POSITIONS OPEN

ASSISTANT PROFESSOR. A new tenure-track position will become available on August 1991 for qualified individual who has demonstrated the ability to carry on an independent, vigorous and productive research program particularly in one of the following areas: control of enteric infection, biochemistry, protein structure and function, membrane structure and function. Required qualifications are a Ph.D. degree in biochemistry or a related field, two or more years of postdoctoral training, and an established record of research productivity. Duties will include teaching graduate and/or introductory level biochemistry and molecular biology courses. The appointment is for 9 months at a salary commensurate with experience. Please submit curriculum vitae, research plans (two to three pages), and three letters of recommendation. Applications will begin to be reviewed on 15 November 1990. Send material to: Dr. Wesley D. Wicks, Department of Biochemistry, University of Tennessee (UTK), Knoxville, TN 37996-0840. UTK is an Affirmative Action/Equal Opportunity/Fair Employment Practice Institution.

DEPARTMENT OF BIOCHEMISTRY

Two tenure-track positions are available for autumn 1991 in the area of physical biochemistry. We are looking for strength and originality in the determination of structure or in the study of their mechanisms of action, and characterization of reaction energetics. Individuals expert in NMR, optical methods, thermodynamics, and metallography are particularly encouraged to apply. Applicants should hold a doctoral degree and have a strong record of original research. Applicants at the level of ASSISTANT PROFESSOR, but candidates at more senior ranks will also be considered. Successful candidates will join an intellectual and diverse faculty and participate in vital campus-wide graduate programs. Send curriculum vitae, a statement of research background and interests, and three letters of recommendation to: Dana School Committee, Department of Biochemistry, University of Utah School of Medicine, Salt Lake City, UT 84132. Deadline for applications is 15 November 1990; late applications will be considered if openings are still available.

ASSISTANT PROFESSOR

DEPARTMENT OF MICROBIOLOGY
THE UNIVERSITY OF TENNESSEE
KNOXVILLE, TENNESSEE

Qualifications: Doctoral degree and at least 2 years of postdoctoral experience in molecular virology or closely allied areas of biological sciences research productivity in virology, and potential excellence in teaching. Responsibilities: Graduate and undergraduate teaching in virology. Development of a productive independent research program, and academic responsibilities normally associated with a tenure-track faculty position.

Starting date: 1 August 1991.

Applications should submit a letter of interest accompanied by a description of the applicant's research program and career objectives, and the names, addresses, and telephone numbers of three individuals who can evaluate the applicant's qualifications for the position. Applications from women and minorities are especially invited. All material should be sent to: Dr. Barry Rouxe, Chairman, Search Committee, Department of Microbiology, University of Tennessee, Knoxville, TN 37996-0845. Nominations should be made as soon as possible; evaluation of applications will begin in December 1990. The University of Tennessee is an Equal Opportunity/Affirmative Action/Fair Employment Practice Institution.

MOLECULAR GENETICIST/MOLECULAR CELL BIOLOGIST. The University of California, San Francisco, School of Medicine, Department of Ophthalmology and Program in Biological Sciences, is seeking a scientist who has a strong commitment to developing a research program in one of the areas of the retina. We are particularly interested in an individual with a Ph.D. degree in biochemistry or molecular biology. Responsibilities: Establish a research program complementing and adding to ongoing programs at the retina. Send curriculum vitae, summary of research accomplishments and future plans, and names of at least three references by 12 October 1990 to: David R. Copenhaver, Ph.D., Director, Vision Division, University of California, San Francisco, CA 94143-0780. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

ASSISTANT PROFESSOR GENETICS/EVOLUTIONARY BIOLOGY

Position in the Department of Biology to begin August 1991 to teach genetics and evolutionary biology. Ph.D. required. Commitment to undergraduate teaching and research in a liberal arts context required. Summer teaching and research goals, all transcripts, and three letters of recommendation to: Dr. Gerald L. Van Amburgh, Department of Biology, Chico State College, Chico, CA 95929. Review of applications begins 15 October 1990 and continues until position is filled. An Equal Opportunity Employer.

