELOPMENT MANAGER**

Position available to lead the Food Diagnostics Group in developing many assays. Will be responsible for product development and coordination with Manufacturing, QC, Marketing and Regulatory Affairs. Requires Ph. D. in food science or molecular biology. Some experience in industrial experience. Candidates must have food microbiology experience and hybridization assay background preferred.

**PROJECT LEADERS**

Positions exist for candidates proficient in assay development. Will be responsible for developing rapid nucleic acid based assays for the diagnosis of clinical and food tests.

**MOLECULAR BIOLOGISTS**

Several positions available for developing DNA probe diagnostics. Candidates must have a BS/ MS degree and postgraduate employment with experience in nucleic acid preparation and manipulation. Knowledge of infectious diseases is a plus.

GENE-TRAK Systems, located in the suburbs of Boston, offers an attractive compensation and benefits package, which includes equity participation. For immediate consideration, send your resume to: Brian Mazar, Human Resource Manager, Dept. SG 11-20, GENE-TRAK Systems, 45 New York Avenue, Framingham, MA 01701.

**Improving the quality of life is our business.**

Glaxo's Research Team is seeking a Senior Systems Analyst to work closely with scientists to develop online applications. The qualified candidate will use RS/1 and relational database expertise to develop user-friendly systems for the departments of Pharmacology, Biochemistry and Chemotherapy.

Background should include an advanced degree and 6-10 years' programming experience. Candidate should have a background in life sciences, strong analytical skills, programming proficiency, and VAX VMS experience. Good interpersonal and communications skills are required. RS/1, ORACLE, and C experience as well as pharmaceutical industry experience are desirable. Life Scientists with requisite analytical skills and computer science background are encouraged to apply.

Glaxo offers highly competitive salaries, outstanding advancement potential, and superior benefits, including a complete recreation and fitness program. For prompt consideration, please send your resume, including salary history, to: Department 87-134E, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. An Equal Opportunity Employer M/F/H/V. (No phone calls, please.) No private agency referrals, please.

Glaxo Inc.
Working Toward a Healthier World
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IMMUNEX CORPORATION, a Seattle based biotechnology company in the forefront of research and development in immune regulation, has a number of positions open as a result of an expansion in our research activities. We are recruiting:

**Staff Scientists, Post Doctoral Fellows and Research Assistants**

with experience and interest in the following areas:

### Cytokine Biology

Researchers at all levels are needed for development of small animal models of human diseases. Particular emphasis will be placed on **in vivo** assessment of recombinant cytokine activity in models of hematopoiesis, autoimmunity and immune deficiency.

### Cytokine Receptors

Individuals at all levels are needed for studies of cytokine receptor molecular biology and biochemistry. Expertise in exploring structure/function relationships by **in vitro** mutagenesis is welcomed.

### Protease Function

Applicants at all levels are required for assay development, biological assessment, cloning and expression of therapeutically important mammalian and microbial proteases.

### Peptide Synthesis/ Organic Chemistry

Candidates at all levels are sought with interest in using peptide and organic synthesis to design inhibitors of protease action.

### Cytokine Structure-Function: Molecular Modeling

Scientists at all levels are required for exploration of cytokine structure and function by systematic **in vitro** mutagenesis coupled with high resolution x-ray diffraction analysis and molecular modeling.

### Transgenic Animal Research

Positions exist at all levels. Both molecular biologists and developmental biologists/ embryologists are needed.

### Hybridoma Research

A Senior Research Associate position exists for an individual with an M.S. and 3-5 yrs. experience in the generation and characterization of monoclonal antibodies and development of immunogenic assays.

Staff scientists candidates should hold a Ph.D./M.D. degree and possess significant post-doctoral experience demonstrating independent research skill and creativity and will have demonstrated an ability to work in a collaborative environment. Successful candidates for post-doctoral fellowship positions should have completed a Ph.D./M.D. degree and no more than two years post-doctoral training. Research assistants should possess a B.S./B.A. degree with a major in a life science discipline and 3-5 years experience.

Immunex Corporation offers excellent opportunity for career development as well as competitive salaries and an excellent benefits package. For consideration, please submit c.v., names of three references, and a list of publications to:

**Immunex Corporation**
**Human Resources Director**
**51 University Street**
**Seattle, WA 98101**

Immunex is an equal opportunity employer.

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BIO-RAD LABORATORIES is a worldwide leader in the fields of clinical diagnostics, chemical separations and analytical instrumentation. Our Clinical Diagnostics Division is continuing to expand its Research Group to undertake the development of new immunoassay systems for the 1990s. We are looking for motivated, goal-oriented professionals with expertise in the following fields:

### CANCER IMMUNOLOGY

This challenging opportunity requires a background in Immunology or Biochemistry and experience in the isolation and characterization of tumor associated antigens.

### MICROBIOLOGY

This position requires experience in the isolation, characterization and detection of infectious disease antigens in clinical specimens. A MS/PhD in Microbiology or equivalent experience is required.

### HYBRIDOMA DEVELOPMENT

Hands-on expert with at least 3 years' hybridoma experience, preferably in an industrial cell culture laboratory.

### INSTRUMENTATION ENGINEERING

Five or more years' experience as a senior project engineer coordinating both mechanical and electronic engineering of instruments. Demonstrated ability to work in a multidisciplinary environment. Strong communication skills are required.

### IMMUNOASSAY DEVELOPMENT

A background in automated immunoassay desirable. Strong communication and leadership skills essential. Requires an MS/PhD in microbiology or biochemistry.

### RESEARCH AND DEVELOPMENT MANAGER

Five or more years' experience in diagnostics with at least 3 years of project management. Excellent people skills and the demonstrated ability to manage multidisciplinary teams are essential.

In these positions you will be working in a multidisciplinary environment where you can enjoy the freedom to explore new technologies. Career growth and recognition of accomplishment are offered. Interaction with the scientific community through publication and meeting attendance is encouraged.

Be part of the team in our new facilities overlooking the Bay in Hercules, California.

For consideration, please submit resume to Bio-Rad Laboratories, Human Resources, Dept. #293-1120S, 1000 Alfred Nobel Drive, Hercules, CA 94547. EOE.
positions open

ecosystem biologist/terrestrial ecologist

The Department of General Science at Oregon State University invites applications for a full-time (fixed term) appointment at the assistant professor (senior research level) beginning as soon as February 1988. Applicants must have completed interdisciplinary scientific with bionomic, ecological and physical processes and a desire to focus on the ecological effects of global climate change. Postdoctoral experience is desirable. Closing date is 1 January 1988. Send letter of application, curriculum vitae, and names, addresses, and telephone numbers of four references to: Dr. John A. Workman, Department of General Science, Oregon State University, Corvallis, OR 97331.

environmental health supervisor

Indiana University of Pennsylvania invites applications for a tenure-track position at the assistant/associate professor level to begin September 1988.

Qualification: a Ph.D. in environmental health-related field and professional field experience in environmental health. Certification by American Academy of Sanitarians or corresponding professional board is desirable.

Duties: Primary responsibilities will be to direct an undergraduate environmental health program that emphasizes education in environmental health, to coordinate activities in environmental health and environmental protection, advise majors within the program, work closely with various health agencies and other individuals who have internship sites, prepare and coordinate application for accreditation of program; would also be expected to participate in general departmental offerings and conduct research in area of expertise. Department is committed to quality teaching and research.

Send letter of application, resume, transcripts, and three letters of recommendation to: Dr. Frank Phyes, Search Committee Chair, Biology Department, Indiana University of Pennsylvania, Indiana, PA 15732-3572. Deadline for receipt of applications is 15 January 1988. Minority applicants are encouraged to apply. IUP is an Affirmative Action/Equal Opportunity Employer.

enzymologist

Applications are invited for a tenure-track faculty position at the assistant or associate professor level. We are seeking an applicant with a primary interest in enzymology. In addition to protein sequencing and oligonucleotide synthesis facilities, the Department of Biochemistry has instrumentation for circular dichroism, lifetime and steady-state fluorescence; high-performance liquid chromatography; and scanning electron microscopy. All current faculty members have active, funded research programs. Applicants should send curriculum vitae, a brief statement of research interests, and three references to: Dr. Mark Olson, Search Committee, Department of Biochemistry, The University of Montana, Missoula, MT 59812-9000. Closing date: 15 January 1988. Equal Opportunity Employer, MIFUHV.

fACULTY POSITION

DEPARTMENT OF ENGINEERING AND POLICY
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
WASHINGTON UNIVERSITY, ST. LOUIS

The Department of Engineering and Policy at Washington University invites applications for an assistant professorship and one associate professorship for a tenure-track position, starting in fall 1988. A doctoral degree in engineering or physical sciences in an area relevant to the research field is required. Teaching duties included in undergraduate and graduate courses, preparation of course materials, and supervision of teaching assistants. Responsibilities include teaching undergraduate and graduate courses, supervising student research, and developing and maintaining an active, externally supported, research program. Specialization of research areas in the department include energy, environment, international development, public health, and science and technology policy at the national and international levels. Emerging areas include strategic management of technology and technological innovation, R&D management, and technology adaptation. Applicants who qualify for a senior-level appointment as the result of academic or recent industrial experience or government service and who are available to begin teaching and research will be accepted until the position is filled. They should include the names, addresses, and telephone numbers of three references, and be sent to: Dr. William P. Darby, Chairman, Department of Engineering and Policy, Campus Box 1106, Washington University, One Brookings Drive, St. Louis, MO 63130. Washington University is an Affirmative Action/Equal Opportunity Employer.

facultY position

DEPARTMENT OF MOLECULAR GENETICS AND CELL BIOLOGY

The Department of Molecular Genetics and Cell Biology at the University of Chicago is seeking candidates for tenure-track appointments in the areas of cell biology, developmental genetics, and virology. We are particularly interested in candidates at assistant professor level who have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. Please send curriculum vitae, bibliography, a statement of past and future research interests, and the names of three references to: Dr. Edwin Taylor, Department of Biochemistry, The University of Chicago, 920 East 58th Street, Chicago, IL 60637. Deadline: 11 December 1987. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

As part of its continuing reorganization and modernization, the Department of Anatomical Sciences and Neurobiology at the University of Louisville is recruiting for several new FACULTY AND POSTDOCTORAL POSITIONS in developmental neuroscience. Individuals whose research utilizes cellular and molecular approaches are encouraged to apply. Faculty members will be expected to participate in teaching neuro or microanatomy, and should have evidence of a vigorous research program and a track record of publication with qualifications and experience. Four letters of recommendation are required: Contact: Dr. Fred J. Roisen, Science Hall, University of Louisville, Department of Cell and Molecular Neurobiology, University of Louisville, School of Medicine, Louisville, KY 40292 by 15 December 1987. The University of Louisville is an Equal Opportunity/ Affirmative Action Employer.

facultY position

DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry at the University of Michigan, Ann Arbor, invites applications for an assistant professorship. Applications from women and minority candidates are particularly encouraged. Applicants should submit: curriculum vitae, a brief description of research interest, and names and addresses of three references, by 1 February 1988, to: Dr. Barbara L. Held, Search Committee Chair, Department of Biochemistry, University of Michigan, Ann Arbor, MI 48109. University of Michigan is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

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POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY OF REGULATED SECRETION

Postdoctoral (staff fellowship) position is available for a recent Ph.D., molecular biologist interested in studying receptor mediated regulation of gene expression in secretory systems. Applicants should have a good background in eukaryotic recombinant DNA techniques. Our main interest is in cloning and sequencing of gene products whose expression is regulated during the secretion process by the activation of adrenergic and cholinergic receptors. Salary: $20,000 to 28,000 per year, depending on experience. Applicants should submit their curriculum vitae, bibliography and the names of three references to Dr. Eleni Kousvelari, Clinical Investigations Section, National Institute of Dental Research, National Institutes of Health, Building 10, Room 1A-19, 9000 Rockville Pike, Bethesda, MD 20892.

AN EQUAL OPPORTUNITY EMPLOYER

The RAND Graduate School (RGS)

Invites applications for its doctoral degree program in policy analysis. Deadline for submitting applications for 1988-1989 is February 1, 1988. RGS, which is fully accredited by the Western Association of Schools and Colleges, is an integral part of The RAND Corporation. Its curriculum consists of multidisciplinary course work, combined with on-the-job training (OJT), leading to the dissertation and award of the Ph.D. in Policy Analysis. Students receive OJT support equivalent to doctoral fellowships. Fellowships are also available for applicants with special interests in health policy or Soviet international behavior. A master’s degree, or equivalent post-bachelor’s degree training and experience, is required for admission.

For additional information send for bulletin:
The RAND Graduate School, 1700 Main Street, P.O. Box 2138, Santa Monica, CA 90406-2138, or telephone: 213-393-0411.

The RAND Corporation is an Equal Opportunity/Affirmative Action employer

Scientist
Molecular Oncology/Tumor Biology
Genentech, Inc.

The Department of Pharmacological Sciences has an immediate opening for an individual with a strong background in molecular biology and oncology, and an interest in studying basic mechanisms of tumor progression in vivo.

Qualified applicants should possess the following:
- PhD in Molecular and Cellular Biology with 3-5 years of postdoctoral experience.
- Research background in one or more of the following areas: growth factor-receptor interactions and signal transduction; the molecular biology of transformation or mechanisms controlling cellular proliferation; mechanisms of resistance of tumor cells to chemotherapeutic agents or components of the immune system.

- Experience in the use of murine tumor models will be considered an advantage.

Please send your CV and letter of interest to: Dr. Michael Shepard, Department of Pharmacological Sciences, Genentech, Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080. An equal opportunity employer.

Research Scientists
Experimental Immunology

Amgen, a leading biotechnology company with a broad technical base, is seeking Research Scientists. Qualified candidates will have a Ph.D or M.D. degree and at least two years of postdoctoral or equivalent experience involving a range of immunological methodologies. Positions are also available for experienced Research Associates having a Master’s degree and a strong background in relevant research. Amgen currently has several major programs addressing the biological roles of Human Lymphokines and Cytokines. Our advances in this area have made us a leader in the field of Biological Response Modifiers.

Amgen’s research efforts involve the identification, isolation, development and application of new medical therapeutics utilizing recombinant DNA and hybridoma technologies.

