PERSONNEL PLACEMENT
LINE CLASSIFIED ADVERTISEMENTS

ASSISTANT PROFESSORSHIP—The Department of Veterinary Microbiology, College of Veterinary Medicine, University of Minnesota, seeks applications for a tenure-track position at the rank of Assistant Professor. The Department focuses on biotechnology and contemporary immunologic technology for controlling infectious diseases, virology, zoology, and comparative medical importance. The Department collaborates with campus researchers in molecular cell biology, medicine, agriculture, and biological sciences.

Requires a Ph.D. molecular virologist. D.V.M. degree is preferred. The position is tenure-track. An applicant must hold a Ph.D. molecular virologist. Applicants must have a Ph.D. and a track record of active research in molecular virology and instruction of graduate and professional (D.V.M.) students.

Applications will be reviewed beginning November 1, 1992, and will be accepted until suitable candidates are identified. Salaries negotiable.

Send curriculum vitae, names and addresses of three references, and a statement of professional goals to: Dr. James G. Thorne, Chair, Search Committee Department of Veterinary Microbiology 104 Concourse Hall University of Minnesota—Columbia Columbia, Minnesota 55611 Telephone: 612-624-6550 The University of Minnesota is an Affirmative Action/Equal Opportunity Employer/Educator.

ASSISTANT PROFESSOR MOLECULAR REPRODUCTIVE BIOLOGY

Applications are invited for a tenure-track position at the Assistant Professor level beginning in the fall of 1993 with a prim apportioned. Applicants should be recognized in the field of Urology and a joint appointment in the Department of Cell Biology and Neuroanatomy. Applicants must have a Ph.D. and two years of postdoctoral experience. We are seeking candidates who will establish an extramurally funded research program using cellular and molecular approaches to the study of normal and abnormal reproductive function and its interaction with other members of the departments who study the cell biology of the testis, epididymis, and sperm. In addition, the candidate will be expected to participate in teaching one of the basic medical courses offered by the Department of Cell Biology and Neuroanatomy and in the graduate program. Interested candidates should send their curriculum vitae, a statement of current and future research interests, and three letters of recommendation no later than September 1, 1992 to: R.V. Menken, Department of Cell Biology and Neuroanatomy, University of Minnesota, 4-135 Jackson Hall, 321 Church Street SE, Minneapolis, Minnesota 55455. Start date of the position is October 1, 1992. The University of Minnesota is an Equal Opportunity Educator and Employer.

A tenure-track ASSISTANT PROFESSOR position is available in the Laboratory of Reproductive Biology at the Section of Cell Medicine, Department of Medicine for a Ph.D. with at least two years of postgraduate experience. Demonstrated expertise and previous research in cellular/molecular biology applicable to lung biology is required. The candidate will be expected to develop an independent research program. Send curriculum vitae and names of three references to: Dr. Marc Fried, Section of Pulmonary and Critical Care Medicine (SL9), Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112-2699. Applications will be accepted until a qualified candidate is selected. Tulane University is an Equal Opportunity/Affirmative Action Employer.

The Department of Chemistry, Yale University, invites applications for a position at the ASSISTANT PROFESSOR level, effective academic year 1993. We seek bright teacher-scholars who show promise of developing outstanding research programs in the broad area of organic chemistry.

Applicants should send curriculum vitae, a statement of research interests, and three letters of recommendation. All materials should be received by January 15, 1993. Send applications and three letters of reference to: Professor F.B. Dwyer, Department of Chemistry, P.O. Box 6666, 225 Prospect Street, New Haven, CT 06511—8118. Yale University is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK, ASSISTANT PROFESSOR
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
VIRGINIA COMMONWEALTH UNIVERSITY

Tenure-track assistant professorship in the Department of Microbiology and Immunology at Virginia Commonwealth University. An individual with expertise in one or more areas of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics or immunopathogenesis.

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Microbiology and Immunology at Virginia Commonwealth University. The position will be tenure-track, and application should be submitted by September 1, 1993. The successful candidate will be expected to develop a research program in an area of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics, or immunopathogenesis.

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Microbiology and Immunology at Virginia Commonwealth University. The position will be tenure-track, and application should be submitted by September 1, 1993. The successful candidate will be expected to develop a research program in an area of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics, or immunopathogenesis.

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Microbiology and Immunology at Virginia Commonwealth University. The position will be tenure-track, and application should be submitted by September 1, 1993. The successful candidate will be expected to develop a research program in an area of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics, or immunopathogenesis.

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Microbiology and Immunology at Virginia Commonwealth University. The position will be tenure-track, and application should be submitted by September 1, 1993. The successful candidate will be expected to develop a research program in an area of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics, or immunopathogenesis.

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Microbiology and Immunology at Virginia Commonwealth University. The position will be tenure-track, and application should be submitted by September 1, 1993. The successful candidate will be expected to develop a research program in an area of contemporary immunobiology, including cellular or molecular immunobiology, immunogenetics, or immunopathogenesis.
How to solve the equation for success.

Pfizer is a lot more than a pharmaceuticals and healthcare industry leader. It's a group of people dedicated to discovering, developing and marketing innovative pharmaceuticals, animal health and specialty chemical products that improve the quality of life worldwide. As a Fortune 100 company, Pfizer is committed to continuing its remarkable growth by investing close to a billion dollars annually in research and development.

Research Scientists, BS/MS/PhD

**Molecular Genetics**—Skilled molecular biologists with a BS, MS or PhD and demonstrated experience in molecular biology and recombinant DNA techniques are needed to participate in all aspects of identifying new targets for drug discovery research in the areas of cancer, cardiovascular biology, neurobiology and obesity. A background in gene cloning, DNA sequencing and computer sequence analysis, and expression of cDNA sequences is highly desirable. *(Response Code KG)*

**Biomolecular NMR**—Interact with scientists at all levels in a lab equipped with an AMX-600 spectrometer, triple-resonance inverse probe, and an assortment of off-line processing hardware and software. Should possess a PhD in Chemistry, Biophysics or Biochemistry with an emphasis on NMR structure determination. Must be highly motivated with NMR experience in macromolecule structure determination, particularly of peptides, proteins, and protein-ligand complexes. Familiarity with multi-dimensional NMR of labelled systems is required, as is proficiency in NOE-based structure refinement. Postdoctoral experience in protein structure determination using NMR methods is highly desirable. *(Response Code CN)*

**Protein X-Ray Crystallography**—Our protein crystallography laboratory, supported by Pfizer's Cray Y-MP2E supercomputer, is equipped with a Siemens 18 kilowatt rotating anode source, four circle diffractometer and area detector with expected addition of another rotating anode source and additional diffractometers equipped with area detectors. Requires a highly motivated research scientist with a PhD and postdoctoral experience in protein X-ray crystallography. Additional academic or industrial experience is desirable. Should also be highly skilled in the use of state-of-the-art X-ray crystallographic methods to solve the three-dimensional structures of proteins and protein-ligand complexes. *(Response Code CN)*

Pfizer offers a stimulating scientific research environment with opportunities to interact with scientists from many disciplines. In addition, we have a competitive compensation/benefit package that includes relocation assistance to this southeastern Connecticut shoreline community. Please send a resume indicating position of interest, a description of your research experience and names of three references to: **Employee Resources Department, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340.** *(Please include response code on envelope.) We are an equal opportunity employer.
SCIENCE • VOL. 257 • 14 AUGUST 1992
"Both disciplines are drawn from studied observations and are performed in an atmosphere of high uncertainty, totally dependent on the strength of human imagination." —Dr. Guyn Morgan, SmithKline Beecham Pharmaceuticals Research and Development

The creation of great science depends on giving the finest scientific minds an arena in which to dare, explore and express themselves through the stimulation of peer collaboration and the support of a worldwide network of technology and data.

This is the environment of SmithKline Beecham Pharmaceuticals Research and Development. Our history has been marked by pioneer discoveries including the phenothiazine tranquilizers, the H2-receptor antagonists for gastrointestinal diseases, the identification of the 6-APA nucleus for beta-lactam antibiotics, the creation of the semi-synthetic penicillins, the first successful development of the 8-lactamase inhibitors to circumvent bacterial resistance and the development of the world's first genetically-engineered human vaccine against hepatitis B. These accomplishments have been recognized by the award of a Nobel Prize and twelve Queen's Awards in the U.K. since 1966.

We look to the future with great optimism and the opportunity to explore the yet unrevealed panorama of challenges in our quest for superior therapeutics. If you feel strongly about pursuing your career in a progressive environment, please send your resume to: SmithKline Beecham Pharmaceuticals, Research & Development, Dept. S8/92, P.O. Box 401, Conshohocken, PA 19428. An Equal Opportunity Employer, M/F/H/V.
Senior Scientists/Assistant Scientist

There are a number of components to success in the pharmaceutical research process. The most important is our people. At Schering-Plough, we hire the best talent in our industry. Then, we provide them with the technical resources they need to do their best work: the most advanced instrumentation; the latest computerized systems; modern lab facilities. Finally, we spend over $400 million annually on R&D, and are completing a $300 million R&D facility.

Commitment of this scope has helped us achieve over $3 billion in annual sales around the world.

**BIOTECHNOLOGY-CELL BIOLOGY**

**Senior Scientist**

Become a part of our multi-disciplinary team where our current focus of research is on Cytokine Biology and the discovery of lymphokine antagonists. Applicant should have a Ph.D. with 0-4 years' postdoctoral or industrial experience. Research in cell Biology is required; background in Cellular Immunology is highly preferred. Experience in Molecular Biology is a plus. Respond to Dept. 92-13.

Both positions offer highly competitive salaries, superior benefits, and all the challenge and growth potential an international industry leader can offer. Applicants should submit their CV, indicating position of interest to: George Cruba, Human Resources Dept., Schering-Plough Research Institute, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

**VIROLOGY**

**Assistant Scientist**

Your responsibilities will include establishing and running mechanistic screen/test systems for discovery of new anti-virals. Additionally, you will have the opportunity to work with our state-of-the-art robotics systems. The successful candidate will possess a BS in Biological Science with up to 3 years' experience. Your training should include laboratory in microbiology and sterile technique. Understanding of cell culture techniques is a plus. Respond to Dept. 92-31.

"MINORITIES IN SCIENCE...A SEARCH FOR SOLUTIONS"

13 November Issue

Cover Story in SCIENCE

In a first-time cover story, the 13 November issue of SCIENCE explores the complex problems and obstacles facing minorities as they work and compete in the scientific community.

**HIGHLIGHTS INCLUDE:**

**AFFIRMATIVE ACTION PROGRAMS, CAREER PROFILES, BARRIERS FACING MINORITIES, THE SEARCH FOR SOLUTIONS**

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Don't miss this first time advertising opportunity!

Contact Janis Crowley at (212) 496-7704.

Space Reservation Deadline: Tuesday, October 27

**INTERNATIONAL DEVELOPMENT PROGRAM OFFICER**

The National Research Council is seeking a program officer for its Board on Science and Technology for International Development (BOSTID). Responsibilities include advising and coordinating programs in developing countries related to agricultural and forestry research in the Third World. Requires Ph.D. or equivalent in agriculture/forestry/plant sciences (genetics, physiology, microbiology, pathology or related field); at least 2 years experience; and demonstrated capability to work effectively with U.S. and international experts and developing country scientists in cooperative research program management; broad knowledge of current agroforestry/silvicultural research in developing countries; Foreign language capability desirable; enjoyment of overseas travel essential. Salary commensurate with experience. Please send resume in confidence to: NRC/BOSTID, FO 2060, 2101 Constitution Ave., NW, Washington, DC 20418. EOE. Non-smoking environment.

**SEARCH REOPENED ASSISTANT/ASSOCIATE PROFESSOR CANCER PHARMACOLOGY/EXPERIMENTAL THERAPEUTICS**

The Department of Pharmacology, University of Tennessee College of Medicine, is seeking candidates with research interests in cancer pharmacology/tumor biology for an available tenure-track position. The person selected for this opening should be capable of establishing a laboratory program which utilizes the modern constructs of biochemistry, molecular biology, and/or cellular biology as applied to the study of problems of current relevance in cancer research. Studies on cell growth factors and regulation directly relevant to cancer therapeutics may be included. Candidates should possess the Ph.D. degree in Pharmacology, Biochemistry, or a related discipline, or the M.D. degree, and should have demonstrated excellence in research and a commitment to teaching. Candidates will be expected to participate in teaching of Pharmacology to professional and graduate students, in addition to establishing an independent research program. Applications from minority candidates and women are strongly encouraged. Please submit curriculum vitae, names of three references, and a brief statement of future research plans to: Dr. Mervyn Israel, Search Committee Chairman, Department of Pharmacology, University of Tennessee, Memphis, The Health Science Center, 874 Union Avenue, Memphis, TN, 38163. Search will continue until the position has been filled.
Research Scientist
in Water Resource Management Software

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Division of Water Resources, Canberra ACT, Australia

The Division undertakes applied and strategic research in water and related land resources and their management in Australia.

The Division's Resource Management Systems Group designs, develops and installs computer programs that assist water resource managers in their decision making. The Group integrates technologies such as expert systems, databases, decision support systems, geographic information systems and hydrological models into management packages. Recent applications have included soil loss, eutrophication and point source waste problems using PC and SUN computers.

We have a position for a highly motivated Research Scientist who can understand the practical problems of water managers and, as part of a small team, make a significant contribution to the design and development of innovative computer solutions and ensure that the programs are installed to the satisfaction of managers.

You should have a PhD or equivalent relevant experience with training in environmental, preferably water resource, management. You must have strong computing skills in some of the technologies listed above. Experience in team research and training in management sciences are highly desirable as is proven ability in scientific communication.

This is an indefinite position. If you possess the above qualifications please contact Susan Cuddy on 61 6 246 5705, Email sue@helios.cbr.dwr.csiro.au or fax 61 6 246 5800. The full duty statement and selection criteria can be obtained from Carol Clyde on 61 6 246 5761 or the above fax number.

Please send written applications addressing the duty statement and selection criteria, including curriculum vitae, telephone contact number, the names of at least two referees (including their fax numbers), and quoting position number WRC00185C(US) to: The Personnel Officer, CSIRO Division of Water Resources, GPO Box 1666, Canberra ACT 2601 Australia by September 11, 1992.

Speakers and Session Chairs

Cytokines and cytokine receptors in health and disease

December 2-3, 1992
Masur Auditorium
National Institutes of Health
Bethesda, Maryland

Chairs:
Warren J. Leonard, M.D.
Joost J. Oppenheim, M.D.

The symposium is the nineteenth in a series titled "Frontiers in Basic Sciences That Relate to Heart, Lung, and Blood Diseases," and is focused on progress in basic science disciplines and transfer of such knowledge to clinical research programs. Experts will present recent research results, views on the state of the science, current problems, and possible future developments in the area of cytokines and cytokine receptors.

Presentations will be structured around the following topics:
- Biological effects of cytokines
- Regulation of cytokine gene expression
- Cytokine receptor structure and signal transduction mechanisms
- Cytokines in cardiovascular, pulmonary, and hematopoiesis systems

For further information and registration materials, please contact: Ms. Whethia Knight, Prospect Associates, 1801 Rockville Pike, Suite 500, Rockville, Maryland 20852, (301) 468-MEET.

Molecular Biologist

The Procter & Gamble Company has an immediate entry-level opening in the Corporate Research Division at the Miami Valley Laboratories in Cincinnati, Ohio. The position requires a Ph.D. in biochemistry or related discipline (with or without postdoctoral training) and must include demonstrated expertise in eukaryote molecular biology. Experience in cell biology and/or immunology is highly desirable. The successful candidate will work in a multidisciplinary group applying techniques of biotechnology to the area of bone and cartilage diseases.

Procter & Gamble is a world leader in the research, development, manufacture and marketing of a wide variety of consumer products in the health and beauty care, food and beverage, laundry and cleaning, and paper products areas. Annual sales exceed $30 billion, and the R&D budget is over $800 million.

We offer excellent opportunities for professional growth, with significant expansion under way in the pharmaceutical area. We provide competitive salaries and benefits packages placing us among the top 5% of U.S. firms.

Please send resume and publication list to:
Dr. N. G. Howell, Dept. CO1
The Procter & Gamble Company
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No agency referrals, please. An Equal Opportunity Employer.

Sponsored by the National Heart, Lung, and Blood Institute
Postdoctoral Positions in HIV Research

Two postdoctoral positions are available at the PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, to work on the molecular biology and biochemistry of HIV. The successful candidates for these positions will participate in a National Cooperative Drug Discovery Grant, “Molecular Interventions for AIDS”, centered at the University of Michigan.

The two positions are:

- Molecular Virolgist - Requirements include Ph.D. in molecular biology, virology or related area. The projects will involve expression of HIV proteins in mammalian cell systems and study of their functions in cells.
- Biochemist - Requirements include a Ph.D. in biochemistry or related area. The project will involve site directed mutagenesis and gene expression in E. coli; followed by enzyme isolation and characterization.

Relevant experience and a strong publication record are requirements for both positions.

Because of the interdisciplinary and collaborative nature of these projects, strong communication skills are essential. Each of these positions offers a unique opportunity to work in an active virology program within a major pharmaceutical company; plus extensive interactions with students, postdocs and faculty involved with HIV and gene therapy at the University of Michigan.

Interested scientists should send a curriculum vitae and three references to PARKE-DAVIS Pharmaceutical Research Division, Human Resources, Box JDM-PDLP, 2800 Plymouth Road, Ann Arbor, MI 48105. “Smoke-Free Work Environment”

PHARMACOLOGY
DEPARTMENT OF PHARMACOLOGY
FOX CHASE CANCER CENTER
PHILADELPHIA, PENNSYLVANIA

An ASSOCIATE MEMBER (equivalent Assistant Professor) tenured track position is available. The candidate should hold a Ph.D., M.D. or equivalent degree and have demonstrated ability for independent research and attract extramural funding. Although the position is not restricted to any specific discipline, individuals with research interests in molecular pharmacology, metabolism, pharmacogenetics or drug development related to cancer therapeutics are encouraged to apply.

No formal teaching obligations are involved. Applicants should submit curriculum vitae, a brief statement of research interests and career plans and the names of three references to: Personnel Department—MAS, Kenneth D. Tew, Ph.D., Chair, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

The Swiss Federal Institute of Technology in Zurich (ETHZ) invites applications for a new

CHAIR IN ENVIRONMENTAL SCIENCES

The new professor is expected to be experienced in some environment-related scientific disciplines and possess a solid record in tackling environmental problems. The professor is expected to participate in trans-disciplinary research on the causes of environmental problems and to contribute to the development of concepts related to the man-environment system in its entirety. The teaching side involves lecture courses for first or second year students. The main responsibility will be to develop and lead, in collaboration with other ETHZ professors and members of neighbouring universities and research institutes, a “Case Study Programme” for fourth year students. In this programme students are to confront complex real-world environmental issues, and learn to work as members of a multidisciplinary team.

Suitably qualified individuals are invited to apply and should forward their applications (including curriculum vitae, list of publications and a brief description of their ideas for this professorial post) no later than September 30, 1992, to the President of ETH Zurich, Prof. Dr. J. Niesch, ETH Zentrum, CH-8092 Zurich. In order to increase the number of women in top academic positions, the ETHZ specifically invites applications from women.

DIRECTOR OF THE CLINICAL RESEARCH CENTER, UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) MEDICAL CENTER—Applications are invited for the position of Program Director of the Clinical Research Center at the University of California, San Diego School of Medicine, effective January 1, 1993. Candidates must be active and funded clinical investigators with an M.D. degree in well-established investigative programs. Familiarity with NIH-funded COGs is desirable, as is administrative experience and evidence of academic leadership. Faculty appointment at the Associate Professor or Full Professor in the In-Residence series will be commensurate with candidate’s years of experience and based on UC pay scales.

Applications supported by curriculum vitae and a list of two to three potential references should be sent no later than September 15, 1992 to: JERROLD M. OLEFSKY, M.D., Chair, CRC Director Search Committee, University of California, San Diego, Department of Medicine (9111G), 9500 Gilman Drive, La Jolla, CA 92039. UCSD is an Equal Opportunity/Affirmative Action Employer.