Amgen offers a stimulating research environment and maintains a close association with academic institutions through research collaborations and its Scientific Advisory Board.

Amgen offers an excellent salary and benefits package as well as equity participation. Applications including a curriculum vitae and the names of three references should be sent to:

Recruitment, Dept. #25
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer
**POSITIONS OPEN**

**FACULTY POSITION IN VERTEBRATE PHYSIOLOGY**

Biology, vertebrate physiology, tenured, assistant professor. Must have Ph.D. by 1 September 1988. Teaching areas include human anatomy and physiology, vertebrate physiology, and toxicology; coordination of A&P labs. Applicants must have teaching experience, laboratory and graduate school teaching experience, and a productive research program. Individuals are expected to establish and maintain a productive research program and to direct graduate student training at master's level. Deadline for applications is 10 January 1988. For further information, contact: Dr. Caroline P. Benjamin, Chair, Search and Screen Committee, Department of Biology, Northwestern State University, Natchitoches, LA 71457.

**FACULTY POSITIONS IN BIOCHEMISTRY/MOLECULAR BIOLOGY**

Applications are invited for two positions as assistant professor. Candidates must have a Ph.D., postdoctoral experience, and a plan for an independent research program. Positions involve teaching at undergraduate and graduate levels. Send curriculum vitae and references to: Chair, Search Committee, Department of Biochemistry, The University of Texas at Austin, Houston, TX 77204. An Equal Opportunity/Affirmative Action Employer.

**GENETICS AND DEVELOPMENTAL BIOLOGY**

The Biology Department seeks candidates for a position at the assistant professor level, beginning in Fall 1988. The position involves teaching core courses in genetics and, as well, as participate in a team-taught introductory biology course. Send curriculum vitae, statement of research activity, and three letters of recommendation to: Professor John L. Howland, Department of Biology, Bowdoin College, Brunswick, ME 04011 by 14 December 1987. Bowdoin College is committed to Equal Opportunity/Affirmative Action.

**FACULTY POSITIONS IN NEUROBIOLOGY**

The Department of Biological Sciences, Purdue University, invites applications for two tenure-track faculty appointments in general area of neurobiology. Candidates in the following areas of specialty are invited to apply: cellular neuroendocrinology, developmental neurobiology, electrophysiology, genetic neurobiology, immunoneurobiology, pharmacology, molecular neurobiology, neurochemistry, neurocytology, or video physiology. Individuals working at the cellular or molecular level using modern techniques other than electrophysiology are also welcome. Although preference will be given to individuals who do not hold assistant professor level, will consider applications at senior levels for those with outstanding credentials. Candidates must have a strong research record and are expected to develop rigorous research program and to engage in teaching physiology or neurobiology. Send curriculum vitae, list of publications, statement of research interests and names of at least three references by 1 January 1988 to: Dr. William L. Pak, Convener, Neurobiology Search Committee, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907. Equal Opportunity/Affirmative Action Employer.

**FULL OR ASSOCIATE PROFESSOR (TENURED-TRACK) IN HEALTH SCIENCE**

Available September 1988. Serve as Chair of the Health Science Department with administrative duties such as class scheduling, staffing, personnel evaluation, and program coordination. In addition, teach graduate and undergraduate courses in health science, engage in scholarly activities, advise students, serve on committees, and participate in departmental and university activities. Salary range: $34,740 to $52,968 for the academic year, depending on qualifications and experience. A doctorate in public health, public health administration, or education with appropriate experience is required. Applications will be accepted until the position is filled but will not close prior to 1 March 1988. Send application, curriculum vitae, three letters of recommendation, and all transcripts to: Sandra K. Cross, Ed.D., Chair, Search Committee Department of Health Science, Kansas State University, 550 University Parkway, San Bernardino, CA 92407. An Equal Opportunity/Affirmative Action, Section 504 Title IX Employer.

**Gynecologist Oncologist**

Entry-level position for Board-eligible or Board-certified candidate, who has completed a certified program in gynecology/oncology, with a special interest in molecular biology. A strong commitment to teaching, clinical care and research should exist. Interested individuals are invited to submit curriculum vitae to: Kenneth D. Hatch, M.D., Director, Division GYN/Oncology University of Alabama Medical Center Cancer Center and Alabama Hospital Birmingham, AL 35294. An Affirmative Action/Equal Opportunity Employer.

**IMMUNOLOGIST**

The Biology Department invites applications for a tenured-track position in immunology beginning 1 September 1988. Candidates should have at least 2 years of postdoctoral experience; teaching experience is also desirable. He/she will be expected to develop and maintain a productive research program and pursue funding for it. Teaching responsibilities include participation in the Biology Major's and/or non-major introductory courses, undergraduate and graduate courses in immunology, and the teaching of M.S. and Ph.D. students. Applicants should submit: curriculum vitae, a list of publications or research proposal, a statement of current and projected research and teaching interests, and arrange to have three letters of recommendation sent to: Dr. Robert Baot, Biology Department, Cleveland State University, East 19th Avenue, Cleveland, OH 44115 by 1 February 1988. Cleveland State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from qualified minority groups and women.

**IMMUINOLOGIST/TIVROLOGIST**

OHIO UNIVERSITY: The Department of Zoological and Biomedical Sciences seeks to fill a tenure-track position for a research-oriented assistant or associate professor to begin 1 September 1988. The applicant must have a Ph.D. and postdoctoral experience. Responsibilities include teaching courses in vertebrate biology, coordination of two immunology/cell culture technology courses for research laboratory. Excellent salary and benefits. Send resume, description of teaching and research interests, and a list of publications, to: Dr. Malcolm Modrzewski, Search Committee Coordinator, Department of Zoological and Biomedical Sciences, The Ohio State University, Athens, OH 45701. An Equal Opportunity Employer.

**IMMUNOLOGY/CYTOGENETIC TECHNOLOGISTS, INFECTIOUS DISEASES**

Beth Israel Medical Center, a major Manhattan teaching hospital, seeks several positions as Immunology/Cytogenetic Technologists and as Infectious Diseases Technologists. Experience with two immunology/cell culture technologies for research laboratory, EIA, RIA, IFA, and cell culture. Excellent salary and benefits. Human Resources Department, 160 East 29 Street, New York, NY 10022. An Equal Opportunity Employer.

**INSTRUCTOR**

Design and conduct experiments on the development of gonadal function in neonatal animals. Experimental protocols include cell culture of Ledi, Leydig, granulosab and theca interna cells. Experience in molecular biology techniques, especially for expression of gonadal growth factors, is essential. Must have a Ph.D. in chemistry or biology and postdoctoral training in reproductive endocrinology. Fourty hours per week. $22,000 per year for a tenure-track position. Send resume to: Dr. R. Pfeffer, Department of Biology, University of Tennessee, East Nashville Avenue, Memphis, TN 38104. Attention: Mr. Jack Hilsheim.

**INVERTEBRATE ZOOLOGIST**

Biology Department of Ithaca College seeks a Ph.D. for a tenure-eligible position. The position is available starting August 1988, to teach invertebrate zoology and general biology and develop a research program involving undergraduates. The department already has a strong general zoology and a strong study of fishes and invertebrates in and is seeking applicants in other areas of expertise. Send curriculum vitae and three letters of recommendation to: Director of General Zoology, Biology Department, Florida International University, University Park, Miami, FL 33199. Florida International University is a member of the State University System of Florida, and is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**IMMUNOLOGIST**

The Biology Department invites applications for a full-time tenure-earning position at the assistant professor level in immunology/aquatic geochemistry. The successful applicant will be expected to teach at the undergraduate and graduate levels, and must demonstrate an ability to conduct high quality teaching, and the potential to establish a vigorous research program. A completed Ph.D. is required. The department is well-equipped, and includes an A.R.L. Microprobe, ICP's, x-ray diffraction, etc. Deadline for applications: December 1987. The position will begin in January 1988. Send a brief resume, brief description of teaching and research interests, transcripts, and three letters of recommendation to: Dr. Florentin M. Zlotlucki, Department of Geology, Florida International University, University Park, Miami, FL 33199. Florida International University is a member of the State University System of Florida, and is an Affirmative Action/Equal Opportunity Employer.

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CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS
Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for two one-year Congressional Science and Engineering Fellowships. It will offer for the period beginning 1 September 1988. The Fellowship Program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policy-making processes within the Congress. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological, or behavioral science or any field of engineering. The term "science" is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. The AAAS runs a year-long educational program for both its own Congressional Science and Engineering Fellows and those selected by the participating societies. Addresses of all participating societies are available from the address listed below.

The 1987-88 AAAS Congressional Science and Engineering Fellows will receive a stipend of $26,500; an additional $1,500 is available for relocation expenses and travel in connection with the Program.

In order to obtain detailed information on the Program and specific application requirements, write:

Congressional Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW
Washington, DC 20005

The deadline for submission of application materials is 15 January 1988. The award will be announced around 1 May 1988.

Biotechnology Research and Development

Pandex, a division of Baxter Healthcare Corporation is developing state-of-the-art products for medical diagnostics.

We are expanding our R&D group and are seeking creative Ph.D.-level scientists interested in positions that offer challenging opportunities for professional career growth. Our Immunodiagnostic Department currently has key positions available in Assay Development. The successful candidates will have 2-4 years postdoctoral experience in immunoassay development, with a strong background in animal/human virology, immunology, biochemistry or related field and have a desire to perform bench research. Industrial product development experience in infectious disease antigens or antibodies is preferred. Excellent written and oral communication skills are essential.

If you would like to be considered, please send your resume in confidence to: Anne McNicholl, Personnel Director, Baxter Healthcare Corporation, Pandex Division, 909 Orchard Street, Mundelein, IL 60060. We are an equal opportunity employer.

Pandex Division

Baxter

GRADUATE TRAINING PROGRAM IN MOLECULAR AND CELL BIOLOGY

Texas A&M University

Graduate research fellowships are available for an inter-disciplinary molecular and cell biology program (MCBP). Participating departments in the Colleges of Agriculture, Medicine, Science and Veterinary Medicine offer degrees in their respective areas.

Texas A&M has assembled an outstanding faculty studying a number of exciting areas of cell and molecular biology in both eukaryotic and prokaryotic systems. The program is highly interactive with state-of-the-art laboratories and ancillary facilities. The MCBP offers a comprehensive core curriculum including modular courses in molecular and cell biology. More specialized and intensive training is available in techniques for DNA sequencing, plant gene transfer, animal embryo microinjection and implantation, hybridomas and electron microscopy. Additional components of the graduate program include weekly journal clubs, seminar programs, guest lecture series and an annual scientific research conference featuring nationally prominent speakers.

Outstanding students are encouraged to apply for graduate research fellowships with multi-year stipends of approximately $1000 per month. Additional funds are available for travel to scientific meetings, and in special cases, funds will be provided for short training courses off campus.

For additional information, contact:
Director, Molecular and Cell Biology Program, Texas A&M University, P.O. Drawer E6, College Station, TX 77844. Phone: Dr. Terry L. Thomas, (409) 845-0184

Texas A&M University is an equal opportunity employer
SYDNEY, AUSTRALIA

FOUNDRATION

DIRECTOR

For

HEART RESEARCH INSTITUTE

A NEW INSTITUTE FOR THE STUDY OF Atherosclerotic Disease

The Board of Governors wishes to appoint a Foundation Institute Director commencing after July, 1988 and in the interim to advise on its planning.

Expressions of interest in the appointment are invited from scientists strongly motivated to the prevention and alleviation of arteriosclerotic disease through basic research into its causes and mechanisms. The Director is expected to initiate a research programme and recruit the necessary scientific and supporting staff.

The Heart Research Institute is an Australian Bicentennial initiative of the National Heart Foundation of Australia. It is independently governed by its own Board of Directors, but is assured of strong links with the University of Sydney and the Royal Prince Alfred Hospital in whose campus it is to be located. A building has been allocated and provisional plans have been drawn up for its modification to enable the initial employment of some twenty four research scientists plus ancillary staff. The site allows major further development.

The Board recognises that the success of the Institute will depend upon the ability, experience, enthusiasm and scientific renown of the Foundation Director. The Board will negotiate stipend, facilities and other conditions accordingly.

Pending the appointment of the Director, the Board is advises on scientific matters by an international panel named in an appointment available from the undersigned.

Alan W. Conners, M.D., Chairman, Board of Governors, Room 5088, Building 62, Royal Prince Alfred Hospital, Missenden Road, Camperdown NSW 2050, Australia. Fax 37064-1676. Inquiries should be made by December 11, 1987.

POSITIONS OPEN

LABORATORY DIRECTOR

Biotherapeutics Inc., a healthcare service company, contracts with suitable cancer patients to perform laboratory research services designed to develop custom-tailored biotherapeutic options.

With expansion plans for a national network of laboratories, the company is seeking qualified individuals to serve as Laboratory Directors. Candidates should have a proven track record in research with specific expertise in tumor cell biology or cellular immunology. Administrative and managerial experience is preferred. Specific responsibilities will include planning, developing, and administration of the laboratory; and coordination of basic and contract-related research.

Send résumé and salary requirements to:
Personnel Department
Biotherapeutics Inc.
P.O. Box 1676
Franklin, TN 37064-1676

PRIMATE INFORMATION CENTER

The Washington Regional Primate Research Center seeks a MANAGER/RESEARCH LITERATURE ANALYST for the Primate Information Center, an international research-literature indexing service that provides bibliographies on all scientific aspects of primatology from the world's most comprehensive computerized primatological index.

Managerial experience and academic degree in a biological science, e.g., microbiology, physiology, molecular biology, required; advanced degree with experience in such areas as scientific indexing/abstracting, editing, biochemical research with emphasis on primates, and/or computerized records desirable. Send current vitae by 4 December 1987 to:
Douglas M. Bowden, M.D., Associate Director
Regional Primate Research Center SJ-50
University of Washington
Seattle, WA 98195

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

The U.S. Department of Agriculture, Agricultural Research Service, is seeking applicants for two post-doctoral positions, MICROBIOLOGIST/MOLECULAR BIOLOGIST, for the National Animal Disease Center, Brucellosis Research Unit, in Ames, Iowa. The positions are temporary, full-time, not to exceed 1 year.

Responsibilities include the application of recombinant DNA technology and isolation and characterization of Brucella proteins and lipopolysaccharides for use in the development of improved subunit vaccines and diagnostic tests for bovine brucellosis.