SOUTHERN CONNECTICUT STATE UNIVERSITY (SCSU)

The Department of Biology invites applications for a full-time tenure-track FACULTY POSITION. Applicants must have a doctorate in animal physiology, university teaching experience preferred. The candidate would be expected to teach undergraduate animal physiology courses and graduate courses in human physiology, endocrinology and research methods. A letter of introduction describing one’s current interests, curriculum vitae, and three letters of recommendation should be sent to: Vernon A. Nelson, Department of Biology, Search #92-64, SCSU, 501 Crescent Street, New Haven, CT 06515, by September 25, 1992. SCSU is an Affirmative Action/Equal Opportunity Employer.

Upjohn
FERMENTATION MICROBIOLOGIST

The Fermentation Products Production Group is seeking an experienced microbiologist to work closely with staff from our Fermentation Plant and Bioprocess Research and Development Groups. The selected candidate will be responsible for the preparation and maintenance of cultures required for large-scale fermentations. This position will monitor key parameters and use judgement to implement changes during the fermentation process. A bachelor’s or master’s degree along with a background in industrial microbiology, fermentation and statistics is required.

Upjohn offers a very competitive compensation and benefits package including relocation assistance. The Kalamazoo area has a population of 225,000 and provides an excellent mix of cultural and recreational pursuits. Qualified candidates are invited to send their resumes (refer to position code #125 in your cover letter) to:

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Position #125
7000 Portage Street
Kalamazoo, MI 49001

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POSITIONS OPEN

The Swiss Federal Institute of Technology in Zurich (ETHZ) invites applications for a CHAIR IN MOLECULAR BIOLOGY

Research will focus on the fundamental aspects of the molecular biology, in particular the design, folding, structure and function of proteins and polypeptides. It is expected that the successful candidate will have a special interest in contacts and collaborative projects with the existing research groups in the field of structure determination by crystallographic and NMR methods.

Teaching duties comprise lectures and courses on the molecular biology, function and structure of polypeptides and proteins to students in biochemistry and biology at all university levels.

Please submit your application together with curriculum vitae and a list of publications to the President of the ETH Zurich, Prof. Dr. J. Nitsch, ETH-Zentrum, CH-8092 Zurich, no later than October 15, 1992. In its effort to increase the number of women in top academic positions, the ETHZ specifically invites applications from women.

DIRECTOR

GENETIC ENGINEERING FACILITY

The University of Illinois Biotechnology Center is seeking a Director for the Genetic Engineering Facility with responsibilities to oversee the operation and development of the Facility which provides oligonucleotide synthesis, protein sequencing, peptide synthesis, amino acid analysis, DNA sequencing, and related technologies. Qualifications include an M.S. or Ph.D. in Biochemistry, Chemistry, or a related science. Applicant must have extensive knowledge of protein and nucleic acid chemistry, be informed about new developments, and make recommendations about equipment acquisition and services. Director should have hands-on familiarity with the facility's equipment. Director trains and supervises technical personnel and manages budget. The position is a full-time, 12 month regular academic professional appointment. Salary is negotiable and commensurate with experience. The position is available September 21, 1992. Full consideration requires that applications be received by September 15, 1992. Send letter of application, resume and names of three references to: Dr. Janet Glaser, Associate Director, University of Illinois Biotechnology Center, 901 South Mathews Avenue, Urbana, IL 61801. Telephone: (217) 333-1695. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

The University of California, San Francisco School of Medicine. TENURED TRACK FACULTY POSITION IN THE PROGーE OF BIOLOGICAL SCIENCES. The Department of Orthopaedic Surgery and the Program in Biological Sciences of the School of Medicine, University of California, San Francisco seek a molecular cell and/or developmental biologist whose primary interest is in the organization and function of bone and cartilage as tissues. The successful candidate for this tenure track position should have a demonstrated expertise in connective tissue research primarily in osteogenesis and chondrogenesis. The successful candidate should be able to develop an active and independently funded research program and teach professional and graduate students.

Letters of application should be accompanied by curriculum vitae and bibliography, narrative description of plans for future research, and the names, addresses and telephone numbers of three references. Please send all material by September 15, 1992 to: Dr. Bruce Alberts, Chairman of the Search Committee, Professor of Biochemistry and Biophysics, Box 0448—HSE 920, University of California, Medical Center, San Francisco, CA 94143-0448 or Dr. David S. Bradford, M.D., Professor and Chairman, Department of Orthopaedic Surgery, University of California, Medical Center, San Francisco, CA 94143-0728.

POSTDOCTORAL POSITION available immediately to study functional roles of protein-DNA and protein-protein interactions in eukaryotic gene regulation. Recent Ph.D.'s in biochemistry or genetics with research experience in protein manipulation and/or DNA expression libraries are encouraged to apply. Please send curriculum vitae, description of research background, and names of two references to: Ms. Tina Jones, Department of Genetics, University of California, Davis, CA 95616.

THE OBJECTIVE ADVANTAGE.

The MITRE Corporation is an independent, not-for-profit system engineer and integrator working in the public interest. Through our Center for Civil Systems, MITRE provides the government with objective expertise in civilian systems development and engineering. Pursuing work in the areas of space, and energy, resources and environment, the Center is recognized as a major source for the innovative technology needed to solve tough, national systems problems. With the increasing complexity and size of systems challenges, the Center is being called on to support a wide spectrum of efforts including government regulatory, development and remediation projects, and NASA programs.

ANALYTICAL CHEMIST

Interact directly with clients and contractors as you perform reviews of hazardous waste sampling, analysis/work plans and statements of work, with additional responsibility for conducting laboratory audits and providing technical guidance to project managers. Qualifications include an MS or PhD in Chemistry, knowledge of QA and QC chemical measurements, and 8-10 years' experience in: hands-on analysis of environmental samples for organic and inorganic analytes; SW846 methods; laboratory audits; data review and validation. Proven ability to interpret environmental data is critical.

CHEMICAL/ENVIRONMENTAL/CIVIL ENGINEER

Review technical proposals and designs for remediation of contaminated hazardous waste sites, as well as develop and modify specifications for remedial design and action. In addition to an appropriate MS or PhD degree, candidates must have 7+ years' site remediation experience, and in-depth knowledge of remedial technology design principles, applications, regulatory requirements, and costs. Demonstrated ability to assess site conditions with respect to contaminant chemistry, geology and hydrogeology is essential.

Please forward resumes, indicating position(s) of interest, to: The Office of Human Resources, Section M814, The MITRE Corporation, 7525 Colshire Drive, McLean, VA 22102.

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MITRE Center for Civil Systems
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Special recruitment advertising section—Full-page ads will be placed within this editorial section located in the main body of the magazine (ROP), and will be included in the Harvey Research Study on reader retention. All other size ads will be placed in the traditional back-of-the-book section.

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NIH Research Festival, 24 & 25 September, Bethesda, MD
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ASCB Meeting, 15 to 19 November, Denver, CO

With a recruitment ad in SCIENCE, you are guaranteed a worldwide circulation of 155,000 qualified, paid subscribers, and a pass-along readership of over 465,000 total readers. SCIENCE, in its 112th year of publication, is the most respected journal in the industry, ensuring that your ad will be well-read.

For more information or to place your ad, please call Janis Crowley, Recruitment Advertising Manager,
212-496-7704
Reservation Deadline: Tuesday, 1 September 1992

CHAIRPERSON
DEPARTMENT OF CELL BIOLOGY

The Department of Cell Biology of UMDNJ-School of Osteopathic Medicine, seeks applications and nominations of distinguished academic scientists qualified to serve as the founding departmental chairperson. The School of Osteopathic Medicine has recently undergone a major expansion and is now in the process of constructing its new campus in Stratford, close to the cultural and recreational centers of Philadelphia, the Jersey Shore and the mountains.

The Basic Science Departments have an emphasis in molecular biology and cellular function, and are housed in a modern, fully-equipped research building. The new department consists of 6 faculty and is expected to grow to 15. The present faculty are young and vigorous and encompass research programs in cell signaling and neuronal growth regulation. The Department will have responsibility for the instruction of medical students in the disciplines of Anatomy, Histology, Neuroscience and Physiology.

We are seeking candidates who have an outstanding record of research achievements, are dedicated to high-quality educational programs and have administrative experience. Although we are seeking individuals with research interests in any area of modern cell biology, we are particularly emphasizing the recruitment of individuals with research interests in mechanisms of intracellular signaling or receptor action. Appointment will be made at the Professor level with a starting date as early as April 1, 1993 and no later than July 1, 1993.

Letters of application, CV and the names, addresses and telephone numbers of 4 references should be submitted to: Richard Schimmel, PhD, Assistant Dean for Basic Sciences, UMDNJ-School of Osteopathic Medicine, 401 South Central Plaza, Stratford, NJ 08084. UMDNJ, NJ's university of the health sciences, is an Affirmative Action/Equal Employment Opportunity Employer, m/f/h/v, and a member of the University Health System of New Jersey.

DIRECTOR
JAMES FORD BELL
MUSEUM OF NATURAL HISTORY

The Bell Museum of Natural History, University of Minnesota, Minneapolis, MN is seeking a Director. The major responsibilities of the Director will be to direct the publication of books, scientific papers, and curatorial activities of the Museum, to work closely with the Museum's Advisory Board, to lead in obtaining external support for research and public programs, and to represent the BMNH in the museum community. The current staff includes six faculty in the fields of invertebrates, ornithology, mammalogy, herpetology, ichthyology, and ethology, and Curators of Public Education, Exhibits, and Natural History Art. A new faculty curator in systematics will be hired with the help of the new Director.

The Museum has significant regional collections of major vertebrate groups and of mollusks and forams. Its world-class natural history dioramas and temporary and traveling exhibits on topical subjects. The Museum also has major holdings of natural history art. Public education programs serve a wide variety of audiences.

Candidate for the position of Director must qualify for tenure in a Department at the University of Minnesota. Other requirements are a Ph.D. or equivalent degree in an appropriate field of natural science, an excellent record for research and teaching, preferably in modern systematics, with a minimum of seven years university faculty and/or museum experience. Maintenance of an active, personal research program and time devoted to teaching is expected. In addition, a sound understanding of the importance of both academic and public aspects of natural history museums in university settings and a demonstrated interest in promoting the major disciplines served by natural history museums, including systematics, biogeography, and conservation biology, are essential. The director also needs a strong interest in promoting the use, care and growth of biological collections, administrative ability and aggressiveness in fund-raising, and dedication to further public awareness and understanding of the intimate relationship between humans and their environment. Salary commensurate with experience.

Applications must include a current curriculum vitae, a letter explaining your interest in the position and summarizing your qualifications, and the names, addresses and phone numbers of at least three references.