Salary is commensurate with experience ($27,172 to $42,341). For program and position information, contact: Dr. George Lambert on 515-239-8204. For information on application procedures/forms, contact: Janie Carr on 301-344-2756. Applications in response to this ad should be marked 8N001. Applications must be received no later than 31 December 1987.

Mail applications to:
Janie Carr, USDA-ARS-PD
Personnel Operations Branch
Northern Section
Building 419, BARC-East
Beltsville, MD 20705

An Equal Opportunity Employer

MOLECULAR BIOLOGISTS/PATHOLOGISTS. Junior and senior tenure-track positions available for research-oriented individuals. Successful applicants must possess the M.D. or Ph.D. degrees, and will be expected to establish independent research programs in areas of extramural support. Teaching responsibilities are modest, and involve both medical and graduate education. Junior candidates must have at least 2 years of post-doctoral research experience, with evidence of outstanding research potential in molecular or cellular biology. Senior candidates must have an established record of research excellence with extramural funding support. Excellent salary, benefits, facilities, together with necessary start-up funds, are available. Individuals should submit curriculum vitae, a statement of professional goals, and the names of three references to: Dr. William F. Wilmoughby, Chairman, Department of Pathology, University of South Carolina, School of Medicine, Columbia, SC 29208. University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

NATIONAL INSTITUTES OF HEALTH

POSTDOCTORAL POSITIONS in the National Institute of Neurological and Communicative Disorders and Stroke, National Institutes of Health, are available immediately for biochemical studies on glycoconjugates and glycolipids in myelinlation, demyelinating diseases, and transmembrane signaling of receptor mediated information. Experience in molecular biology, neural tissue culture or glycolipid biochemistry is desirable. Appointments would be as Intramural Research Training Associates (United States citizens) for persons within 3 years of receiving their doctoral degree and are renewable annually for a maximum of 3 years. Starting salary will be $20,000 per year or higher depending on experience. Interested candidates should send a curriculum vitae and the names of 3 references to: Dr. Richard Quarles and Peter Fishman, Laboratory of Molecular and Cellular Neurobiology, Park Bldg., Room 451, 12420 Parklawn Drive, Rockville, MD 20892. For information on qualifications and benefits, please contact Ms. Janet Cilagge at (301) 496-6334.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Inflammation/Arthritis Research Opportunities

Pfizer Central Research, an industry leader in the area of inflammation/arthritis research, has several opportunities for scientists to contribute to the discovery of new antiinflammatory and antiarthritic drugs. You will join well established and growing teams of scientists in these areas and work in newly constructed and well equipped laboratory facilities. Current therapeutic interests encompass immunological approaches to inflammatory diseases, mechanisms involved in pain production/transmission and innovative manipulations of the arachidonic acid cascade and cyclic nucleotides.

A Ph.D. appropriate postdoctoral training and a record of accomplishment in your research endeavors are required. Appropriate fields of training/experience include biochemistry/molecular biology, cell biology and experimental pathology, especially in the context of research problems in immunology, inflammation and pain/analgesia. Expertise is particularly sought in the following areas: (1) regulation of receptor function or signal transduction/second messenger processes; (2) cellular immunology; (3) in vivo models of acute and chronic inflammation. Demonstrated project management skills and/or previous industrial experience are welcome but not essential.

This position offers an excellent opportunity for professional recognition. We also offer a competitive compensation and benefit package, and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of accomplishments to: Mr. Don Nelson, Manager of Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
GIBCO/BRL...

A DIVISION OF LIFE TECHNOLOGIES, INC., the leading supplier of research products to the Molecular Biology and Cell Biology industries, currently has openings for the following positions:

**Workshop Instructor/Supervisor**

Ph.D. in Molecular Biology with excellent written and verbal communication skills.
- Direct, develop and present workshops and seminars.

**Senior Scientist Positions**

Ph.D. in Microbial Genetics or Physiology with post-doctoral experience in bacterial strain construction.
- Provide scientific leadership for a Molecular Biology Research and Development group.

Ph.D. with 2 years post-doctoral experience and publications in Molecular Biology and Immunoochemistry. Experience with immunoassays and/or nucleic acid detection technologies.
- Develop rapid and simple non-radioactive nucleic acid detection methods.

Ph.D. with at least 2 years post-doctoral training and publications using recombinant DNA methods.
- Apply novel hybridization methods to detection of HPV and other human pathogens.
  - Construct DNA and RNA probes and apply these to non-radioactive detection methods.

Ph.D. in Molecular Biology or related field. Hands on experience with *in situ* hybridization essential. Clinical and/or industrial experience and familiarity with product development process helpful.
- Product development using *in situ* hybridization techniques.

**Scientist Positions**

Ph.D. in Molecular Biology with demonstrated above-average scientific competence.
- Perform product development, improvement on exploratory studies in the area of Molecular Biology. Prepare research plans, design and perform experiments, evaluate and report results.

Ph.D. in Molecular Biology or related field with experience in HPV.
- Provide technical oversight for HPV clinical studies. Prepare manuscripts. Analyze in-house clinical data.

**Lab Technician Positions**

B.S. or B.A. in Biochemistry, Biology, Chemistry or the Health Sciences; M.S. in some positions helpful.
- Independently evaluate, select and apply standard scientific techniques, procedure and criteria, using judgment in adaptations.

We have numerous technician positions available, for more details, feel free to visit our booth.

Please send resume or C.V. to:
Richard L. Hotaling, Jr., Personnel Manager
GIBCO/BRL, a Division of Life Technologies, Inc.
8717 Grovemont Circle, Gaithersburg, MD 20877

An equal opportunity employer, M/F/H/V
NATIONAL SCIENCE FOUNDATION

NSF's Division of Biotic Systems and Resources is seeking qualified applicants for the following positions: Program Director, Population Biology and Physiological Ecology; Program Director, Ecosystem Studies Program; and Program Director or Associate Program Director, Systematic Biology Program. The incumbents to these positions will administer a program for basic research grant support, including advising applicants, reviewing proposals, and other administrative duties. The positions will be filled on rotational/temporary basis and are excepted from the competitive civil service. The salary range for the Program Director position is from $45,763 to $72,500* (*current statutory limit) and for the Associate Program Director, $38,727 to $65,000. The rotator candidate receives a leave of absence from his/her employer and is set in accordance with NSF's Rotator Program. Applicants should have a Ph.D. and/or equivalent research experience. In addition, 4 or more years of successful research experience is required for the associate program director position, and for the program director position, 6 or more years of successful scientific research beyond the Ph.D. is required. Applicants should submit a Standard Form 171, Application for Federal Employment, or resume to the National Science Foundation, Room 208, 1800 G St. NW., Washington, DC 20550. Attn: Catherine Hanke. For further information call 202/357-7840. Hearing impaired individuals should call 202/357-7492. NSF is an Equal Opportunity Employer.

Tissue Culture

Sigma Chemical Company, an international producer and distributor of laboratory biochemicals, has established a new and rapidly expanding line of tissue culture products. Several career opportunities to join this development team at Sigma now exist.

At Sigma, we offer:

- Flexible career pathways
- Job stability
- Historical financial strength
- New GMP facilities dedicated exclusively for tissue culture
- General requirements to join this development team include:
  - An energetic and committed work ethic
  - Minimum BS in science field with relevant and preferably broad academic and/or industrial experience
  - Strong communication skills
- In our Tissue Culture Production and Quality Assurance groups we are looking for people with the following specific experience:
  - General tissue culture lab experience
  - Scientific writing
  - Sterile-filtration
  - GMP validation
  - GMP compliance
- Sigma offers competitive salary and full company paid benefits.

Sound exciting?…Send your resume in confidence to:

SIGMA
P.O. Box 14508
St. Louis MO 63178
Attn: Grant Hewitt
Equal Opportunity Employer

UNIVERSITY OF BASLE
FACULTY OF MEDICINE

Due to the Nomination of the present Occupant to another University the position of

PROFESSOR FOR PATHOLOGICAL ANATOMY
of the University of Basle and
HEAD OF THE INSTITUTE OF PATHOLOGY
at the University Hospital in Basle

is open for qualified candidates.

Persons with long-standing teaching experience (in German) in Pathological Anatomy are requested to send in their written application with the usual supporting documents to the Dekanat der Medizinischen Fakultät, Hebelstrasse 25, 4031 Basle, Switzerland, until December 4, 1987.

COMPUTATIONAL PROTEIN ENGINEERS

If you want to participate in the design and use of tomorrow's protein design computational tools, and if your professional qualifications and communications skills are excellent, and if you enjoy a variety of assignments and responsibilities, you should consider the unique opportunities at TRIPOS. As a member of our scientific staff, you could be involved in:

- Specifying, designing and evaluating new functionality in the most flexible software extant for display and manipulation of polymers such as proteins, and of even more advanced hardware now under internal development.
- Collaborating with a variety of user-customers, both industrial and academic, to formulate and solve protein design problems of major theoretical and commercial importance.

At TRIPOS, the worldwide leader in molecular modeling software, you would live in one of the nation's most convenient and inexpensive metropolitan areas. Compensation package negotiable, based on experience and credentials. Please send resume in confidence to Dr. Richard Cramer: TRIPOS is an equal opportunity employer.

TRIPOS ASSOCIATES, INC.
6548 Clayton Road
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A subsidiary of EVANS & SUTHERLAND
RESEARCH SCIENTISTS

With GENELABS, finding tomorrow's cures holds special urgency and significant reward. Today's health care concerns are daily challenges at Genelabs. Performance and pioneering technology are what set us apart. We're looking for the right people—with sound research skills and a genuine sense of mission—ready to join our highly interactive professional team.

PEPTIDE CHEMIST

Ph.D. in organic or protein chemistry and 2 or more years post doctorate experience in the structural modification and affinity labeling of peptides. You will also be able to identify receptor site interactions with oligopeptides. Experience with automated peptide synthesis important.

PROTEIN CHEMIST

Ph.D. in biochemistry plus 3-5 years experience in structural determination of macromolecules; fragmentation and sequencing of proteins and peptides. Experience with HPLC, 2D gel electrophoresis and automated sequencing/synthesis important.

BIO-ORGANIC CHEMIST

Ph.D. in protein chemistry, biochemistry, immunoc-chemistry or synthetic organic chemistry, plus experience with immunocojugates. The position will involve extensive interactions with a multidisciplinary team of scientists in the design and development of novel therapeutic agents for the treatment of infectious diseases.

*Opportunities also exist for qualified Research Assistants & Associates.

Our work environment is exceptional in our new facilities located in the Seaport Centre on the San Francisco Peninsula. Please forward CV and names of 3 references, in confidence, to: GENELABS INCORPORATED, 505 Penobscot Drive, Redwood City, CA 94063. Attn: Personnel. An equal opportunity employer.

Biomedical Research

Bristol-Myers has made a multi-million dollar commitment to your future

OUR WALLINGFORD, CONNECTICUT WORLD HEADQUARTERS for pharmaceutical research opened in 1986, signaling the start of our second century. This environment fosters interaction across many disciplines and rewards individual achievement. Activities in Wallingford are aimed at the discovery and development of new therapeutic agents in 4 key areas: anti-cancer, central nervous system, cardiovascular, and anti-infective research. Immediate opportunities are available for:

PhD MOLECULAR IMMUNOLOGIST

You must be capable of applying modern techniques of molecular immunobiology to discover and develop novel approaches to regulation of the immune response in cancer.

ASSISTANT/ASSOCIATE SCIENTIST

Requires a BS or MS degree, plus experience in utilizing in vivo and in vitro techniques in murine models of tumor immunology.

ASSISTANT/ASSOCIATE SCIENTIST

Requires a BS or MS degree plus experience with the techniques of membrane receptor biochemistry. Familiarity with protein purification and characterization, and experience in generating polyclonal and monoclonal antibodies are desirable.

BRISTOL-MYERS is a multi-billion dollar global competitor that pursues excellence in pharmaceutical research and development. Our strong, sustained growth, highly competitive salaries, extensive benefits and career support have helped us attract and keep the best people.

TO EXPLORE YOUR FUTURE on the leading edge of pharmaceutical research, send resume with salary history to: BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: TZ4, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492.

An equal opportunity employer.

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Explore with us.
Molecular Biology

ASSOCIATE PROFESSOR, TENURE-TRACK, to begin September 1988. Ph.D., postdoctoral experience and broad biochemical abilities to establish an active, independent research program are required. Research should focus on developmental molecular genetics. Some knowledge of immunology or virology is desirable. Send curriculum vitae, three letters of reference, and a statement of research interests to: Dr. J. Mixed, Chair, Search Committee, Department of Biological Sciences, University of Massachusetts (UMASS)/Boston, Harbor Campus, Boston, MA 02125-3359. An Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST—ASSISTANT PROFESSOR

Position available 1 January 1988. Tenure-track position in the Department of Pharmacology and Toxicology at the University of Tennessee, Knoxville. Research emphasis is on cellular and molecular mechanisms of neuronal plasticity and recovery. Responsibilities include supervision of research personnel. Excellent research opportunities are available. Applicants should have a Ph.D. degree and postdoctoral training. The initial appointment is for a period of 3 years, with a possible renewal. Applications should be sent to: Dr. J. Mixed, Chair, Search Committee, Department of Pharmacology and Toxicology, University of Tennessee, Knoxville, TN 37996-1333. An Equal Employment Opportunity Institution.

VIRGINIA MASON RESEARCH CENTER (VMRC)

MOLECULAR IMMUNOLOGY FELLOWSHIP

A postdoctoral position is available for studies of human immunology and the tumor microenvironment. Successful candidate will have a Ph.D. degree in molecular biology or related field. Experience with molecular biology and cell culture techniques is required. Interested candidates should send curriculum vitae and a brief statement of research interests to: Dr. J. Mixed, Chair, Search Committee, Department of Cellular Immunology, University of Tennessee, Knoxville, TN 37996-1333. An Equal Employment Opportunity Institution.