Applications with supporting material will be accepted until September 30, 1992 and should be sent to: Chair, Search Committee for Director, James Ford Bell Museum of Natural History, University of Minnesota, 10 Church Street SE, Minneapolis, MN 55455.

THE UNIVERSITY OF MINNESOTA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER.
Hoechst-Roussel Pharmaceuticals Inc., a fast growing subsidiary of Hoechst Celanese, a Fortune 100 chemical/pharmaceutical leader, has outstanding career opportunities for discovery scientists.

Working within an environment that fosters growth and creativity, the neuroscience research group is focused on the discovery of novel agents for the treatment of Alzheimer's Disease, Schizophrenia and Obsessive-Compulsive Disorders. In a state-of-the-art facility soon to be completed, candidates will develop, conduct and supervise new experimental approaches, and participate on multi-disciplinary teams, designed to advance new compounds through the drug discovery process.

Biochemical and Behavioral Pharmacology

SENIOR RESEARCH BIOCHEMICAL PHARMACOLOGIST

In vivo neurochemical techniques, including a strong background in HPLC, brain microdialysis, RIA and ELISA are highly desirable. Ph.D. in Pharmacology/Biochemistry and 1-2 years post-doctoral experience required. (Job # A)

SENIOR RESEARCH BIOCHEMICAL PHARMACOLOGIST

Neurochemical techniques including ligand binding and kinetics, protein and peptide isolation and cell culture experience are highly desirable. Ph.D. in Pharmacology/Biochemistry and 1-2 years post-doctoral experience required. (Job # B)

SENIOR RESEARCH BIOCHEMICAL PHARMACOLOGIST

In vitro neurochemical techniques, including a strong background in cyclic nucleotide and phosphorylation second messenger systems and cell culture experience are preferred. Experience with recombinant proteins is desirable. Ph.D. in Pharmacology/Biochemistry and 1-2 years post-doctoral experience required. (Job # C)

SENIOR RESEARCH BEHAVIORAL PHARMACOLOGIST

Evaluation of potential new therapeutic agents in animal behavioral models, including learning, memory, motivation and cognitive processing. A background including computerized data collection and analysis is desirable. Ph.D. in Behavioral Pharmacology and 1-2 years post-doctoral experience required. (Job # D)

Molecular Neurobiology

SENIOR RESEARCH MOLECULAR NEUROBIOLOGISTS (2 Positions)

Molecular cloning techniques and PCR technology background is required, as well as a broad knowledge of neurobiology. Previous transgenic experience a plus. Assignment will be at the Mount Sinai Medical School for the first year, then at the Bridgewater, N.J. site. Ph.D. in Biochemistry/Molecular Biology with 1-2 years post-doctoral experience required. (Job # E)

SENIOR RESEARCH MOLECULAR NEUROBIOLOGIST

Broad experience with biochemical techniques in cell biology, including peptide mapping, enzyme purification and mammalian tissue culture is required. Experience with mechanisms of neuronal protein degradation is preferred. Ph.D. in Biochemistry/Cell Biology with 1-2 years of post-doctoral experience required. (Job # F)

SENIOR RESEARCH MOLECULAR NEUROBIOLOGIST

Eukaryotic transcriptional regulation and protein expression experience required, as well as extensive knowledge of PCR and molecular cloning techniques. Background in virology or transgenics desirable. Ph.D. in Biochemistry/Cell Biology with 1-2 years of post-doctoral experience required. (Job # G)

RESEARCH MOLECULAR BIOLOGIST

Ability to perform a variety of enzyme studies and kinetic analysis is required. Knowledge of western blotting, protein purification and tissue culture desired. MS/BS in Biology, Biochemistry or related discipline required. (Job # H)

Chemistry

SENIOR RESEARCH CHEMIST

Design and synthesis of novel organic compounds for pharmacological evaluation and supervision of same. Ph.D. in Organic or Medicinal Chemistry with a strong background in organic synthesis, spectral interpretation and separation skills. 1-2 years post-doctoral experience preferred. (Job # I)

In our suburban corporate complex, you'll enjoy an excellent salary with a flexible benefits program, on-site fitness center, and a 401(K) savings plan. For prompt consideration, send your resume with salary history/requirements, and indicate the job letter of the position desired, to: Supervisor, Human Resources, Building L, Hoechst- Roussel Pharmaceuticals Inc., Post Office Box 2500, Routes 202-206, Somerville, NJ 08876-1256. An affirmative action employer M/F/H/V.
POSTDOCTORAL FELLOWSHIPS IN PROSTATE CANCER RESEARCH

Positions available for Ph.D. or M.D. with molecular biology, protein purification, immunology, and biochemistry and/or monoclonal antibody experience to work in laboratory investigating novel glycoproteins associated with prostate cancer. Current studies include protein purification, isolating cDNAs, RNA and DNA amplification, preparing recombinant proteins and synthetic peptides, epitope mapping, production of primary and second generation monoclonal antibodies, and immunoassay development. Send curriculum vitae with three letters of reference and statement of research interests to: George L. Wright, Jr., Ph.D., CENTER FOR UROLOGICAL ONCOLOGY, Eastern Virginia Medical School, 700 West Olney Road, Norfolk, VA 23507-1696. FAX: 804-624-2255. An Equal Opportunity/Affirmative Action Employer.

RECEPTOR BIOCHEMIST

Continued growth within Lilly Research Laboratories has created a job opportunity for a BS or MS Biochemist in the Biochemical Pharmacology Department.

The selected candidate will possess experience in receptor binding or signal transduction. A working knowledge of relevant techniques such as second messenger assays, kinase assays, molecular biology, or mammalian tissue culture would be desirable. A strong desire to discover new "breakthrough" drugs is essential. The successful candidate will develop new receptor binding assays, screen for new chemical leads in these assays, characterize active compounds for mechanism and specificity, and determine functional activity of these compounds in vitro.

We offer an attractive salary and benefits package. Please send resume to: Katie Carson, Corporate Recruiting, Dept. B-348, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. We are an equal opportunity employer and value diversity in the work force.

Lilly

POSITIONS OPEN

NUCLEAR ACID FACILITY MANAGER

Iowa State University invites applications for Manager of its Nuclear Acid Facility with at least six years or Ph.D. with at least three years of experience with nuclear acid instrumentation and computer operation is required. Individual should have the ability to interact effectively with the facility's personnel and clientele. The manager will operate and maintain new automated systems for DNA synthesis, sequencing, purification and analysis; administer the facility; supervise staff. Applicants should send curriculum vitae and three letters of reference by September 15, 1992, to: Dr. Walter R. Kell, 1210 Molecular Biology Building, Iowa State University, Ames, IA 50011 (FAX: 515-294-4629). Nationally competitive salary and benefits.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in Nutrient Control of Gene Expression. Available immediately to identify cis-elements and trans-factors that mediate the fatty acid inhibition of transcription of genes coding for lipogenic enzymes. Experience required in molecular biology techniques, particularly PCR, gel shift, dot blotting and cloning. Send curriculum vitae and letters of reference to: Dr. Steven D. Clarke, Department of Food Science and Technology, University, Ft. Collins, CO 80523; FAX: 303-491-7725. An Equal Opportunity/Affirmative Action Employer.

Asklund Laboratory for Toxicology and Industrial Medicine, Du Pont, has a POSTDOCTORAL POSITION available.

Postdoctoral position available immediately for a Ph.D. with extensive molecular and cell biology experience to participate in pulmonarystudies designed to elucidate toxicological effects of inhaled particulates. The position requires working knowledge of common molecular biology techniques, tissue culture methods and experience with ELISA and standard protein isolation techniques. Postdoctoral positions are one year assignments renewable for a second year upon mutual agreement. Excellent salary. Please submit curriculum vitae and cover letter to: David B. Warheit, Ph.D., Senior Research Toxiologist E. I. du Pont de Nemours and Company P.O. Box 8464, Wilmington, DE 19899

Du Pont is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION MOLECULAR ONCOLOGY PROGRAM

Postdoctoral position available in research laboratory investigating mitogenic pathways mediated by tyrosine kinases. Interested candidates should forward curriculum vitae and three letters of recommendation to: Gary D. Kruh, M.D., Ph.D., c/o: Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Telephone inquiries can be made by calling Dr. Kruh at (215) 728-5317. Equal Opportunity Employer.

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION. Available to study molecular interactions between human leukemia and immune cells and tumor cells, emphasizing characterization of cytokines from tumor and lymphocytes and molecular biology of the candidates. The candidates must have a recent Ph.D. or an equivalent degree and must be familiar with protein chemistry and biochemistry. Send curriculum vitae and names of three references to: J. W. Chiao, Department of Medicine, New York Medical College, Valhalla, NY 10595.

POSTDOCTORAL POSITIONS IN VISION RESEARCH—Training in: psychophysics; biochemistry and biophysics of transduction; retinal circuitry and blood flow; physiology of cortex, eye movements, and vision; imaging techniques; immunology and molecular biology of eye diseases. Integrated with other programs of the Mahoney Institute for Neurological Sciences. Write to: Dr. P. Sterling, Director, Vision Training Grant, 123 Anatomy/Chemistry Building, University of Pennsylvania, Philadelphia, PA 19104-4058. FAX: (215) 698-9871. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION in cerebral blood flow regulation and cerebral ischemia research, including therapy evaluation and autonomic function in cerebral ischemia, available immediately. National funded positions with competitive salary. Research will involve either 1) studying normal cerebral blood flow regulation and its application to cerebral ischemia, 2) potential therapies aimed at reestablishing flow after focal cerebral ischemia, or 3) autonomic and endocrine dysfunction during cerebral ischemia. Techniques for cerebral blood flow include positron emission tomography, laser Doppler flowmetry, or micro-thermal conductivity. A knowledge of animal physiology and surgery preferred. Send curriculum vitae, a summary of research interests, and three references to: Dr. Harold A. Chapman, Respiratory Division, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available at Brigham and Women's Hospital/Harvard Medical School to study the molecular biology of proteolytic enzymes and their role in macrophage differentiation and function. Experience in molecular biology, transgenic mouse techniques, cloning, and gel electrophoresis required. Apply to: Dr. Robert A. Anderson, 2161-104, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-5286. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available at Baltimore, Johns Hopkins University School of Medicine, for work in the Molecular Biology and Cell Biology Department. The successful applicants will be expected to develop an independent research program in an area related to the regulation of gene expression. Applications from individuals with Ph.D. or M.D. degrees are encouraged. Salary and benefits compatible with NIH Guide to Grant Awards. Send curriculum vitae, three letters of recommendation, and a list of research interests to: Dr. David J. Anderson, Department of Molecular Biology and Cell Biology, Johns Hopkins University School of Medicine, Baltimore, MD 21205.

An Equal Opportunity Employer.

POSTDOCTORAL POSITION in ENVIRONMENTAL STRESS MOLECULAR BIOLOGY is immediately available to work on the stress response and function of stress proteins in plants. Experience in molecular biology and/or protein biochemistry is required. Knowledge of plant biology is desirable. Send curriculum vitae and the names of three references to: Dr. Charles G. Hallett, Department of Environmental Horticulture, University of Florida, Gainesville, FL 32611. Telephone: 904-392-7804; FAX: 904-392-3870.

POSTDOCTORAL POSITION Immediately available for a biochemist/molecular biologist with Ph.D., M.D., or Ph.D./M.D. Research entails assistance in the design and optimization of a PCR diagnostics laboratory and design of new diagnostic PCR protocols relevant to human disease. Experience in basic molecular biology techniques and comprehensive theoretical understanding of nucleic acids preferred. Experience in PCR techniques is not a prerequisite but will be helpful. Salary competitively determined. Applicants should submit an application letter specifying their research interests and curriculum vitae naming two references to: Richard N. Re, M.D., Vice President and Director of Research Alton Ochsner Medical Foundation 1516 Jefferson Highway New Orleans, LA 70121

An Equal Opportunity Employer

POSTDOCTORAL POSITION available immediately to study evolutionary relationships of marine algae using gene sequence comparison. Molecular biology experience required, Ph.D. experience preferred. This research is part of a three year NSF EPSCoR grant awarded to the State of Maine. Send curriculum vitae and names of three references to: Dr. Robert A. Anderson, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME 04575. Equal Opportunity Employer.
INFORMATION SCIENTISTS

As a unit of Merck & Co., Inc., we are forging a new business organization to market a broad range of pharmaceutical products and services to identified managed-care systems, hospital buying groups and other defined market segments.

The Information Scientist is responsible for exceeding the medical information needs of a sub-set of customers with diverse needs in highly technical disease entity, medical economic and/or product information areas. If selected, you will represent our group to thought leaders within non-traditional and academic communities. You will identify, establish and maintain service relationships by providing up-to-the-minute, well-researched information to clinicians, investigators and institutions who impact on product purchasing decisions. We are seeking individuals with Pharm.D., Ph.D. and/or M.D. credentials who have highly developed interpersonal and computer skills as well as a commitment to public health and welfare.

We provide a highly competitive compensation and benefits package. For consideration please submit your resume with salary requirements and geographic preference to: Dept. SC, Z-62, P.O. Box 2069, Philadelphia, PA 19103. We are an affirmative action/equal opportunity employer, m/f/d/v.

MERCK
A Unit of Merck & Co., Inc.
**ONCOLOGY DRUG DISCOVERY M.D./Ph.D.**

The Pharmaceutical Research Institute of Bristol-Myers Squibb is developing a new program in Oncology Drug Discovery at their Princeton facility, headed by Dr. Bernd R. Seizinger. One of the major objectives of this program will be the elucidation of fundamental genetic and cell-biological mechanisms associated with cancer development, and the rapid utilization of these insights for the identification of novel targets for more specific anti-cancer therapies.

As part of these efforts, we are searching for a Director of a newly created Department of Molecular Drug Mechanisms. The major goal of this department will be the development of novel mechanism-based screening assays for a rational drug discovery, based on new insights into the cell-biology of cancer. Furthermore, the cellular action of anti-cancer drugs including drug resistance will be studied at the molecular level. Thus, the successful candidate is required to have an outstanding track-record in cellular and molecular biology, and/or molecular pharmacology (preferably both). An M.D., Ph.D., M.D./Ph.D., or equivalent degree is required.

A comprehensive benefits package and competitive salary will be offered. Qualified individuals should forward their resume to: BRISTOL-MYERS SQUIBB PHARMACEUTICAL RESEARCH INSTITUTE, Human Resources Department, 345-BM, P.O. Box 4000, Princeton, NJ 08543-4000. We are an equal opportunity employer, M/F/D/V.

Bristol-Myers Squibb Company

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**DEAN OF THE SCHOOL OF PHARMACY UNIVERSITY OF WISCONSIN-MADISON**

The University of Wisconsin-Madison continues its search for a Dean of the School of Pharmacy and invites applications and nominations for the position. The Dean is the chief academic and administrative officer of the School and is responsible for academic planning, personnel, budget, and physical facilities. The Dean reports to the Chancellor.

The School of Pharmacy offers B.S. degrees in Pharmacy, Pharmaceutical Sciences, and Pharmacology, and the Doctor of Pharmacy degree. Through the Graduate School, students may earn the M.S. degree in Hospital Pharmacy and the Ph.D. degree in the fields of Pharmacueticals, Medicinal Chemistry, Pharmaceutical Biochemistry, Pharmacology, History of Pharmacy, Social Studies of Pharmacy, Pharmacy Administration, and Continuing Education.

Candidates must have a successful record of scholarly achievement and accomplishments that meet standards for a tenured appointment at the rank of full professor at UW-Madison: a commitment to maintain and expand professional pharmacy education and pharmacy graduate and postgraduate instruction, research, public service and outreach activities; and possess strong leadership and management skills.

The position is available January 1, 1993. All applications and nominations received by September 15, 1992, will be considered. Submit materials to:

Professor Joseph Robinson, Chair
Search and Screen Committee
University of Wisconsin-Madison
134 Bascom Hall, 500 Lincoln Drive
Madison, WI 53706
Telephone (608) 262-3956

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

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**ENGINEERS, SCIENTISTS & TECHNICIANS**

**DNA Analysis Systems**

Biochemical Automation and Information Systems

Molecular Tool, Inc. is a biotechnology company located in Baltimore, Maryland that is committed to the development and commercialization of highly integrated DNA-based systems for the analysis of complex genomes and genetic loci. Together with a key industry partner, Molecular Tool has embarked on a significant development program for near-term implementation of a large-scale DNA analysis system.

Engineers, Scientists and Technicians are invited to apply for a position in a multi-disciplinary team that is shaping the future of DNA analysis technology. Candidates with experience in the following areas are encouraged to apply:

- **Automation and Instrumentation:**
  - Biochemistry process and/or laboratory automation
  - Robotics, liquid handling and analytical instrument development or implementation

- **Information Systems and Data Management:**
  - Information systems implementation, database management, and data analysis
  - Experience with laboratory information systems and biological data preferred

Situated on a campus of the Johns Hopkins University School of Medicine, Molecular Tool, Inc. offers a stimulating scientific environment, competitive salaries, an incentive program and medical insurance benefits. Interested candidates should send a resume together with the names of three references to Ms. Loretta Burrows, Molecular Tool, Inc., Alpha Center, Hopkins Bayview Research Campus, 201 Eastern Ave., Baltimore, MD 21224. An Equal Opportunity Employer.
The University of Texas Southwestern Medical School Announces
THE PEPR PROGRAM
INDEPENDENT RESEARCH FELLOWSHIPS for
PHYSICIAN-SCIENTISTS
The University of Texas Southwestern Medical School, with support from the Lucille P. Markey Charitable Trust, has established a program that is designed to replace or supplement the usual postdoctoral fellowship. This program will provide three years of support for independent research carried out by exceptional physicians/scientists in any aspect of biomedical science including the fields of Biochemistry, Genetics, Pharmacology, Molecular and Structural Biology, Immunology, Pathology, and Physiology.

Fellowship Terms
Three years of support for a fundamental research project that will be carried out in newly-constructed laboratories at Southwestern Medical School
— $70,000—$80,000 annual stipend, depending on qualifications
— $70,000 research support, which includes salary for a Research Assistant.
Junior Faculty Appointment.
Independent laboratory space.

Eligibility
People holding both M.D. and Ph.D. degrees required with the first of these degrees awarded no earlier than 1987.

Application
By September 30, 1992, please submit a one-page abstract of the research proposal, together with a curriculum vitae and names, addresses and telephone numbers of three referees.

By November 1, 1992, please submit a research proposal, not more than eight pages in length, in double spaced type. The proposal should be divided into Specific Aims, Background and Methods. It must include a full discussion of potential difficulties, both theoretical and practical, and suggest methods by which these difficulties might be minimized or avoided. Please also send reprints of papers published by the candidate.

Schedule
Candidate interviews—December, 1992.
Fellowships start—July 1, 1993.

Applications and inquiries should be addressed to:
Dr. Joseph F. Sambrook, McDermott Center for Human Development,
University of Texas Southwestern Medical Center, 5325 Harry Hines Blvd,
Dallas, Texas 75235-8591.
Telephone: (214) 688-7574 FAX (214) 688-7579.
The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer.

Two postdoctoral positions are available in the Sequencing by Hybridization (SBH) program, Biological and Medical Research Division, Argonne National Laboratory:

1. **GENOME STRUCTURE GROUP**
   (Dr. Radomir Crkvenjakov)

2. **INTEGRAL GENETICS GROUP**
   (Dr. Radoje Drmanac)

The participants will be involved in defining new genes and regulatory and repetitive elements using partial sequencing of cDNA and genomic clones by oligonucleotide hybridization; in developing new concepts for gene expression patterns and genome organization, functioning and evolution. SBH technology includes preparation of M13 libraries, PCR, dot-blot/Southern-blot hybridization with oligonucleotides, probe-set optimization and searching data bases (See Proc. Natl. Acad. Sci. U.S.A. 86, 10089-10093, 1991 and Science news article 253, p. 1489, 1991, for references). Postdoctoral applicants must have received their degree within three years of the appointment. Salary will be competitive, commensurate with background and experience. Highly motivated scientists with training in molecular genetics/biology are invited to send curriculum vitae, bibliography and the names of three references to:

Susan M. White, Employment and Placement, Box BIM-POSTDOC-55, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439-4833. Argonne is an equal opportunity/affirmative action employer.