PHARMACOLOGY FACULTY POSITION

The Department of Pharmacology invites applications for an opening in the area of pharmacokinetics. The successful candidate will be expected to establish a productive research program and to develop a teaching program in the area of pharmacokinetic theory and practice. A Ph.D. degree in pharmacology or a closely related field is required. The appointment will be at the associate professor level. The University of Tennessee, Knoxville, is located in a large metropolitan area with strong academic and cultural resources. The initial appointment is for a period of 3 years, with a possible renewal. Applications should be sent to: Dr. J. Mixed, Chair, Search Committee, Department of Pharmacology and Toxicology, University of Tennessee, Knoxville, TN 37996-1333. An Equal Employment Opportunity Institution.

PHYSICIST—POSTDOCTORAL RESEARCH FELLOW

Position available 1 October 1988. The position is part of an interdisciplinary, large-scale project in engineering physics and biophysics. Research will focus on the development and application of new methods and techniques for the study of fluid mechanics, heat transfer, and biological systems. The successful candidate will have a Ph.D. degree in physics or a closely related field and will be expected to contribute to the development of new experimental techniques and to the interpretation of experimental data. Applications should be sent to: Dr. J. Mixed, Chair, Search Committee, Department of Physics, University of Tennessee, Knoxville, TN 37996-1333. An Equal Employment Opportunity Institution.
POSITIONS OPEN

PHYSIOLOGY POSITION
UNIVERSITY OF COLORADO, SAN FRANCISCO (UCSF)

The Department of Physiology, UCSF seeks candidates for a tenure-track position at the level of ASSISTANT OR ASSOCIATE PROFESSOR. Candidates should have an active research program using cellular, molecular or biophysical methods to study physiological problems. Those candidates whose background qualifies them to teach mammalian physiology are particularly encouraged to apply. Interested individuals should send curriculum vitae, a summary of research and arrange to have at least three letters of recommendation sent to:

Physiology Search Committee, Box 0444
V. Lingappa
University of California, San Francisco
San Francisco, CA 94143-0444

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

POSITIONS OPEN

PLANT PHYSIOLOGICAL ECOLOGIST

The Department of Ecology and Evolutionary Biology at the University of California seeks a plant physiological ecologist for a tenure-track position at the assistant/associate professor level beginning September 1988. The successful candidate will be expected to teach an advanced course in his/her area of interest and participate in an undergraduate biology, plant physiology, or ecology course. Applicants should demonstrate a strong research and teaching commitment and preference will be given to individuals whose interests complement those of the faculty. There are ample opportunities for interaction with faculty in all areas of biology. Applicants should submit curriculum vitae, a statement of research interests, reprints, and three letters of reference by 15 December 1987 to: John Silander, Chairman of the Plant Physiological Ecology Search Committee, Department of Ecology and Evolutionary Biology, Box U-42, 75 North Eagleville Road, The University of Connecticut, Storrs, CT 06269. We are an Affirmative Action/Equal Opportunity Employer, M/F. (Search #A148).

ROSELLW PARK MEMORIAL INSTITUTE
OFFERS
PROFESSIONAL OPPORTUNITIES

A significant redirection and expansion of the clinical and basic research programs is underway at ROSSELL PARK MEMORIAL INSTITUTE, Buffalo, New York. Under new leadership and administration, a Strategic Plan has been completed, which includes the renovation of laboratories and patient units, the construction of new clinical and research facilities, and a reaffirmation of the Institute's commitment to biomedical research and graduate education.

Roswell Park Memorial Institute is an NCI-designated Comprehensive Cancer Center, with 19 buildings, located on a twenty-five acre downtown campus which includes a 218-bed hospital and an Ambulatory Services Center housing thirteen specialty clinics. The Institute's diverse research programs range from genetics, experimental therapeutics, and biological response modifiers to x-ray crystallography and magnetic resonance technology. The Institute is a facility of the New York State Department of Health with a fiscal year 1987-88 budget of over $110 million, including $25 million in research grants and contracts.

Educational opportunities available at the Institute include a Graduate Division of the State University of New York at Buffalo which confers doctoral and master degrees through ten academic departments. Resident training through the State University of New York at Buffalo Medical School encompasses thirteen specialties. The cancer body includes 200 predoctoral students and 70 postdoctoral fellows and 50 residents and clinical fellows.

For physicians/scientists with a commitment and a proven track record in basic, clinical and/or oncological research, excellent opportunities are available in the following areas:

DEPARTMENT/DIVISION CHAIRS
- Director, Cytogenetics
- Director, Bone Marrow Transplant

OTHER POSITIONS
- Gynecology
- Intensive Care Unit
- Clinical Pharmacology and Therapeutics
- Urology
- Experimental Therapeutics
- Medicine (LAK cell program)

Qualified candidates are encouraged to submit their Curriculum Vitae to the Office of the Institute Director, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, New York 14263.

RPM IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

Roswell Park
Memorial Institute

Thomas B. Tomasi, MD, PhD - Director

20 NOVEMBER 1987

PERSONNEL PLACEMENT 1185
SCIENCE, ENGINEERING AND DIPLOMACY FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the Agency for International Development (AID) and the Department of State (STATE) is seeking applicants for two or more Science, Engineering and Diplomacy Fellowships. Fellows will spend one year, beginning 1 September 1988, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the Department of State or in one of several bureaus and offices of the Agency for International Development. Other assignments may also be possible.

Prospective Fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work on scientific and technical subjects in international affairs: foreign policy for STATE and international development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: food and agriculture; health and population; nuclear nonproliferation; scientific exchange; forestry, natural resources, and ecology; oceans and fisheries; communications; national security; and human resources and education, among others.

The Fellows will serve a one-year appointment at a salary consistent with education level and experience, if possible, but not exceeding the GS-12 level (beginning at about $33,000). A security clearance process will be initiated after selection. The clearance must be obtained before a selectee can begin work in the State Department or AID and the fellowship award is contingent upon the selectee obtaining this clearance. Prospective Fellows must be U.S. citizens.

Deadline for receipt of application materials is 15 January 1988. The awards will be announced by mid-April, 1988. For more information and application details write:

Science, Engineering and Diplomacy Fellows Program
American Association for the Advancement of Science
1333 H Street, NW
Washington, DC 20005

Molecular Immunologists

Monsanto Biological Sciences Department, located at the Life Sciences Research Center in suburban St. Louis, has immediate openings in its Molecular Genetics and Mammalian Biology group for Molecular Immunologists.

We are looking for scientists with excellent skills in DNA cloning/expression and molecular genetics analysis of the immune system to support our basic and applied research program in human health care. These challenging positions will initially focus on the study of gene organization and regulation as it relates to control of the immune system and development of autoimmune diseases.

For the first position, the ideal candidate will have a Ph.D. or MD/Ph.D. degree, post-doctoral experience and a publication record in molecular genetics and immunology. Experience in recombinant DNA technology and mammalian cell culture is required. For the second position, an MS or BS in the biochemical sciences and extensive experience in molecular genetics is required.

Interested candidates should send their resume and names of three references to: John Bussen; MONSANTO COMPANY; 700 Chesterfield Village Parkway; Department BBSB-DT; Chesterfield, MO 63119. An Equal Opportunity Employer M/F/H/V.

Monsanto

POSTDOCTORAL FELLOW IN RESPIRATORY PHARMACOLOGY

BURROUGHS WELLCOME CO., an innovative pharmaceutical company located in the Research Triangle Park, North Carolina, and having a top reputation for research, has an immediate opening for a Postdoctoral Fellow in Respiratory Pharmacology to develop and expand efforts directed towards the study of mechanisms of chronic inflammation, hyper-reactivity and bronchoconstriction in the lung in vivo.

Requirements are a Ph.D. in Pharmacology/Physiology, with extensive experience in pulmonary function procedures in vivo. Knowledge of, and experience with, analytical techniques suitable for analyses of mediators of allergy and inflammation would be advantageous. This position offers an opportunity for a scientist to broaden his/her experience while allowing research in an area of mutual interest. Postdoctoral Fellows are initially appointed for one year with renewal for a second year upon mutual agreement of the employee and the Company.

BURROUGHS WELLCOME CO. offers a comprehensive company-paid benefit package, a competitive salary and an excellent environment in which to apply your professional capabilities. Qualified minority, female, veteran and handicapped individuals are encouraged to apply. Individuals should forward a curriculum vitae with transcripts to:

Employment Supervisor, Position #1226, BURROUGHS WELLCOME CO., 3630 Cornwallis Road, Research Triangle Park, NC 27709.

BURLWOGHS WELLCOME CO.

Inquiries will be accepted in strict confidence by:

Candra A. Carter
Administrative Coordinator
Stratagene
11099 North Torrey Pines Road
La Jolla, CA 92037

Stratagene
Research Scientists

Synergen, a leading biotechnology company in Boulder, Colorado, offers the opportunity to build scientific careers in a stimulating intellectual environment. We seek recent Ph.D.'s with postdoctoral experience, technicians, and more senior people interested in becoming part of a rapidly expanding company. There are currently openings for the following persons:

Molecular Biologists to study the expression of eukaryotic genes encoding growth factors, neurotrophic factors, and proteins that modulate inflammatory processes. We also seek molecular biologists interested in developing high level expression systems in eukaryotes.

Protein Chemists to participate in the isolation and characterization of proteins involved in tissue breakdown and repair, or in isolating and characterizing specific cell receptors.

Cell Biologists to develop cell-based models of pathophysiological processes, to aid in the development of in vitro assays for bioactive proteins, and to study endothelial cell biology.

Biochemists to define the mechanism of action of proteins interacting with membrane receptors and involved in signal transduction.

Neurobiologists to assay, isolate, and characterize neurotrophic factors and neuronal receptors, and to study nerve and glial cell biology.

Synergen offers competitive salaries, generous benefits, and the financial stability required for future development. Please send a CV, bibliography, and references to:

Recruitment Director
1885 33rd Street
Boulder, CO 80301

Postdoctoral Fellows
Molecular Genetics

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

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

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

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

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Robert F. Obit, R0097 Manager, Personnel Relations, Smith Kline & French Laboratories, Research and Development Division, P. O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
POSTDOCTORAL POSITION available immediately for postdoc M.D. trained in molecular biology or biochemistry. Candidates should have experience in research involving cloning and sequencing of DNA from murine plasma membrane inhibitors characterized in the laboratory of Dr. David B. Lakey at the University of California, San Francisco. Send curriculum vitae and three references to: Dr. Robert B. Kipps, Department of Biochemistry, University of California, San Francisco, California 94143-0312. A nondiscriminatory, Affirmative Action Employer.

POSTDOCTORAL FELLOW

Available immediately for 2 to 3 years for Ph.D. M.D. training/research background in molecular biology. The research will be centered on the structure and function of the plasminogen activator inhibitor-1. Send curriculum vitae with names of references to: Dr. Robert B. Kipps, Experimental Biology Department, Roswell Park Memorial Institute, Buffalo, New York 14263. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for postdoc M.D. trained in molecular biology. Candidates should have experience in research involving cloning and sequencing of DNA from murine plasma membrane inhibitors characterized in the laboratory of Dr. David B. Lakey at the University of California, San Francisco. Send curriculum vitae and three references to: Dr. Robert B. Kipps, Department of Biochemistry, University of California, San Francisco, California 94143-0312. A nondiscriminatory, Affirmative Action Employer.

POSTDOCTORAL FELLOW

Grunt-funded research position available immediately to study the molecular biology of lung antioxidant enzyme regulation. Opportunity for extensive interaction with large research group examining various aspects of lung vascular biology. Send curriculum vitae and three references to: Dr. Jacqueline B. Shaffer, Wadsworth Center for Laboratories and Research, Health Research, Department 122001, Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL OR JUNIOR STAFF POSITION

Research associate involved in initiation of hepatitis C. Research encompasses cloning, transcription, RNA, translation, biochemical characterization, and animal models. Send curriculum vitae and references to: Dr. Gary D. Silber, Pathology, Ross Hall, Genentech, 2001 Serrano Avenue, Walnut Creek, California 94595. A nondiscriminatory, Affirmative Action Employer.

POSTDOCTORAL FELLOW

Available immediately for 2 to 3 years for Ph.D. M.D. training/research background in molecular biology. The research will be centered on the structure and function of the plasminogen activator inhibitor-1. Send curriculum vitae with names of references to: Dr. Robert B. Kipps, Experimental Biology Department, Roswell Park Memorial Institute, Buffalo, New York 14263. Affirmative Action/Equal Opportunity Employer.

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POSTDOCTORAL POSITION available now with the Department of Agriculture (USDA), Agricultural Research Service (ARS), Tucson, Arizona. ARS is seeking a microbiologist to conduct research on detection of predation by laboratory-reared and wild predators. Knowledge of immunology, biochemistry, and physiology is required; 2 years appointment. Salary commensurate with experience ($27,172 to $32,567 per year). For further information contact: Dr. Allen Cohen, 602-629-6230, USDA, ARS, 2000 East Allen Road, Tucson, AZ 85719. For application forms and information contact: Patricia E. Roberts, 301-344-5138, USDA, ARS, Personnel Division, Room 403, Building 003, Beltsville, MD 20705. Applications in response to this ad should be marked RA-57-80. An Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular and cellular cardiology—available for M.D. or Ph.D. to study regulation of expression of angiogenic growth factors in cardiac and skeletal muscle. Tissue culture and in vivo models used and experience in recombinant DNA technology, immunohistology, and/or protein chemistry desirable. Send curriculum vitae and summary of research experience to: Dr. Judith Swain, Department of Medicine, Box 3828, Duke University Medical Center, Durham, NC 27710. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in AUTONOMIC PHYSIOLOGY available January 1988 for Ph.D. or M.D. to engage in studies of role of autonomic systems in pathogenesis of obesity and hypertension based upon dietary effects on amine systems of small animals. Two-year Harvard appointment includes training in in vivo assessment of amine systems and in HPLC analytical methods. Send résumé and three references to: Dr. James B. Young, Department of Medicine, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02115.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IDENTIFICATION AND CHARACTERIZATION OF ONCOGENES

A fully funded postdoctoral position is available starting 1 January 1988 in the laboratory of Dr. David Steffen in the Department of Cell Biology, Baylor College of Medicine, Houston, Texas. Projects available include the use of murine leukemia virus–induced lymphomas for the identification and isolation of novel oncoproteins, and the use of gene transfer procedures to analyze the biochemical function of proto-oncogenes and oncogenes. Experience in molecular biology is highly desirable. Send curriculum vitae and names, addresses, and telephone numbers of three references to: David Steffen, The Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

POSTDOCTORAL POSITIONS in the area of blood coagulation, complement and neutrophil chemotaxis are available in the Department of Biochemistry. Research on structure-function relationships of the proteins involved with the initiation of coagulation is in the laboratory of Dr. Darryl Fair. Complement research in the laboratory of Dr. Michael Pangburn involves protein and carbohydrate chemistry, fluorescent techniques, kinetics and computer modeling of complement activation. Chemotaxis research in the laboratory of Dr. Richard Painter involves the study of G-protein control of chemotactic peptide receptor-stimulus coupling. Please send curriculum vitae, publications, and names and addresses of three references to the appropriate individual at: Department of Biochemistry, The University of Texas Health Science Center at Tyler, P.O. Box 2003, Tyler, TX 75710.