**OPPORTUNITIES IN ANALYTICAL CHEMISTRY AND MOLECULAR BIOLOGY**

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research and development, has exciting scientific opportunities for the following:

**Bioanalytical Chemist**
An an integral part of our innovative team, the incumbent will perform established assays (i.e., protein sequencing) on project and program compounds and work towards the development of new and/or improvement of existing bioanalytical assays.

Requirements include a BS/BA or MS (or equivalent) in Chemistry, Biochemistry, Biology or related discipline, with 2+ years of current lab experience for BS level applicants. Expertise with protein sequencing, reduction and alkylation, and tryptic digestions is also required. Experience with protein chromatography would also be beneficial. (Refer to Job Code #1H19).

**Molecular Biologist/Biochemist**
As part of a research team, the selected candidate will perform experiments in protein chemistry and molecular biology, as well as assist in design, interpretation and modification of experiments and techniques. Requirements include a BS or MS (or equivalent) in Chemistry, Biochemistry, Biology or related discipline, with 3+ years of current laboratory experience for BS level applicants. Interest in carrying out structure/function and interaction studies of receptors and other proteins is highly desired. (Refer to Job Code #1H19).

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We provide a stimulating, innovative and rewarding work environment, as well as a competitive compensation/benefits/relocation package. For confidential consideration, please submit your resume indicating the appropriate job code number to: N. Hasson, Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

SmithKline Beecham Pharmaceuticals
Challenging the natural limits.
Glaxo Inc. Research Institute and the University of North Carolina at Chapel Hill present
The Fourth Annual Frontiers in Chemistry and Medicine Symposium
November 1–3, 1992
To Be Held At: The University of North Carolina at Chapel Hill
Friday Continuing Education Center

"Inhibition and Inactivation of Serine Thiol Proteases"
Robert Abeles, Brandeis University

"Targeting DNA and Transition Metal Complexes"
Jackie Barton, California Institute of Technology

"Academic Industrial Relations"
Ernest Ellel, University of North Carolina at Chapel Hill

"Why is the Spliceosome a Ribonucleoprotein Machine?"
Christine Guthrie, University of California-San Francisco

For registration and additional information call 919-941-3409 (Glaxo/Wanda Satterwhite) or 919-962-2172 (UNC/Becky Smith) or write to:
Ms. Becky Smith
Symposium Coordinator/UNC
CB #3290
University of North Carolina
Chapel Hill, 27599-3290

Molecular Biosystems, Inc. (MBI), is a leader in the development and manufacturing of contrast agents for medical imaging, including ultrasound and MRI.

**SCIENTISTS**

- Develop final formulations for MRI & CT products. Ph.D. in Pharmacy or Medicinal Chemistry w/ 5 yrs. lab experience formulating organic/inorganic based drugs for solubility & tissue specific delivery. Drug delivery systems & tissue targeting experience. Knowledge of pharmaceutical operations, sterilization & cGMP regulations.

- Develop analytical methodology in support of process & product development & assembling IND and NDA's. Ph.D. in Analytical Chemistry w/ 5 yrs. experience in analytical method development in pharmaceutical industry.

**RESEARCH ASSOCIATES**

Positions available which require a BS in Chemistry w/ 3 yrs. lab experience or a MS w/ 1 yr. lab experience and a background in one of the following areas:

- Familiarity w/ techniques in wet chemistry, analytical spectrophotometry and chromatography.

- Scale-up, formulation activities and methods development.

- Hands-on experience in HPLC, FTIR, AA, UV and autotitrinometry.

We offer competitive salaries, a comprehensive benefits package & a pleasant working environment. Qualified candidates should submit résumé with salary history to: Molecular Biosystems, Inc.
Human Resources Department A83-93
10030 Barnes Canyon Road
San Diego, CA 92121

An Equal Opportunity Employer

**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

Postdoctoral Position(s): One or two positions will be available in the Fall of 1992 to study the roles of the multiple G protein α, β and γ subunits in signal transduction. Major emphasis will be placed on expressing the subunits using the baculovirus/Sf9 cell system and reconstituting G proteins of defined subunit composition with receptors and effectors. A strong background in protein chemistry/molecular biology and an interest in hormone action are desired. Please send current vitae including the names of three references to: Dr. James C. Garrison, Department of Pharmacology, Box 448, University of Virginia Medical Center, Charlottesville, VA 22908.

**Agricultural Research Service** United States Department of Agriculture

**TWO POSTDOCTORAL POSITIONS IN MAIZE GENETICS.** Research Geneticist (Plants), temporary (two-year) positions, Plant Genetics Research Unit, Columbia, Missouri. Participate in development and establishment of a prototype database on the genetics of maize, and work cooperatively with investigators establishing databases for other plant species. The first position has responsibilities to develop representation and ongoing entry of genetic data on analysis of measurable traits, pest responses, and stress responses. The second position has responsibilities on the genetic variants of maize, to develop compilation and ongoing entry of gene functions, gene mapping data, and cloned genes, and to map genes and to exchange information among cooperators in comprehensive, molecular-marker mapping of genes. Background and experience in maize genetics is essential for either position; for the first position, a Ph.D. and broad background in plant breeding/crop science is required; for the second position, a Ph.D. in relevant biology or genetics and experience in genetic analysis, mapping, and biochemical/molecular research are required. Skill in data handling, and database experience, are desirable. Salary: $32,423 to $38,861 based upon qualifications. Applicants must refer to No. 2N062. Send curriculum vitae and three references to: Dr. E. H. Cooke, ARS, USDA, 210 Curtis Hall, University of Missouri, Columbia, MO 65211. Telephone: 314-982-2768. USDA is an Equal Opportunity Employer.

**COLUMBIA UNIVERSITY CENTER FOR RADIOLOGICAL RESEARCH**

**POSTDOCTORAL POSITION** available immediately to join an active research group studying the molecular mechanisms of radiation carcinogenesis using human cell culture. Ph.D. in genetics, cell biology or related fields with experience in molecular biology are encouraged to apply. Send curriculum vitae, names and addresses of three references, and a brief statement of research interests to: Dr. K. H. Hei, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, New York 10032. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIP**

A postdoctoral fellowship is available to study signal transduction for cytokines and hormones including tumor necrosis factor-α, interferon-α, and interleukin-1 and -2. Signal- ing will be assessed with respect to models of differentiation and neoplasia. Salary is $30,000 per year. Please send curriculum vitae to: Dr. Richard Kolesnick, Head, The Laboratory of Signal Transduction Memorial Sloan-Kettering Cancer Center 1275 York Avenue New York, NY 10021

**POSTDOCTORAL RESEARCH FELLOWSHIP POSITION** available immediately to study the genome flexibility and mechanisms involved in antiviral variabilities of C. elegans, specific biology and addressing their biological role in host-parasite interaction, transmission and possible virulence. Experience in molecular biology and cell biology is preferred. Please send curriculum vitae and three letters of recommendation to: Dr. Mary G.S. Lee, VC 15-219, Division of Tropical Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University takes affirmative action to ensure equal opportunity.
KARNOFSKY FELLOWSHIP

The Karpofsky Fellowship, an endowed fund established by the late Dr. Louis Karpofsky, is designed to provide financial support for promising investigators in the field of cancer research. The fellowship offers a stipend of $50,000 per year for three years to support the investigator's research program. Applicants must be U.S. citizens or permanent residents and must have completed a Ph.D. or M.D. degree within the past five years. The fellowship is renewable for up to three years, subject to satisfactory progress.

The fellowship is available to investigators who are at the junior level of accomplishment and wish to gain further experience and expertise in one of the biomedical research specialties available at St. Jude. The fellowship is intended for researchers who are interested in pursuing careers in cancer research and are committed to contributing to the field of cancer biology.

The fellowship is available immediately. Send inquiries to:

Allan Grannoff, Ph.D.
St. Jude Children's Research Hospital
P.O. Box 318
Memphis, TN 38101-0318

POSTDOCTORAL FELLOWSHIPS

The Johns Hopkins University School of Medicine invites applications for postdoctoral fellowships in neuroscience and molecular biology. The fellowship is intended for scholars who have earned a Ph.D. or M.D. degree and are interested in pursuing a career in biomedical research. The fellowship provides a stipend of $45,000 per year for two years, with the possibility of renewal for a third year.

The fellowship is available to researchers who are interested in pursuing careers in biomedical research and are committed to contributing to the field of neuroscience. The fellowship is available immediately. Send inquiries to:

Dr. Mark Donowitz
Department of Molecular and Integrative Pharmacology
The Johns Hopkins University School of Medicine
720 Rutland Avenue, Ross 918
Baltimore, MD 21205-2196
FAX: 410-955-9677

POSTDOCTORAL RESEARCH ASSOCIATE

The University of Queensland is seeking to appoint a Postdoctoral Research Associate in the area of plant biology. The position is available immediately and offers a salary of $60,000 per annum. The position requires a Ph.D. in plant biology or a related field. Send inquiries to:

Dr. John Doe
Department of Plant Biology
The University of Queensland
St. Lucia, Brisbane, QLD 4072
Australia
FAX: 61-7-3365-6888

RESEARCH TECHNICIAN positions are available to study bio-chemical mechanisms and influence of biological response modifiers on the uptake of radiculitis and related receptor-specific molecules in experimental tumors. Applicants are invited from Ph.D., M.D., or M.S. candidates with a strong background in immunology and animal models. Competitive salary is offered. Send resume and reference to:

Dr. M.L. Thakur, Nuclear Medicine
804 Main Building, Thomas Jefferson University
Philadelphia, PA 19107
Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer.
**DIRECTOR, MEDICAL AND SCIENTIFIC AFFAIRS**

Howmedica, a world leader in the development of implantable orthopaedic devices, and a subsidiary of Fortune 100 Pfizer Inc., has created a challenging research and medical advisory position within its worldwide R&D center based in Rutherford, New Jersey.

In this key position, you will apply your research and clinical expertise to issues of implant/tissue interactions; establish and manage research programs; provide scientific and medical counsel in the development of new products and technological assessments; review and advise on preclinical testing and clinical research protocols; liaison with the orthopaedic surgeon community and customers on scientific and medical matters.

The Director, Medical & Scientific Affairs reports to the Senior Vice President, Research & Development.

Qualifications include:

- MD degree with strong research experience; clinical experience in orthopaedics, rheumatology or pathology preferred
- Preferred research experience in bio-materials with work in the area of material/tissue/implant interactions
- Superior judgment and sensitivity in dealing with complex issues, and excellent communication skills with which to convey your findings and establish productive working relationships
- Experience with medical devices is a plus

Proven expertise in research is a prime consideration, although some clinical experience is essential.

In return, we offer a new 30,000 square foot state-of-the-art research facility, located less than ten miles from Manhattan. We offer an excellent salary, comprehensive benefits and the support of a well-respected, worldwide industry leader. For confidential consideration, please send your resume, indicating salary history and requirements, to: Ms. Maryann Anderson, Vice President Personnel, Howmedica, Inc., 559 Veterans Boulevard, Rutherford, New Jersey 07070. We are an equal opportunity employer.

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**WEST VIRGINIA UNIVERSITY HEALTH SCIENCES CENTER**

**CHAIRPERSON DEPARTMENT OF PHYSIOLOGY**

The WVU School of Medicine invites applications for the position of Van Liere Professor and Chairperson of the Department of Physiology. Applicants should have a Ph.D., M.D., or equivalent degree, a strong and continuing record in research and extramural funding, teaching experience, and administrative skills. Although not essential, research interests in neuro-, cardiovascular, renal, respiratory, or cellular/molecular physiology would fit particularly well with existing strengths in the Department of Physiology and the health sciences.

The search will remain active until the position is filled, and thus there is no formal application deadline. However, those applications received by September 15, 1992 will be assured of consideration during the first cycle of review. Applicants should send a curriculum vitae and the names of three references to:

William W. Fleming, Ph.D.
Chairman, Physiology Search Committee
Professor and Mylan Chairman of Pharmacology & Toxicology
WVU School of Medicine
Morgantown, WV 26506

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The opportunity to explore new realms. The opportunity to work with some of the top scientific teams in the country. The opportunity for support from one of the most exciting research driven companies in the world.

The Du Pont Merck Pharmaceutical Company in Wilmington, Delaware is seeking Research Scientists for the following positions:

**Pharmacology**
A principal investigator position exists for an individual who will become involved with the analysis of protein/protein and protein/drug interactions to support mechanism based programs within Inflammatory Diseases in the areas of arthritis and immunosuppression. Dynamic, team oriented work will involve the analysis and regulation of enzyme activity, receptor-ligand interactions and protein/protein interactions. We are looking for a scientifically driven and creative Ph.D. with at least two years of postdoctoral experience in the general area of physical biochemistry. Demonstrated versatility and previous experience in the analysis of enzyme kinetics and/or ligand-receptor interactions is preferable. Familiarity with animal models of rheumatic disease pathobiology and with immunological mechanisms is highly desirable. Dept. RSP.

**Molecular Biology**
A principal investigator position exists within our Inflammatory Diseases Research Molecular Biology group. The incumbent will be responsible for the development of an independent research project directed at molecular mechanisms of inflammatory diseases. Responsibilities will include experimental design and data analysis with the intent to discover novel drug targets for therapeutic intervention. The successful candidate will have an M.D., Ph.D., or equivalent experience with a demonstrated expertise in biochemistry/molecular biology with emphasis on gene regulation and cellular activation mechanisms. Experience in molecular and cellular models of rheumatic disease pathobiology particularly rheumatoid and osteoarthritis is highly desirable. Additional familiarity with lymphocyte activation and immunological mechanisms would be beneficial. Dept. RSMP.

We can offer the successful applicants competitive salaries and comprehensive benefits packages. For immediate consideration, please forward your resume including salary history and requirements, and listing department code indicated above to: Excalibur Human Resources, Dept. (code), P.O. Box 2249, Princeton, NJ 08543. NO PHONE CALLS, PLEASE. An Equal Opportunity Employer, M/F/H/V.

The Du Pont Merck Pharmaceutical Company
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POSITIONS OPEN

POSTDOCTORAL FELLOW

Position available to investigate the response elements required for endotoxin-induction of the interleukin-1 gene. Position is in south-northern blot analysis, reporter gene assays, gel mobility shift assays, transfection, etc. Level of Ph.D. degree, American citizenship, permanent resident or noncitizen national required. Forward curriculum vitae and names of three references to: Dr. Charles E. McCall, Department of Medicine, Microbiology and Immunology, Bowman Gray School of Medicine, Wake Forest University School of Medicine, PO Box 279, Winston-Salem, NC 27102-2790. FAX: 919-716-7492. We are an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY POSTDOCTORAL ASSOCIATE available to study the structure, function and development of the neuromuscular junction. Background in neurobiology or cell biology needed. Experience in immunoelectron microscopy, video-enhanced microscopy, intracellular recording, tissue culture and/or protein purification desirable. Send curriculum vitae and names of three references to: Dr. Chien-Ping Ko, Neurobiology Section, Department of Biological Sciences, University of Southern California, Los Angeles, CA 90089-2520.

PHARMACOLOGY

POSTDOCTORAL RESEARCH ASSOCIATES DRUG RESISTANCE

Openings exist in the Department of Pharmacology at the Fox Chase Cancer Center for two Postdoctoral Research Associates to participate in research programs focusing on mechanisms of resistance to anti-cancer drugs. The first involves cellular and molecular regulation of factors influencing responses to antituberculosis agents. Background in cell or molecular biology, biochemistry or pharmacology is preferred. The second is a joint industrial-academic venture which is designed to develop novel anthracyne S-transferase. Background in biochemistry, pharmacology, toxicology and a potential career interest in drug development would be valuable. Successful applicants will be exposed to a multidisciplinary faculty and strong emphasis is placed upon career development and interdisciplinary interaction. Salary and fringe benefits are attractive and competitive. Send curriculum vitae and names of three references to: Personnel Office—MAS, Kenneth D. Tew, Ph.D., Chairman, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS at CORNELL UNIVERSITY, ITHACA, NEW YORK

Study of controlling distribution of vitamin A derivatives between cells and subcellular compartments. Project area includes interactions of retinoic acid and nuclear receptor proteins, and membranes. Background in biochemistry/biophysics preferred. Send curriculum vitae and names/addresses of three references to: Dr. Noa Nov, Cornell University Medical College, E 281, 1300 York Avenue, New York, NY 10021.

RESEARCH ASSOCIATE needed by a southwestern Ohio University assistant in calibration of magnetic resonance imaging machines, X-ray machines and other radiology equipment in accordance with federal and state guidelines using a variety of radiology testing equipment and preparing drafts of reports on the calibration. Under supervision, repairs MR (magnetic resonance) machines. Provides technical assistance to researchers, executing various research experiments using magnetic resonance systems within the Division of Medical Physics. Assists in developing and constructing various types of RF coils for (M) scouts. Bachelor’s degree in Biological or Medical Physics is required. Education must also include undergraduate or graduate background in engineering as evidenced by bachelor’s degree in engineering or graduate degree in medical physics obtained from an engineering department. Graduate education must have included a course in Magneto Imaging. 8:00 a.m. to 5:00 p.m., Monday to Friday, 40 hours per week, $30,000.00 per year. Must have proof of legal authority to work permanently in United States. Send resume in dupli cate (NO CALLS) to E. Blackburn, 120308S0, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSITIONS OPEN

POSTDOCTORAL--RESEARCH ASSOCIATE

Department of Pharmaceutical Sciences, College of Pharmacy, University of Arizona. Requirements: Ph.D. in analytical, pharmaceutical, or medicinal chemistry with experience in chromatography or NMR. Several positions include development of insoluble or unstable drug formulations. Salary: $22,000 per year. To apply: Send curriculum vitae and three letters of recommendation to: Dr. S.H. Yalkowsky, College of Pharmacy, University of Arizona, Tucson, AZ 85721. Resume review will begin August 1992. POSTDOCTORAL FELLOW will remain open until filled. THE UNIVERSITY OF ARIZONA IS AN EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

POSTDOCTORAL RESEARCHER (ANTICIPATED)

Ph.D. in botany, biology, biochemistry or related area and extensive experience in physiology, biology, clastidic analysis or DNA sequencing required (experience in two or more of these areas desired). Primary responsibility: to conduct DNA sequencing and computer-assisted clastidic analysis. Position available: 1 September 1992; annual reappointments possible through May 1995. Submit curriculum vitae and three letters of recommendation to: Dr. Russell L. Chapman, Department of Botany, Louisiana State University (LSU), Baton Rouge, LA 70803-1705. Telephone: 504-388-8483; FAX: 504-388-8499; EMAIL: BTRUSS@LSUVM, LSU is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE DEPARTMENT OF SURGERY

Position available for RESEARCH ASSOCIATE with interest in endothelial cell biology, immunology and molecular biology. Search committee chaired by Judy Thomas, Ph.D. Primary laboratory interest in interactions of endothelial cell in transplant rejection, both allograft and xenograft. Requirements: Master's degree or equivalent; Ph.D. preferred. Curriculum vitae to: Dr. Carl Haisch, Division of Surgical Immunology and Transplantation, East Carolina University School of Medicine, Brody Building 4510, Greenville, NC 27858. Federal law requires proper documentation of identity and employability prior to final consideration for this position. East Carolina is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PLANT MOLECULAR BIOGIST—Position available immediately. Candidate must have good communication skills and be familiar with transgenic analysis (PCR, Southern and ELISA), marker/trait linkage (RAPD) and DNA fingerprinting (RAPD). The position requires Master's in Biological Science or equivalent experience. Please send resume and names of three references to: Dr. P.D. Harris Moran Seed Company, 100 Breen Road, San Juan Bautista, CA 95045. An Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTIST in the Department of Neurology, College of Physicians and Surgeons of Columbia University. Applicant must hold Ph.D. in one of the biological sciences with subsequent postdoctoral training or documented experience with cellular immunology and molecular biology. Preference given to individuals with research experience studying immunoglobulin genes and using transgenic animals. Salary based upon experience and credentials. Write to: Norman Latov, M.D., M.I., New York Neurological Institute, 710 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

SENIOR RESEARCH SCIENTIST: (ten openings) earn a competitive starting salary, fringe benefits, including health, retirement, and guidance algorithm development, computer-aided control system design, flight simulation, advanced system design and control research, model development and validation, system integration and prototype implementation. Ph.D. in computer or physical sciences, applied math or electrical engineering required plus one year of experience or Master's plus four years of experience. Experience must have included all aspects of job offered. $4800 per month. Location: Chatsworth, California. Send this ad and current resume to: Electronics and Control, 9131 Mason Avenue, Chatsworth, CA 91311 no later than 31 August 1992.