An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in molecular biology as part of a Program Project to construct cDNA libraries of early mouse embryos to identify and characterize genes that regulate early mammalian development. Experience in cloning, DNA sequencing, or in situ hybridization techniques desirable. Please submit résumé and reference letters to: Dr. C. Lo, Biology Department/G5, University of Pennsylvania, Philadelphia, PA 19104.

If Research Is What You Do Best...

Break through to a new world of possibilities in biotechnology.

As the innovative leader in today’s dynamic industry…Biotechnology, Genetics Institute can offer you a research environment that’s rich in creativity and entrepreneurial spirit. Whether your background stems from academia or another research setting, we at Genetics Institute encourage our research professionals to explore their talents in a stimulating, scientific atmosphere. It is this type of environment that has enabled our research team to make the kind of contributions deserving of our reputation in the application and creation of recombinant DNA technology.

Biochemistry

We have an opening for a staff scientist to join the research biochemistry laboratory of our hematopoiesis research program. The successful candidate will be responsible for the purification and characterization of hematopoietic growth factors from recombinant and natural sources. Qualifications include a Ph.D. in biochemistry or related field, 1 year of relevant experience and working knowledge of molecular biology technology.

Molecular Biology

Applications are invited for postdoctoral candidates interested in studying the involvement of protein kinase C and phospholipase C in the regulation of cell function. The current program is focusing on utilizing a combination of molecular, biochemical and pharmacological approaches such as site directed mutagenesis of protein kinase C and phospholipase C, cDNAs, biochemical analysis of recombinant enzymes as well as the design of phospholipase C inhibitors. The successful candidate will participate in a multidisciplinary research environment including full access to support groups, including peptide synthesis and protein sequencing, immunology, DNA synthesis and nucleotide sequencing laboratories.

Cellular Immunologist

We are seeking a cellular immunologist interested in the regulation of T cell responses in autoimmunity. The position involves working closely with a molecular biologist to analyze the molecular basis of T cell responses in murine and human assays. Candidates should have a Ph.D. in Immunology or related field with a minimum of 2 years’ relevant postdoctoral experience is preferred. Candidates that have relevant graduate research experience will also be considered.

We offer a stimulating scientific environment in addition to an excellent salary, equity participation, and a complete benefits package. Qualified candidates should forward their resumes, in confidence, to: Barbara Covel, Director, Human Resources, Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA 02140.

An Equal Opportunity Employer
Equal Employment Opportunity

POSTDOCTORAL POSITIONS (two) available immediately to work with a recent Ph.D. in biochemical or molecular biology to participate in a comprehensive research project on steroid metabolism and glucocorticoids. The project will involve assays for steroid metabolites using HPLC and RIA and corticosteroid metabolizing enzymes in vitro. The successful candidates will be part of a multidisciplinary team of basic scientists and clinicians who have been studying the biochemistry of glucocorticoids for over 10 years. The laboratory is on the main campus of the Medical School in a suburban setting 30 minutes north of New York City. Send curriculum vitae and the names and telephone numbers of three references to: A. Louis Southren, M.D. or Bernard L. Weinstein, Ph.D., New York Medical College, Cedar- wood Hills, Valhalla, NY 10595.

POSTDOCTORAL POSITIONS: UNIVERSITY OF ALABAMA (UAB)

Two positions available 1 July 1988 for NIDDK training program in cellular physiology with emphasis on modern techniques of membrane transport physiology and biochemistry. Research programs focus on the following areas: epithelial structure and function, ion transport in cystic fibrosis, renal physiology, ion channel biophysics, and reconstitution, electrophysiology of cardiac and pancreatic cells, and electron probe microanalysis. Training faculty include: P. D. Bell, D. J. Benos, K. L. Kirk, R. A. Frizzell, C. S. Pace, R. Rick, G. Saccoi, and J. A. Schafer, R. L. Shoemaker, and W. T. Woods. Applicants must be U.S. citizens or permanent residents and have a Ph.D., M.D., or D.V.M. degrees (including 2-3 years of research experience). Send curriculum vitae and three references to: Dr. D. J. Benos, Department of Physiology and Biophysics, University of Alabama at Birmingham, University Station, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE: one position is to investigate opiate-generated transmembrane signals and the biochemical correlates of drug dependence. The second position is to study novel anticonvulsant binding sites in the CNS. Priority will be given to scientists with experience in molecular biology, protein chemistry and enzymology. Salary commensurate with experience. Send curriculum vitae and three references to: Dr. Jose M. Musacchio, Professor and Acting Chairman, Department of Pharmacology, NYU Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer M/F.

POSTDOCTORAL POSITIONS IN CANCER BIOLOGY UNIVERSITY OF ARIZONA AND ARIZONA CANCER CENTER TUCSON, ARIZONA

The University of Arizona Committee on Cancer Biology is seeking candidates for two postdoctoral positions funded by a National Cancer Institute training grant. Research programs of the 26 participating faculty include basic studies in the biochemistry, molecular and cellular biology, and immunology of cancer, carcinogenesis, tumor biology, molecular and cytogenetics, and cancer prevention and treatment. Candidates should indicate specific interests and send curriculum vitae and the names of references to: Dr. Eugene W. Gerner, Radiation Oncology Department and Cancer Center, University of Arizona Health Sciences Center, Tucson, AZ 85724. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE, instrumentation and programming for plant effects research. Position is available immediately. Studies include effects of application of carbon dioxide, ozone, and other pollutants to plants in open air settings. Individual selected will be responsible for analysis of atmospheric gases, database programming and analysis, and may contribute to a multi-institutional effort in systems modeling. Position requires a high degree of skill in BASIC and FORTRAN programming, and analytical instrumentation. Development of new research proposals will be encouraged. Send curriculum vitae, that includes publication list, and names of three references to: Dr. George B. Hendrey, Department of Applied Science, Terrestrial and Aquatic Ecology Division, Building 318, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer M/F.

RESEARCH AND DEVELOPMENT OPPORTUNITIES

The Dade Division of Fortune 100 Baxter Healthcare Corporation is a leader in the development of diagnostic products and instrumentation for clinical laboratories, with facilities in the U.S., Europe and Puerto Rico. We currently have two exceptional opportunities for high level R&D Directors in our Research and Development area.

Both incumbents will report directly to the VP of R&D and will be responsible for R&D project management, strategic planning and new product development and introductions. In conjunction with the above responsibilities, the selected candidates will serve on major advisory councils within the U.S. and internationally.

DIRECTOR — Instrument Systems Development

The selected individual will lead a large team of engineers and scientists in the Research and Development of Diagnostic Instruments. A Ph.D. is desired, preferably in disciplines such as Biochemistry, Physical Chemistry, Engineering, etc., along with a proven track record of product development. Approximately 8-12 years experience with immunodiagnostics and/or coagulations system experience is preferred.

DIRECTOR — Reagent Development

The incumbent will be responsible for directing a staff of scientific professionals in design, development and evaluation of enzyme immunoassays. 8-12 years experience in broad areas of complex immunodiagnostic systems design and the development of clinical laboratory reagents is desired, along with a Ph.D. in chemistry, biology or biochemistry.

Each position requires a combination of broad technical knowledge with strong managerial skills and excellent interpersonal and communication skills.

The Dade Division is based on the beautiful east coast of South Florida where, in addition to paying no state or local income taxes, you will enjoy a year round quality lifestyle which attracts new residents and visitors from around the world.

Baxter offers a stimulating career opportunity where contributions are recognized and rewarded. Please consider, please forward your c.v. to Professional Staffing, Baxter Healthcare Corporation, Dade Division, P.O. Box 140520, Coral Gables, FL 33114. Equal Opportunity Employer.

RESEARCH SCIENTIST

The Diagnostics Group (Ames) of Miles, Inc., a leader in Medical Diagnostics, is currently seeking a Research Scientist in our Immunodiagnostics Research and Development Laboratory.

Candidates must have a Ph.D. (or the equivalent in education and experience) in Microbiology, Biochemistry, or Molecular Biology along with postdoctoral or industrial research experience in bacterial antigen isolation, purification and characterization techniques.

The candidate will conduct isolation, purification and characterization of bacterial antigens and support ongoing immunoassay development work. Work will also involve planning and conducting research, analyzing data and collaborating with current project personnel.

Located in Elkhart, Indiana, we offer varied recreational and educational facilities as well as convenient accessibility to the Chicago area. Starting salary commensurate with experience. Plus an excellent benefits program. Relocation benefits paid by the company.

Please send a complete resume in confidence to:

Linda Heiland
Sr. Personnel Representative
Department 257
Miles, Inc.
P.O. Box 40
Elkhart, IN 46515

AN EQUAL OPPORTUNITY EMPLOYER M/F

MILES

1190
The Glaxo Institute for Molecular Biology has a staff of over 100 in well-equipped facilities in Geneva, Switzerland. We are part of the Glaxo group—Britain’s largest pharmaceutical organization which has an outstanding reputation for the quality of its products and its research.

The Institute provides the molecular biological basis for discovering effective new medicines for major therapeutic areas. Our interests centre currently on inflammatory diseases, fungal and viral therapeutics and regulation of cell proliferation and differentiation.

The Institute collaborates on a project basis with Glaxo Group Research Ltd and has links with the other centres of research within the Glaxo Group.

We are currently expanding our research group and are looking for highly qualified scientists to join the experienced team at the Institute. Candidates should have post-doctoral experience and a proven track record in research. In addition, we are offering a number of post-doctoral fellowships for basic research projects.

Molecular Biologists
1. Investigation of HIV genes.
2. Control of gene expression in animal cells.
4. To lead group in nucleic acid sequencing.

Yeast Geneticist
Classical and molecular yeast genetics.

Microbiologist
Microbial biochemist to study fungal metabolism.

Cell Biologists
1. Lymphokine mode of action.
2. Cellular immunologist.
3. Immunologist to work on monoclonal antibodies.
4. Development of recombinant animal cell lines.
5. Large scale tissue culture.

Protein Chemists
1. Protein structure, to take charge of amino-acid microsequencing.
2. Purification and characterization of proteins from natural sources.

Postdoctoral Fellowships
Interesting project opportunities exist for positions tenable for two years, extendable to three.

We offer an excellent salary and benefits package, with opportunities for career development, in one of the most attractive parts of Europe.

Please write with a full curriculum vitae, list of publications and the names of three references, indicating the position you are interested in, to Rita Gloor, Personnel Manager, GLAXO INSTITUTE FOR MOLECULAR BIOLOGY S.A., 46, ROUTE DES ACACIAS, 1227 GENEVA, SWITZERLAND.

All replies will be evaluated in strict confidence.
POSTDOCTORAL STUDENT OPPORTUNITY

Postdoctoral student to investigate aspects of disease resistance to Gram-negative infection particularly the role of outer membrane antigens and its influence on the mycelial growth system. The overall area of research involves deployment of mutant and recombinant proteins that mediate T cell function in collaboration with other immunologists. An appointment is available in an appropriate department of the Harvard Medical School.

Send curriculum vitae and names of two references to: Susan Forgione, or call 617-732-3348. Dana-Farber Cancer Institute, 45 Binney Street, Boston, MA 02115. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for Ph.D. or M.D. to study the influence of the extracellular matrix on neoplastic cell differentiation. Applicants with interest in cell biology or biochemical aspects of the project are encouraged to apply. Please submit curriculum vitae, a brief description of research experience, and the names of three references to: Dr. Sharon Luftkant, Department of Medicine, University of Minnesota Hospital and Clinics, Minneapolis, MN 55455. We are an Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Position available January 1988 to work on mononuclear phagocyte differentiation. Ph.D. degree in biochemistry or cell biology required. Experience in monoclonal antibody production, enzyme-linked immunosorbent assay analysis, cell culture, immunological assays, and handling of laboratory animals desirable. Salary dependent on experience. Applications accepted until 31 December 1987. Send curriculum vitae and names of three references to: Dr. Alvin Vollman, Department of Pathology, East Carolina University School of Medicine, Greenville, NC 27858. Federal law requires proper documentation of identity and employability prior to final consideration for these positions. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE

POSTDOCTORAL ASSOCIATE position for the study of motile systems in muscles and cells. Projects include regulation of actomyosin ATPase, mechanism of kinase-micronucleus ATPase, functions of motile systems in cell division. Experience in protein biochemistry or cell and molecular biology preferred. Send curriculum vitae and names of references to: Dr. E. W. Taylor, Department of Molecular Genetics and Cell Biology, The University of Chicago, 920 East 57th Street, Chicago, IL 60637. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

POSTDOCTORAL RESEARCH ASSOCIATE position is available for recent Ph.D. graduate in biochemistry to work in intracellular events and factor cell interactions involving signal transduction and regulation with regulator lymphokines; and interactions between leukemia and immune cells. Training and experience in receptor and protein biochemistry is desirable. Send a curriculum vitae to: Professor J. W. Chiao, Department of Medicine, New York Medical College, Valhalla, NY 10595 (located 30 miles north of New York City).

POSTDOCTORAL STUDENT OPPORTUNITY

POSTDOCTORAL STUDENT OPPORTUNITY

POSTDOCTORAL/RESEARCH ASSOCIATE

SECRETARY

POSTDOCTORAL ASSOCIATE

POSTDOCTORAL ASSOCIATE position in research on the role of growth factor receptors in the regulation of growth by estrogenic hormones. Experience in one or more of the following areas is desirable: Reverse transcriptase and DNA synthesis, cell cycle experiments, and control of factor receptors, mRNA analysis, and antibody production/use. Salary and appointment are negotiable based upon experience. Send curriculum vitae, copies of publications, and names of three references to: Dr. George H. Halgren, University of Texas Medical School at Houston, P.O. Box 20708, Houston, TX 77225. An Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL AND POSTDOCTORAL Virology Positions

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) SCHOOL OF MEDICINE

The Department of Microbiology and Immunology, UCLA School of Medicine, is seeking two postdoctoral associates to work in the laboratories of Dr. Bruce Davidson, Department of Biology, University of California, Los Angeles, CA 90024. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR-IN-CHARGE, LEOPOLD CENTER FOR SUSTAINABLE AGRICULTURE—

Iowa State University seeks outstanding scientist and administrator for newly created research center. Responsibilities: administer interdisciplinary research; secure program support; conduct personal research. Qualifications: Ph.D. or equivalent in related discipline; administrative experience; superior research record; success in obtaining grants. Salary and academic rank commensurate with qualifications. Nominations welcome. Submit curriculum vitae, three references, and a plan for the development of the center to: Dr. Robert W. Wallace, Department of Pharmacology, University of Alabama at Birmingham, (UAB) Birmingham, AL 35294. (UAB is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE to participate in ongoing studies of Ca²⁺-mediated signal transduction in human platelets. Research involves the identification and characterization of novel calmodulin-binding proteins and investigating the role of Ca²⁺-dependent proteolysis as it relates to calmodulin-dependent reactions (see Biochemistry 26, 2766-2773). Ph.D. in biochemistry or related discipline with experience in protein chemistry and enzymology. Send letter of application, current vitae, relevant publications, and names of three references to: Dr. Robert W. Wallace, Department of Pharmacology, University of Alabama at Birmingham, (UAB) Birmingham, AL 35294. (UAB is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE OR ASSISTANT

DEPARTMENT OF MEDICINE, SECTION OF RHEUMATOLOGY/I MMUNOLOGY

Candidate should have experience in cell culture techniques, modern constructs of biochemistry, immunology, and molecular biology to research autoantibodies associated with autoimmune connective tissue diseases. Experience in the study of autoantigens is highly desirable. Salary commensurate with training and experience. Screening to begin 15 December 1987. Send curriculum vitae to: Section Head, Department of Medicine, University of Alabama at Birmingham, (UAB) Birmingham, AL 35294. (UAB is an Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST OR SENIOR RESEARCH ASSOCIATE: PROKARYOTIC GENOME ANALYSIS

The Center for Prokaryotic Genome Analysis (CPGA), University of Illinois at Urbana-Champaign (J. Kennedy and C. Woese, Co-directors) seeks a qualified individual to participate in the sequencing of archaebacterial genomes.

The CPGA comprises scientists whose interests span molecular biology, biochemistry, genetics, physics, computer science, mathematics and electrical/computer engineering. Its members derive from several University of Illinois departments as well as the National Center for Genome Research in the United States and Canada. Support for the Center derives in part from a NSF Biology Facilities Award. The major goal of the CPGA is to determine the sequences of archaebacterial genomes, using these to better understand the evolution of the cell, phylogenetic relationships in general, mechanisms of genome evolution as well as gene structure and function. The Center will be particularly concerned with the development of proper procedures for the analysis of sequence data.

Applicants should have a Ph.D. with postdoctoral experience in molecular biology, genetics, microbiology or a related field. They should have expertise in all aspects of DNA sequencing, and be capable of directing a staff of six to eight support personnel. A background in related areas such as computer applications, instrumentation, oligonucleotide synthesis is also desirable.

Salary is negotiable based on experience. Full-time position. Title will be based on experience. Starting date is 1 March 1988.

Send curriculum vitae including a full description of experience, relevant reprints and the names of three references to: Dr. Jordan Konisky, Center for Prokaryotic Genome Analysis, University of Illinois at Urbana-Champaign, Microbiology, University of Illinois, Urbana, IL 61801; telephone: 217-333-1142.

Closing date for applications is 15 December 1987. Interviews may be conducted before that time, but all applications received before 15 December 1987 will receive full consideration.

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

RESEARCHER POSTDOCTORAL RESIDENT

RESEARCH OFFICER

BRIEFING

RESEARCHER POSTDOCTORAL

RESEARCH SCIENTIST OR SENIOR RESEARCH ASSOCIATE: PROKARYOTIC GENOME ANALYSIS

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The University of Illinois is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

RESEARCH SCIENTIST: The Division of Pulmonary Medicine at Long Island Jewish Medical Center is seeking a Ph.D. who has demonstrated ability to pursue independent research to direct the pulmonary laboratory. Potential collaborative areas of interest include endothelial cell injury, erythropoietin physiology, and surfactant secretion. Continuous funding is available through the Nina Weisman Foundation. Faculty appointment at SUNY, Stony Brook commences with experience and publications. Interested applicants should send their curriculum vitae along with three letters of recommendation to: Harry Steinberg, M.D., Division of Pulmonary and Critical Care Medicine, Long Island Jewish Medical Center, New Hyde Park, NY 11042. An Equal Opportunity Employer.

RESEARCH TECHNICIAN

The Biological Sciences Section of the Garst Seed Company, a member of the ICV International Seeds Business, is seeking candidates for B.S./M.S. level positions to conduct restriction fragment length polymorphism (RFLP) analysis of maize. Applicants must have experience with standard molecular biology procedures and will ideally have experience of genetic screening and/or genetic analysis. The research will be conducted at Slater (10 miles south of Ames), Iowa. Salary and benefits will be competitive. Send resume to: Bioscience Section Secretary, Garst Seed Company, Research Department, P.O. Box 500, Slater, IA 50244. The Garst Seed Company is an Equal Opportunity Employer.

RESEARCH ASSOCIATE IN HEART DEVELOPMENT specifically the physiology and morphogenesis of the extraembryonic circulatory system. Knowledge and experience in cardiac embryology, cardiovascular physiology, scanning and transmission electron microscopy, electron microscopy, and microdissection will be required. Individuals with training and interest in the embryology of cardiac development including use of the servo-null pressure system and pulsed-Doppler velocity meter. Experience in computer programs for biostatistics and data management essential. Individual will assist in the teaching of postdoctoral fellows, and preparation of grants and technical reports. Education requirement is a master's degree. Experience required is a minimum of 7 years in cardiovascular development. Faculty appointment in the service track, salary negotiable. Send curriculum vitae and two letters of reference within 30 days: to Edward B. Clark, M.D., Chief of Pediatric Cardiology, Box 631, University of Rochester School of Medicine, Rochester, NY 14654. Telephone: 716-275-4601. Equal Opportunity/Affirmative Action Employer.

RESEARCH INSTRUCTOR in allergy-immunology. M.D. required, M.S. or Ph.D. in biochemistry. Research involves biochemistry of human lymphocyte activation. Salary $33,000 per year. Send curriculum vitae to: Ralph S. Geha, M.D., The Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.

SCIENTIFIC PROGRAMMING

Fein-Marquart Associates is a small, established, computer software research and development firm specializing in scientific programming and database systems, especially chemical information systems and laboratory information management systems. Projects vary in size and use a variety of sophisticated computer environments—from microcomputers to large mainframes. As part of its current expansion, FMA seeks experienced PROGRAMMERS with scientific degree(s) and Fortran experience. Please send resume to: Fein-Marquart Associates, Inc., 7215 York Road, Baltimore, MD 21212; telephone: 301-821-5980.

LIPOGEN, INC.

A rapidly growing biotechnology firm located at the beautiful foothills of the Smoky Mountains is looking for two Ph.D. SCIENTISTS to join the R&D of diagnostic and therapeutic products based on molecular cloning and liposome technologies. Excellent compensation and career development opportunities. Relationship with the nearby University of Tennessee is excellent.

1) Molecular biologist: bacterial or yeast expression vector construction; cloning of mammalian genes for large-scale production of proteins and lipoprotein, biochemical characterizations of the cloned proteins.

2) Liposomologist: in-depth knowledge of physical chemistry of lipids; working experience with liposomes; immunochemistry of antibody purification and chemical modifications; immunoassay.

Please send curriculum vitae to: Dr. Leaf Huang, Lipogen, Inc., 10518 Research Drive, Knoxville, TN 37932.
Monoclonal Antibody Development

Cetus Corporation, a front-runner in the field of biotechnology, seeks a highly qualified scientist to develop monoclonal antibodies for research and diagnostic applications.

The successful candidate will join our Department of Immunology in Palo Alto, California. He/she will supervise a well-equipped laboratory and technical group developing monoclonal antibodies to a wide variety of microbial, viral and cellular antigens. Position requirements are a Ph.D and a background in immunology and biochemistry, plus a familiarity with techniques for immunization, fusion, hybridoma screening and antibody purification and characterization. Additional opportunities exist for BS/MS level technical staff in the monoclonal antibody development group.

Please send your resume in confidence to:

Cetus Corporation
Box DRS
1400 Fifty-Third Street
Emeryville, CA 94608

An equal opportunity/affirmative action employer.

Comparative Pathologist D.C.M.

The Division of Comparative Medicine at MIT is seeking a Pathologist.

DUTIES: Provide diagnostic pathology support and research support for the lab animal program at MIT and other Boston biomedical facilities, participate in the teaching and training of postdoctoral students; and collaborative research with an emphasis on recognizing and defining abnormal physiologic diseases of interest to biomedical researchers.

QUALIFICATIONS: DVM with 2 to 4 years in a pathology training program or graduate school. ACVP board certification or eligibility and demonstrated research ability. Strong interest in comparative medicine and experimental pathology.

Send resume to and cover letter to Dr. James G. Fox, Division of Comparative Medicine, RM 45-166, Massachusetts Institute of Technology, Cambridge, MA 02139.

MIT is a non-smoking environment.

MIT is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

A COMMUNITY AT WORK

Research Associates

Maimonides Medical Center, a progressive 700 bed teaching hospital, has POST DOCTORAL RESEARCH ASSOCIATE positions available in the following areas:

MOLECULAR BIOLOGY

The selected candidate will perform recombinant DNA techniques in the fields of virology, and immunology. Research will involve viral gene amplification and detection (in situ hybridization).

IMMUNOLOGY

The successful candidate will study cellular and humoral immune mechanisms in the area of auto-immunity diseases of the CNS. Experience in Protein Purification, T Cell Cloning, and/or Suppressor T Cell Assay desirable.

The above positions will be available beginning January 1st, 1988 and offer salaries in the $28K to $35K range, excellent fringe benefits, and an attractive Brooklyn location just 20 minutes from downtown New York City.

Please send CV. and letters of reference to:

DR. F. MOKHTARIAN
Associate Professor and Director,
Division of Virology/Immunology
DEPARTMENT OF MEDICINE

Maimonides Medical Center
4802 Tenth Avenue
Brooklyn, New York 11219

We are an equal opportunity Employer M/F

POSTDOCTORAL FELLOWSHIP IN MOLECULAR IMMUNOLOGY

DNAX RESEARCH INSTITUTE has an opening for a postdoctoral scientist to work in the laboratory of Dr. Gerard Zurawski on structure-function relationships of lymphokines and their receptors. The project emphasizes molecular mutagenic analyses of the receptor-ligand interaction. The ideal candidate will have completed a Ph.D in Biochemistry or Chemistry and have experience in purification, chemical modification and physical analysis of proteins.

DNAX is supported by Schering-Plough Corporation and operates as a separate research institute committed to basic research in immunology and molecular biology. The institute provides a unique resource for productive collaborative efforts between Immunologists and Molecular Biologists in a generously funded and open academic-like atmosphere. Postdoctoral fellows are encouraged to interact with other scientists at DNAX, and, where appropriate, with members of the Scientific Advisory Board and scientists at universities. DNAX two-year postdoctoral fellowships have generous stipends and benefits.

Applicants should send a curriculum vitae, a concise statement of research interests, and the names of three references to:

Human Resources Department,
DNAX Research Institute of Molecular and Cellular Biology,
901 California Ave., Palo Alto, California. 94804-1104.
Biotechnology Scientists

NYGene, an expanding and innovative biotechnology products and instrumentation company, is seeking scientists. Industrial experience is preferred.

Bioseparation and Affinity Chromatography
- Ph.D. with expertise in protein purification and characterization to lead a scientific staff.
- MS/BS in Chemistry or Biochemistry.

Cell Culture and Hybriedoma Technology
- Ph.D./MS with expertise in cell biology and monoclonal antibody production.

Reagent and Assay Development
- Ph.D. experienced in all aspects of reagent development and production.
- MS/BS for immunoassay development.

Quality Control
- An individual experienced in all phases of biological products and/or instrumentation development with a demonstrated ability to build a QC Department.

Send resume and salary history, indicating position of interest to: NYGene Corporation, 1 Odeil Plaza, Yonkers, NY 10701.

NYGene
An equal opportunity employer.

R&D PROJECT MANAGER CANCER DIAGNOSTICS

If you are looking for an opportunity to run your own project in a team that works together, to be responsible for the research, development and market introduction of new cancer diagnostic products, this could be the chance of a lifetime. We have recently acquired exclusive worldwide rights to a new, patented ovarian cancer marker and are looking for the right person to bring this and other new cancer diagnostics to the oncologist.

You should have experience in cancer diagnostic research with emphasis on monoclonal antibody and immunoassay development. Experience managing clinical studies with expertise in biomarker statistical analysis is highly recommended. Academic background should include a Ph.D. in biochemistry/immunology. The position reports directly to the Vice President of Research and Development and includes generous equity participation and eligibility in our management bonus plan.

We are DIANON Systems, a four year old, privately-held, cancer diagnostics company located in Stratford, CT. A rapidly growing leader in our field, we bring innovative diagnostic products and services to oncologists and clinicians engaged in cancer research.

Candidates interested in exploring this opportunity should send their curriculum vitae with pertinent publications to: Richard S. Foemmel, Ph.D., V.P. Research and Development at DIANON Systems, Inc., 555 Lordship Boulevard, Stratford, CT 06497-7124.