SCIENCE • VOL. 257 • 14 AUGUST 1992
Los Alamos National Laboratory

For over four decades, Los Alamos National Laboratory has challenged the frontiers of science, combining basic sciences with engineering and technological advances.

Program Director

Provide leadership and direction for the research in biological and environmental research programs, to help meet the needs of the Laboratory, the Department of Energy and the Nation. Requires significant accomplishments in these areas and the ability to lead and manage multidisciplinary efforts. Ph.D. with demonstrated expertise in biological, physical or medical sciences or equivalent combination of education and experience.

To formally apply for this position, interested candidates should forward a resume to Cathy Majerus (MS P280), Personnel Services Division 20242-Al, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Must be able to obtain a Department of Energy Security Clearance. Los Alamos National Laboratory is operated by the University of California by the U. S. Department of Energy.

Los Alamos National Laboratory

Having a unique advantage in the world of pharmaceutical research, PARKE-DAVIS Pharmaceutical Research Division, to lead an innovative, exploratory research group whose mission is to use organic chemistry as the basis for identifying and developing novel, broadly applicable strategies to drug discovery. Current efforts include molecular diversity and novel methods for controlling gene expression. Collaborations with international leaders in nucleic acid, synthetic organic, bioorganic, and peptide chemistry have been established to augment ongoing efforts.

In addition to a Ph.D. in Chemistry, the successful candidate will possess excellent leadership qualities, and the capability to lead a group of highly independent and creative scientists. He/she will have a high level of creativity, and will have significant accomplishments in a number of diverse research areas, e.g. synthetic organic chemistry, nucleic acid chemistry, peptide chemistry, molecular biology, antibody techniques, and/or diagnostics. In addition to coordinating current efforts, he/she will be expected to identify and pursue totally novel research directions. A proven ability to initiate and coordinate collaborations with international academic centers of excellence is also a requirement for this position.

Interested individuals should forward their C.V. and list of references to Human Resources Box JDM-JB, PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Co., 2800 Plymouth Rd., Ann Arbor, MI 48105. "Smoke-Free Work Environment"
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You'll guide and supervise a group of 2-4 scientists engaged in automation/method development and investigation of analytical failures, applying GMP requirements and performing necessary documentation, tracking and reporting for all projects. A B.S. in Chemistry with at least 10 years experience, an M.S. and 6 years experience, or a Ph.D. and 2 years experience is required. Additionally, at least 2 years supervisory experience is needed, as is comprehensive knowledge of analytical techniques which emphasize HPLC, an understanding of GMPs and good written/verbal communication skills. Familiarity with LIMS is also desired.

Your skills and experience in this area will be rewarded with a competitive salary and comprehensive benefits package within a highly supportive and sophisticated working environment. To be considered, please forward your resume and salary history to: John P. Savas, Senior Personnel Representative, Dept. 400SCI, MILES INC., P.O. Box 40, Elkhart, IN 46515.

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FACULTY POSITIONS IN BIOCHEMISTRY

St. Jude Children's Research Hospital

St. Jude's Children's Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building which opened in August, 1991, provides 240,000 square feet of new laboratory space to house the institute's basic science programs. As part of the expansion, new faculty positions are now available in the Department of Biochemistry. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with basic research programs in Virology and Molecular Biology, Immunology, Tumor Cell Biology and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to:

Dr. James N. Ihle, Chairman
Department of Biochemistry
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105 USA

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Professorship

Department of Atmospheric, Oceanic, and Space Sciences
University of Michigan

The Department of Atmospheric, Oceanic, and Space Sciences is seeking a tenure faculty member to lead the College of Engineering Global Change initiative and to be a senior member of the department. A suitable candidate will likely be described by the following list of attributes:

The candidate will be an established leader in one of the sciences related to global change with a record of solid, recognized achievements in scientific research. He/she will have made contributions to a range of disciplines that demonstrate an interest in understanding the Earth as a system and a manifest concern for the impact of human activities on the system. The candidate will have demonstrated excellence in teaching. It is also desirable that the interests of the candidate extend to matters of public policy expressed through service in leadership roles in professional societies as well as national and international advisory bodies. Candidates should send, by Sept. 1, 1992, a curriculum vitae, and names of five references to Prof. Thomas M. Donahue, Department of Atmospheric, Oceanic, and Space Sciences, 2455 Hayward Street, University of Michigan, Ann Arbor, Michigan, 48109-2143. The University of Michigan is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

Biopharmaceutical Leader

Somatogen, a biopharmaceutical company currently engaged in the development and manufacture of recombinant human hemoglobin, has opportunities in Research & Development:

Peptide Chemist Responsibilities include synthesis and characterization of peptides and peptide analogs for a variety of uses, using manual and automated solid phase BOC and FMOC syntheses.

Applicants should have a B.S. or M.S. in Chemistry (preferably organic chemistry) and 2-3 years related experience. Experience in protein chemistry and protein-peptide interactions would also be helpful.

Scientist The successful candidate will have a Ph.D. in Molecular Biology or Biochemistry with a minimum of three years post-doctorate experience. This position requires experience in protein/protein and protein/DNA interactions, eucaryotic and/or procaryotic transcription factors as well as knowledge of X-ray crystallography.

A competitive salary and benefits package with equity complements this offer. Interested candidates may submit a resume and cover letter with job title of interest to:

Nancy Borne, Manager of Professional Development.

SOMATOGEN 5797 Central Ave., Boulder, CO 80301

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UNIVERSITY OF CONNECTICUT HEALTH CENTER
UNIVERSITY OF CONNECTICUT SCHOOL OF MEDICINE

DEAN

The University of Connecticut Health Center in Farmington, Connecticut invites nominations and applications for the position of Dean of the School of Medicine. The Health Center is composed of the Schools of Medicine and Dental Medicine and John Dempsey and Uncas on Thames Hospitals. The Dean is the Chief Executive Officer of the School of Medicine and reports to the Vice President and Provost for Health Affairs.

The School of Medicine has missions in education, research, clinical care, and community service. In these programs, the School is in partnership with its affiliated hospitals within the greater Hartford area which represent the spectrum of urban, community, and tertiary care medicine. The School offers a wide range of Ph.D. programs in the biomedical sciences and a Masters of Public Medicine and advocates for its programs within the University, as well as the professional and lay communities. In order to advance its educational mission and commitment to improving the health care of state residents, the School of medicine is currently revising its educational, research and clinical programs while expanding the supporting clinical and research facilities.

Nominations and curriculum vitae should be submitted by September 1, 1992 to:

Leslie Wolfoon, M.D.
Chair, Search Committee for the Dean
University of Connecticut School of Medicine
Farmington, CT 06030-1845

Postdoctoral Position: Developmental Toxicology

The Procter & Gamble Company has a postdoctoral position available at the Miami Valley Laboratories in Cincinnati, Ohio, to study the role in teratogenesis of chemically induced metallothionein synthesis and/or hepatic acute phase response in the pregnant animal.

The laboratory takes a diverse approach (molecular, biochemical, physiological, embryological) to the study of this and other teratogenic mechanisms. Candidates with experience in toxicology or developmental biology are preferred. Our laboratory is part of a large group carrying out basic research in toxicology in a collegial atmosphere where publishing results is stressed.

Salary is based on a competitive industrial scale. Applicants must be presently authorized to work in the U.S. Send CV, representative publications, and names of three references to:

Dr. N. G. Howell, Dept. GD
The Procter & Gamble Company
P.O. Box 398707
Cincinnati, Ohio 45239-8707

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LAB SCIENTIST for waste to fuel co-processing facility in southwestern Ohio. Conduct analyses and procedures on organic and inorganic substances to determine and evaluate chemical and physical properties. Investigate samples from co-processing sites for toxicity characterizations. Requires a Ph.D. in Hazmat Chemistry, molecular biology or a related field and, preferably, have experience with in-vitro systems. Send curriculum vitae and the names and addresses of three references to: Mr. Howard B. Lieberman, Center for Radiological Research, Columbia University, 630 West 18th Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLeST. Franciscan Shared Laboratory, Inc. Franciscan Shared Laboratory, Inc., an independent clinical laboratory serving the Greater Corvallis area, has an immediate opening for a highly motivated Molecular Biologist. This is a unique opportunity for a Ph.D. with two years of postdoctoral experience in molecular biology with emphasis in cancer research and computer analysis. Send curriculum vitae and references to: Robert A. Braun, Personnel Manager, Franciscan Shared Laboratory, Inc., 11020 West Plank Court, Suite 100 West Linn, OR 97068. Equal Opportunity Employer.

RESEARCH SCIENTIST DIVISION CANCER RESEARCH. The Division of Cancer Research at Ribi ImmunoChem Research, Inc., invites applications for a position at the Research Scientist level. Candidates should have expertise in cellular immunology and cancer research to study aspects related to tumor antigen identification and isolation. Applicants must have a Ph.D. plus two years of postdoctoral experience. The successful candidate will be expected to participate in ongoing research projects and to develop an independent program in the area of cancer immunotherapy. Send letter of interest, curriculum vitae, bibliography, and three references to: Human Resources Manager, 553 Old Corvallis Road, Hamilton, MT 59840. Equal Opportunity Employer.

SENIOR LABORATORY TECHNICIAN. Senior Laboratory Technician needed to study the immunologic consequences of adolescent alcohol abuse. Responsibilities include performing high level laboratory procedures, including phenotype analysis by FACS, cell-mediated lymphocyte proliferation, and development and maintenance of research systems. Send letter of interest, curriculum vitae, bibliography and three references to: Human Resources Manager, Ribi ImmunoChem, 553 Old Corvallis Road, Hamilton, MT 59840. Equal Opportunity Employer.

PH.D.—PHARMACOLOGY. The Product Development Division at Ribi ImmunoChem Research, Inc., invites applications for a position at the RESEARCH SCIENTIST level. Candidates should have experience in cellular immunology with management responsibilities and technical skills. Excellent experience with immunochemistry, in-vitro cytotoxicity, ELISA and immunoblot desirable. The successful candidate will be expected to: be the product advocate for tumor vaccine development projects. Applicants must have a Ph.D. in related scientific discipline with two to five years of industry experience. Send letter of interest, curriculum vitae, bibliography and three references to: Human Resources Manager, Ribi ImmunoChem, 553 Old Corvallis Road, Hamilton, MT 59840. Equal Opportunity Employer.

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