DIANON Systems
Diagnostic Innovations for Oncology
An equal opportunity employer

TWO APPOINTMENTS IN
MACROMOLECULAR CRYSTALLOGRAPHY

The Department of Chemistry of the UNIVERSITY OF PENNSYLVANIA together with the WISTAR INSTITUTE OF ANATOMY AND BIOLOGY announce the formation of a joint facility for macromolecular crystallography. Two appointments will be made as early as the Spring of 1988, at the Assistant Professor rank. One position will be a tenure track appointment in the Department of Chemistry, while the other position will involve a primary faculty appointment at the Wistar Institute. Candidates should have demonstrated research and teaching potential. Our institutions are prepared to offer generous laboratory start-up packages.

We offer competitive salaries and comprehensive benefits packages. Three letters of recommendation should be sent to either of the search committees. Also send curriculum vitae, publications, and a brief description of research interests. Applications will be considered as they are received. The search will remain open until both positions are filled.

Biological Search Committee
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104

Structure Search Committee
The Wistar Institute
36th at Spruce Street
Philadelphia, PA 19104

The University of Pennsylvania and The Wistar Institute are equal opportunity employers M/F

Analytical Chemist

The Analytical Chemistry Department of Smith Kline & French Laboratories, located in a new state-of-the-art research facility near Valley Forge, Pennsylvania, is seeking an Associate Senior Investigator to:
- plan the analytical approach and if necessary develop new methodology to solve specific problems involving biopharmaceuticals.
- apply state-of-the-art analytical techniques including HPLC, GC, ion chromatography to assay biopharmaceutical drug substances.

Candidates are required to have:
- a Ph.D. in Analytical Chemistry preferably with postdoctoral experience.
- experience with gas chromatography, HPLC and trace analysis.
- excellent written and verbal communication skills.
- experience with analysis of biopharmaceutical drug substances is desirable.

We offer 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 consideration, please forward your C.V. and names of three references to Robert F. Obst, Manager, Personnel Relations, R0113, Smith Kline & French Laboratories Research and Development Division, P. O. Box 1533, King of Prussia, PA 19406-0533. We are an Equal Opportunity Employer, M/F/E/V.

SK&F
A SmithKline Beechman Company
POSITIONS OPEN

SENIOR RESEARCH ASSOCIATE

Intellecually challenging academic research position with both long-term career and leadership potential. A qualified candidate should have a Ph.D. degree (American or U.K. School) and have had at least one previous postdoctoral experience. Background necessary in either cell biology or protein biochemistry. Possibility open for development of independent project work within context of general goals of the group. Salary and fringe benefits competitive. Send curriculum vitae and references to:

G. I. Research Unit
Research Institute, M-3
Chemistry and Biochemistry
9500 Euclid Avenue
Cleveland, OH 44106
An Equal Opportunity Employer M/F/H.

SENIOR RESEARCH SCIENTIST. Ph.D. in virology/microbiology required. Seeking an experienced highly qualified virologist willing to work with human immunodeficiency virus in a laboratory setting. Strong molecular biology background essential with capability to develop and carry out AIDS research projects. Please send curriculum vitae and a list of three references to: Dr. A. E. Friedman-Kien, Department of Microbiology, NYU Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer M/F.

SURFACE CHEMIST/MINERALOGIST. The University of Wisconsin, Department of Soil Science invites applications for a tenure-track assistant professor position. The candidate is expected to develop an innovative research program that uses modern instrumental techniques to characterize the surface properties of the soil solid phase. The research will involve collaboration with investigators in the College of Agricultural and Life Sciences, the Materials Science Center, and others. Teaching responsibilities include advanced soil mineralogy. Applicants should submit curriculum vitae, a summary of proposed research, and should arrange to have three letters of recommendation sent to: Professor Philip A. Helmeke, Department of Soil Science, University of Wisconsin, Madison, WI 53706. Applications should be received by 15 January 1988, to be assured full consideration.

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

SYSTEMS ECOLOGIST

The Energy and Environmental Systems Division, Argonne National Laboratory, is seeking a systems ecologist with demonstrated expertise in modeling terrestrial systems altered by human activity. Preference will be given to those individuals with research experience in vegetation dynamics, ecosystem/landscape analysis, or terrestrial ecosystem models. Experience in multi-decadal, cumulative database development is essential. The successful candidate will work with a multidisciplinary group of environmental scientists. Ph.D. required; salary competitive. For prompt consideration, send detailed résumé and qualifications, including salary history, to:

Rosalie L. Bottino
Energy Division
Argonne National Laboratory
9700 South Cass Avenue
Argonne, IL 60439
Argonne is an Equal Opportunity/Affirmative Action Employer

TECHNOLOGY CURATOR

Responsible for developing exhibits on all aspects of contemporary technology at major science-technology center. Reports to Deputy Director. Requires significant project management experience, ability to curate complex topics to general public, excellent writing and interpersonal skills. Minimum requirements: Ph.D. in technology-related field, 3 years of college teaching, and 1 year of relevant administrative experience. Send letter and résumé by 18 December 1987 to: Ms. Elizabeth Sims, Personnel Officer, California Museum of Science and Industry, 700 Exposition Drive, Los Angeles, CA 90037. Equal Opportunity Employer.

POSITIONS OPEN

The University of Alaska Fairbanks, Juneau Center for Fisheries and Ocean Science, is seeking applicants for a TENURE-TRACK POSITION in the area of management of renewable aquatic resources. The appointment will involve research and/or supervision on the graduate level. Research will include emphasis on Alaskan fishery resources including salmon, herring, groundfish, and shellfish with special attention to the Gulf of Alaska and the Bering Sea. Development of information gathering and processing for real-time decision making; optimization techniques for determining best compromise among conflicting management objectives in mixed stock biomedical and/or commercial species fisheries assessment, enumeration, and stock identification of fish populations; recruitment processes and fisheries oceanography; multispecies interaction and disruption of stable predator/prey assemblies by fisheries exploitation; role of predation by piscivores in fish population dynamics. Applications should be received by 15 January 1988. Applicants should send a statement of interest, curriculum vitae, and the names and addresses of three references to:

Search Committee
Ole Mathisen, Chair
c/o School of Fisheries and Ocean Science
University of Alaska Fairbanks
Fairbanks, AK 99775—1080

The University of Alaska is an Equal Opportunity/Affirmative Action Employer and educational institution; your application for employment with the University of Alaska may be subject to public disclosure if you are selected as a finalist.

TENURE-TRACK FACULTY POSITION IN APPLIED BIOMATHEMATICS AND COMPUTER SCIENCE

The University of Pennsylvania School of Veterinary Medicine is seeking applicants having credentials in applied biomathematics and computer science to join its professorial faculty. Qualified individuals must have an advanced degree in biomathematics and/or computer science and a doctorate in mathematics, computer science or physics, in addition to demonstrated ability to lead an academic program in the intersection of computer science and veterinary medicine. Major emphasis will be placed on the candidate's experience in development of computer software for mathematical modeling and its application to understanding the behavior of biological systems at the cellular, whole organism and population level. The successful candidate will participate in existing programs in integrated animal health outreach, food animal epidemiology and health economics and clinical nutrition. Experience in modeling and the development of an array of computer and biomedical sciences is desirable.

The candidate will be expected to develop a viable academic program in biomathematics and applied biomathematics and provide leadership in the establishment of computer facilities in the School of Veterinary Medicine. The individual would also be expected to develop relationships with other departments in computer and biomedical sciences with other schools of the University and elsewhere beyond the Veterinary School. Demonstrated ability to integrate a major computer science software development projects and obtain competitive research support is essential.

Qualified applicants should submit curriculum vitae and names of five referees to:

Dr. Robert H. Whitlock, Chairman
Department of Clinical Studies, New Bolton Center for Animal Health and Development
School of Veterinary Medicine
382 West Street Road
Kennett Square, PA 19348

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


Women and minorities are encouraged to apply. Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer.

TERRESTRIAL ANIMAL ECOLOGIST—tenure-track position open in fall 1988, for assistant or associate professor position with Ph.D. with research abilities (as demonstrated by publications) in studies of animal interactions at the community or ecosystem level. Research and teaching responsibilities include the integration of relevant environmental sciences and the development of two tenure-track faculty positions at the ASSISTANT/ASSOCIATE professor levels. We are seeking individuals to participate in innovative, integrative programs in applied biochemistry and ecology. Send letter of interest, curriculum vitae, list of publications and/or reprints, and description of research interests and the names of three references to: Mr. J. Granger, Ph.D., Professor and Head, Department of Medical Physiology, Texas A&M University, College Station, TX 77843.

VASCULAR CELL BIOLOGY. The Department of Medical Physiology and the Microcirculation Research Program located at Texas A&M University are jointly involved in the recruitment of two new tenure-track faculty positions at the ASSISTANT/ASSOCIATE professor levels. We are seeking candidates for new faculty positions in vascular biology and to expand the Department's vascular research. Send letter of interest, curriculum vitae, list of publications and/or reprints, and description of research interests and the names of three references to: Harris J. Granger, Ph.D., Professor and Head, Department of Medical Physiology, College of Medicine, Texas A&M University, College Station, TX 77843.

VETERINARY PATHOLOGISTS

International Research and Development Corporation (IRDC) has an opening for a pathologist. Board-certification plus experience in toxicologic pathology is desired. However, Board-qualified candidates will be considered. Responsibilities include histopathologic evaluation of slides and service as a pathology study monitor for ongoing studies. Ability to analyze data and write reports is essential. Our pathology division is responsible for clinical and anatomic pathology for our extensive program of toxicologic research for the pharmaceutical, agricultural, chemical, and consumer industries as well as government agencies. IRDC is located a few miles from Kalamazoo, Michigan, midway between Chicago and Detroit, an area affording a broad range of urban or rural life styles with cultural and recreational resources. We offer excellent benefit programs and a starting salary commensurate with experience. Send your résumé to:

Mr. John Ragen
Director of Medical Research
International Research and Development Corporation
500 North Trail
Mattawan, MI 49071

Equal Opportunity Employer

POSITIONS OPEN

TENURE-TRACK POSITION FOR MOLECULAR VIROLOGIST AT THE UNIVERSITY OF PITTSBURGH

The Department of Ophthalmology offers an excellent academic opportunity for a molecular virologist to associate professor level. The successful candidate will have a strong background in virology, postdoctoral fellowship is required. Experience with HSV, VZV, or CMV is desirable. A joint appointment in the Department of Microbiology, Biochemistry, and Molecular Biology of the School of Medicine is anticipated. The position offers generous startup support (2 to 3 years), an outstanding new physical facility and a stimulating scientific environment. Applications are available from Y. Jerold Gordon, Director of the Campbell Microbiological Laboratory, The Eye and Ear Institute of Pittsburgh, 203 Lothrop Street, Pittsburgh, PA 15213, telephone: 412-647-2212. An Equal Opportunity/Affirmative Action Employer.

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

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

VETERINARY PATHOLOGISTS

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Mr. John Ragen
Director of Medical Research
International Research and Development Corporation
500 North Trail
Mattawan, MI 49071

Equal Opportunity Employer
Biochemist, Immunochemist

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking an Associate Senior Investigator to:

- plan the immunological/bioanalytical approach and if necessary develop new methodology to solve specific problems involving biopharmaceuticals and proteins of research interest.
- apply state-of-the-art immunological/bioanalytical techniques (including ELISA, Western Blotting, Electrophoresis, generation of monoclonal and/or polyclonal antibodies analytical methods of protein analysis) to analyze biopharmaceutical drug substances.

Candidates are required to have:

- A Ph.D. in Biochemistry/Immunology preferably with postdoctoral experience.
- experience with immunological and biochemical methods of protein analysis.
- excellent written and verbal communication skills.
- experience with the analysis of biopharmaceutical drug substances preferred.

Located in suburban Philadelphia, Pennsylvania, we offer excellent compensation, benefits and an attractive relocation policy as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential consideration, please forward your C.V. and names of three references to Robert F. Obst, Manager, Personnel Relations, R0114, Smith Kline & French Laboratories, P. O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/H/V.

Associate Scientist, Molecular Biology

Applied Biosystems manufactures and markets automated instruments, a wide range of chromatography columns and components, and several hundred associated chemicals for biotechnology research and related applications.

At its Foster City location the company has an opening for a Molecular Biologist to assist in the development of automated nucleic acid sequencing systems.

This position requires a Ph.D. in Molecular Biology or a related field with two or more years of postdoctoral experience in recombinant DNA technology. Candidates should be interested in methods development and have demonstrated skills in DNA sequencing, molecular cloning, preparing and screening genomic and cDNA libraries, and restriction mapping.

The ideal candidate is innovative, self-motivated, and possesses good communication skills to work with a multi-disciplinary team. Publication in professional journals is encouraged.

Applied Biosystems offers attractive compensation, benefits and growth opportunity.

Send resume to:
Human Resources Department
Applied Biosystems
850 Lincoln Centre Drive, Foster City, CA 94404
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Research your future.

Syntex, an international pharmaceutical and health care corporation has immediate openings in our research headquarters located on the San Francisco Peninsula.

Pharmacokineticist

In this position, you'll analyze data and prepare reports for bioavailability and pharmacokinetic studies in Phases II through IV human programs. Studies will include single and multiple dose kinetics, bioavailability, bioequivalence, kinetics in disease states, and drug-drug pharmacokinetic interactions.

Requirements include a Ph.D in Pharmacokinetics/ Biopharmaceutics, recent graduate or up to three years' experience in industrial or academic research. Familiarity with oral controlled release, dermal, nasal, rectal, and opthalmic dosage forms is desirable. The ability to work effectively with researchers in related disciplines both with Syntex and in outside agencies is necessary.

Inflammation Biologist

You'll be responsible for developing new clinically relevant animal models of inflammation. To qualify, you must have a minimum of two years' postdoctoral experience with in vivo models of inflammatory diseases. Familiarity with the cellular aspects of such diseases is essential.

If you have good interpersonal skills and want to belong to a dynamic research team, send your resume to: Syntex, Professional Staffing, Dept. PS/SC, 3401 Hillview Avenue, Palo Alto, CA 94304. An equal opportunity employer.

Syntex
Positions Open

Toxicologist

Ricerca, Inc. is currently seeking a qualified toxicologist in its expanding Toxicology/Pharmacology Department to provide scientific support to our staff and to our clients. The successful candidate will prepare study proposals, study protocols and reports for acute, subacute and chronic safety evaluation studies. A Ph.D. in toxicology, pharmacology, or other biological sciences is required along with at least 3 years of toxicology experience in a contract laboratory or in industry.

Ricerca, Inc. is a research and development company which provides broad-based technical services to its clients on a contract basis. Our facilities are located in Concord Township, an attractive Cleveland, Ohio suburb. We offer competitive salaries, an excellent Employee Benefits Program, and are an Equal Opportunity Employer.

Interested parties should forward their résumés to: Andrew J. Pillar

Ricerca, Inc.
P.O. Box 1000
Painesville, OH 44077

Virus Structure-Function Relationships

Position at Research Associate (Post-Doctoral) or Instructor level to study cellular and biochemical events during uncoating, replication, assembly of enveloped viruses. Address inquiries to:

Dr. John Lenard
UMDNJ-Robert Wood Johnson Medical School
675 Hoes Lane
Piscataway, NJ 08854-5635

Assistantships

Graduate Study in Analytical Neurochemistry. Graduate Assistantships are available for research in biorechemical chemistry, with special emphasis in the development and applications of modern methods of neurochemical analysis. Areas of research include computer modeling of neurotransmitter synthesis, chemical kinetic studies, high performance liquid chromatography, and other applications to the chemistry and pharmacology of behavior. Opportunities exist for students to conduct interdisciplinary research in the Departments of Psychology and Chemistry. Research Assistantships at the Center for Disease Control involving neurochemistry and the environment are also available. Interested students with backgrounds in chemistry, biology, psychology, or psychiatry should contact: Dr. Joseph B. Justice, Department of Chemistry, Emory University, Atlanta, GA 30322. Telephone: 404-727-6585. Emory University is an Equal Opportunity Employer.

Graduate Assistantships in Evolutionary Biology leading to M.S. and Ph.D. are available for students interested in molecular to population level approaches to evolutionary processes at the individual, population and community levels. For more information write: Graduate Chairman, Department of Biology, University of Houston, 4800 Calhoun Road, Houston, TX 77004. The University of Houston is an Affirmative Action/Equal Opportunity Employer.

Graduate Training

Graduate Training in Biochemistry and Biophysics at the University of Hawaii. Join our active medical school department engaged in numerous research projects of interest and importance. Unique geographical and cultural setting. Predoctoral teaching and research assistantships available fall 1988 to qualified applicants. Write to: Chairman, Department of Biochemistry and Biophysics, University of Hawaii, Honolulu, HI 96822. An Equal Opportunity Employer.

Associate Director
Pharmacokinetics

Pfizer

An equal opportunity employer

Pfizer, a leading company in pharmaceutical research and innovation, has an opportunity for an experienced pharmacokineticist to join a multi-disciplinary drug development team of pharmacologists, toxicologists and clinicians in the Department of Clinical and Scientific Affairs. The successful candidate will design, initiate and monitor clinical and pre-clinical studies for pharmacokinetic, bioavailability and drug metabolism assessments. In addition, you will evaluate and summarize pharmacokinetic/pharmacodynamic data and prepare regulatory submissions. As pharmacokineticist, you will review pre-clinical and clinical data on drugs undergoing licensing evaluation and screen research proposals for scientific interest to Pfizer. Involves approximately 5-10% international travel.

The successful candidate will possess a PhD in Pharmaceutical Sciences or a Pharm D with 5-8 years of experience in pharmacokinetic/bio- pharmaceutics. You should be a self-motivator with excellent interpersonal, analytical, organizational and oral and written communication skills.

Explore this exceptional career prospect with Pfizer which includes competitive salary commensurate with experience, outstanding benefits and ample opportunity for professional growth. Send your resume with salary history to: Marjorie Feld, Personnel Associate, Pfizer Inc., 235 East 42nd Street, New York, NY 10017. Only candidates with appropriate backgrounds will be considered. No telephone inquiries accepted.

Ph.D. Immunoc hemist/
Biochemist

Abbott Laboratories. We’re a $4 billion healthcare leader worldwide. We’re responsible for the first AIDS detection test. We pioneered innovative breakthroughs in Hepatitis B, Rubella and German Measles. Our success in medical diagnostics continues to create exceptionally strong research environments. And now, our Cardiovascular Diagnostics Research Group seeks an Immunoc hemist or Biochemist to augment and expand these continuing research efforts.

The successful candidate will have completed a minimum of 3 years post-doctoral research in areas relating to hypertension, arteriosclerosis or thrombosis. Experience with the development, production and purification of monoclonal antibodies is required. Protein/enzyme purification experience is desirable. Immunoc hemist development experience preferred.

Abbott is recognized by Drum's Magazine as one of the nation's 5 best managed companies for 1986. We're headquartered in an attractive suburban area on the Lake Michigan shoreline, 30 miles north of Chicago. In addition to this outstanding scientific environment, we provide excellent salaries and full benefits including profit sharing, stock retirement plan, and relocation assistance, as well as exceptional opportunities for professional growth. For more information, please contact: Peggy Taylor/Corporate Placement, Dept. SM/11-20. Abbott is an Affirmative Action Employer.

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Several positions for research in individual laboratories in the Department are available for candidates who have demonstrated exceptional research promise at the predoctoral or postdoctoral level. The emphasis of research in the Department is in the areas of neuroanatomy, neurophysiology, and molecular biology. Outstanding applicants will be invited for seminar presentations. The faculty of the Department and research interests are:

Dr. Robert Blanks: Eye movement control.
Dr. Lyle Dearden: Growth in cartilage.
Dr. James Fallon: Chemical neuroanatomy.
Dr. Chris Gall: Chemical neuroanatomy, neural plasticity in development.
Dr. Roland Golli: Visuomotor system.
Dr. Stewart Hendry: Immunocytochemistry.
Dr. Paul Ittckson: Molecular neurobiology.
Dr. Edward Jones: Sensory-motor anatomy and physiology.
Dr. Leonard Kitzes: Auditory anatomy and physiology.
Dr. Charles Riba: Epilepsy, neurotransmitters and circuits.
Dr. Richard Robertson: Organization of the forebrain.
Dr. John Swett: Spinal cord and peripheral nervous system.

Applications or inquiries for additional information should be sent to:

Dr. Edward S. Jones, Chairman
Department of Anatomy and Neurobiology
University of California
Med Surge II, Room 384
Irvine, CA 92717

AN AFFIRMATIVE ACTION EQUAL OPPORTUNITY EMPLOYER

POSTDOCTORAL FELLOWSHIPS IN
THE DEPARTMENT OF ANATOMY
AND NEUROBIOLOGY
UNIVERSITY OF CALIFORNIA, IRVINE

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Irvine, CA 92717

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Positions Open
ImClone Systems Incorporated, an innovative, rapidly growing biotechnology company located in New York City, is seeking highly motivated individuals for vaccine development, generation of monoclonal antibodies and immunoassay development.

Immunologists
Positions are available at the doctoral and research associate levels for individuals with demonstrated skills in the generation of B and T cell hybridomas. Relevant industrial experience would be an advantage. Several positions are available at the B.S. level for persons with purification, PAGE, and immunodiagnostic assay formatting experience.

ImClone offers excellent salary and benefits, and a challenging, multi-disciplinary environment for scientists who can assume both individual and team responsibilities.

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

ImClone Systems Incorporated
MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION

21 to 26 February 1988

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, protein synthesis, covalent DNA, protein hormones, and cyclic nucleotides. 
Co-directors: W. T. Schrader and B. W. O'Malley 
Fee: $575 

For further information contact: 
Bonnie Cuthbert 
Department of Cell Biology 
Howard University 
Washington, D.C. 20485 
Telephone: 713-799-6200 
Deadline—29 January 1988

GRANTS

SUPERCOMPUTING RESOURCES AVAILABLE TO BIOMEDICAL RESEARCHERS AT THE PITTSBURGH SUPERCOMPUTING CENTER

Grants of supercomputing time on the Cray X-MP/48 at the Pittsburgh Supercomputing Center (PSC) are available to biomedical researchers through a program funded by the Biomedical Research Technology Program of the National Institutes of Health's Division of Research Resources.

Starter grants of three service units (roughly 3 hours of single-processor time) are available for feasibility studies or code curation and optimization. A limited number of larger grants of 20 service units are available to researchers with prior supercomputing experience. The proposed research must be biomedical and non-proprietary; grants must be faculty members or post-doctoral fellows. Graduate students may be designated as users on any grant.

Training: A 4 and 1/2 day workshop on supercomputing techniques for biomedical researchers will be held 22 through 25 June 1988. The workshop is aimed at experienced FORTRAN programmers, but prior supercomputing experience is not necessary. The topic includes an introduction to VMS (half-day, optional), the Cray-VAX interface, Cray job control, optimization techniques, an overview of available biomedical software, and a description of access paths to the PSC. Expenses for this workshop are covered under a grant from the NIH. A limited number of openings for industrially-based biomedical researchers may be available for a fee.

The deadline for workshop applications is 15 January 1988.

For application forms and additional information, call or write: Pittsburgh Biomedical Computing Coordinator, Pittsburgh Supercomputing Center, 4400 Fifth Avenue, Pittsburgh, PA 15213; telephone: 412-268-5005.

PROGRAM

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. Employe space 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.

SHANNON POINT MARINE CENTER (SPMC)

WESTERN WASHINGTON UNIVERSITY

SARRATURAL SUPPORT PROGRAM. SPMC invites applications for visiting faculty on sabbatical leave from home institutions. Funds are available 1 July 1988, to provide partial salary support to visiting faculty (up to $1250 per month). Support for individuals not requiring salary may include boat time and laboratory space. Applications must be postmarked by 15 February 1988. For more information and application procedures, write: Dr. Stephen D. Sutphin, Professor and Director, Shannon Point Marine Center, 1900 Shannon Point Road, Aiaucortes, WA 98221.

CONFERENCES

MOLECULAR AND GENETIC BASIS OF GROWTH AND DEVELOPMENT

22 to 23 February 1988, National Institutes of Health, Bethesda, Maryland, sponsored by the National Institute of Dental Research.

Topics to be covered by leading scientists include molecular mediators of growth and differentiation, nuclear regulation, molecular determinants of morphogenesis, and molecular models of normal and abnormal development. The concepts and techniques to be discussed are likely to foster remarkable progress in addressing research on human birth defects. 
Speakers: W. D. Baltimore, University of California, Berkeley; J. E. Clebeck, University of Oregon Health Science Center; J. G. Gihula, Peter Hanscheck, Rudolph Jaensch, Hynda Kleiman, Gail Martin, Darwin Prockop, Anita Roberts, Zelki Rassoulzadegan, Joseph Schlessinger, Harold Sklavin, J. L. W. C. Liu, Tsujihiko Yamada, and Keith Yamamoto. Attendance is free; advanced registration required. For registration information contact: Registrar, Postgraduate Associates, Suite 500, 1801 Rockefeller Pike, Rocksville, MD 20852, or call 301-448-3337 Monday to Friday, from 8:30 a.m. to 5:00 p.m., EST.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN APPLIED ECOLOGY AT MIAMI UNIVERSITY

Four or more fully funded postdoctoral positions in the Zoology Department are available. May begin in August 1988 or later. Those interested in conducting research on any of the following areas are invited to apply: Aquatic ecology, aquatic toxicology, behavior/ CNS-toxicology, and agroecosystem ecology. Appointments carry $20,000 annual salary, with full range of benefits. Applications must include: letter of support from advisor, curriculum vitae, and three letters of recommendation by 15 January 1988. For application forms and additional information contact: Dr. Neil Schneiderman, University of Miami, Behavioral Medicine Research Center, 1500 N.W. 12th Avenue 14th Floor West, Miami, FL 33136. An Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS FOR DOMESTIC ANIMAL BIOTECHNOLOGY

Outstanding applicants are encouraged to apply for an integrated Ph.D./D.O. program on the effects of reproductive and biotechnology and methods for diagnosis and prevention of infectious diseases, using techniques of immunology, molecular biology, molecular genetics, and genetic engineering. Multiyear, $15,000 annual fellowships include a statement of goals, interests, and relevant experience, and have complete college transcripts, GRE scores, and three letters of reference sent to: Dr. G. D. Niswander, Associate Dean for Research, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO 80523. Equal Employment Opportunity/Title IX Employer.

FELLOWSHIPS AVAILABLE AT THE UNIVERSITY OF CALIFORNIA, LOS ANGELES

Circle No. 12 on Reader Service Card
We are the worldwide research and development organization of a major pharmaceutical company, committed to excellence in the discovery and development of modern approaches to medical therapy. Our largest research and development center is located near Albany, New York with other facilities in the United Kingdom and France.

Our commitment is reflected in the Sterling Research Group's significant growth during the 1980's. We have built major new facilities, increased scientific staff and focused our research efforts. Our goal is to generate new ethical pharmaceuticals from the creative efforts in laboratory research and clinical development.

Currently we are seeking highly motivated scientists with appropriate academic backgrounds to become a part of a growing team of R&D professionals. Openings exist for experienced scientists as well as persons new to industry. If you are interested in scientific opportunities that will challenge you to utilize your fullest potential while contributing to the efforts of a talented research team, consider Sterling.

Career opportunities currently exist in the following areas:
- Molecular and Microbiology
- Toxicology and Pathology
- Cardiovascular and Immunopharmacology
- Organic and Analytical Chemistry
- Pharmaceutical Chemistry

Resumes may be sent to: Mr. William F. Sheldon, Employment Manager, Sterling-Winthrop Research Institute, Sterling Research Group, A Division of Sterling Drug Inc., Columbia Turnpike, Rensselaer, New York 12144.

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If you work with MAbs you may have an affinity with this simple system.

The attraction is only natural. It's not out to impress you but it certainly won't disappoint you. It's simply what you need and then some. It begins by automatically loading your sample. Then it proceeds to automatically release your product with a stepwise buffer change. And finally it automatically collects your product, with a minimum of dilution. And of course, the entire sequence is automatically recorded on a printer. At the heart of this simple system is the programmable HeliRac fraction collector, a Chromatography Control Interface and a unique valve configuration.

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Fraction size: 05:00
End time: 00:35
Fraction number: 5
Waste size: 00:00
Eq time: 00:00

Window 1 15:00—25:00
Valve 1 14:00—20:00
Valve 3 20:00—26:00
Pump 4 00:00—35:00
Valve 7 01:00—02:30

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