ASSISTANT PROFESSOR, TOXICOLOGY

ECOTOXICOLOGIST: tenure-track assistant professor to investigate xenobiotic toxicity, the specific area of research to complement interests of existing faculty. Ph.D. in ecotoxicology or a related field; postdoctoral experience preferred. The candidate will be expected to develop an externally funded research program and participate in graduate student education. The department currently operates a freshwater biological research station. Submit curriculum vitae including a complete list of graduate courses or transcripts, a statement of research interests, and three letters of recommendation by 15 November 1990 to: Dr. Douglas Wart- zok, Department of Biological Sciences, Indiana University-Purdue University, Fort Wayne, IN 46805. FAX: (219) 481-3449. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF NEBRASKA-LINCOLN

Seek candidates for 12-month, tenure-leading, 85% research and 15% teaching, assistant professor position. Research interests and externally funded research required. Ph.D. in biochemistry or closely related field, postdoctoral experience, and demonstrated potential to establish an independent research program required. Send curriculum vitae, an outline of future research plans, copies of up to three representative publications, and three letters of recommendation by 19 November 1990 to: Dr. John Markwell, Department of Biochemistry, University of Nebraska-Lincoln, Lincoln, NE 68583-0718. Telephone: 402-472-2924 or -2932. FAX: 402-472-7842. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

BIOCHEMISTRY

The Department of Chemistry at Western Michigan University (WMU) invites applications for a tenure-track assistant professor beginning 19 August 1991 pending budgetary approval. The department includes faculty with Ph.D. and postdoctoral experience. The successful candidate will be expected to develop an active, independent, externally funded research program. The department includes undergraduate and graduate students as well as contrib- uting to the teaching programs of the department. Research interests in all areas of biochemistry will be considered. Send curriculum vitae, names of three references, and a brief description of research plans by 26 October 1990 to: Dr. Michael E. McCarville, Department of Chemistry, Western Michigan University, Kalamazoo, MI 49008. WMU has a demonstrated commit- ment to Equal Employment Opportunity and the goals of Affirmative Action.

ASSISTANT PROFESSOR

PLANT MOLECULAR BIOLOGY
DUKE UNIVERSITY

The Department of Botany at Duke University invites applicants with demonstrated research productivity for a tenure-track assistant professor position in plant molecular biology. The successful candidate will be expected to develop a vigorous research program, to contribute to the training of graduate students, and to participate in undergraduate education. The department includes faculty with Ph.D. and postdoctoral experience. The successful candidate will be expected to develop an active, independent, externally funded research program. The department includes undergraduate and graduate students as well as contribute to the teaching programs of the department. Research interests in all areas of biochemistry will be considered. Send curriculum vitae, names of three references, and a brief description of research plans by 26 October 1990 to: Dr. Michael E. McCarville, Department of Chemistry, Western Michigan University, Kalamazoo, MI 49008. WMU has a demonstrated commit- ment to Equal Employment Opportunity and the goals of Affirmative Action.
TWO ASSISTANT PROFESSORS. Tenure-track positions available September 1991. Candidates with Ph.D. and a strong commitment to undergraduate teaching and research are encouraged to apply.

MOLECULAR BIOLOGIST/MICROBIOLOGIST

Teaching responsibilities include lecture/laboratory courses in microbiology and the development of an upper division recombinant DNA laboratory course. Occasional participation in the introductory biology course is expected.

HISTOLOGIST/PARASITOLOGIST

Will be responsible for coordinating and teaching in the general biology course for majors. Other duties include teaching upper division courses in histology and parasitology.

Send letter of application, curriculum vitae, a statement of teaching and research goals, selected reprints, and three letters of reference by 30 November 1990 to: Search Committee Chairman, Biology Department, Fairfield University, Fairfield, CT 06430. Women and minorities are encouraged to apply. Fairfield University is an Affirmative Action/Equal Opportunity Employer.

FOREST ENTOMOLOGIST CHEMICAL ECOLOGIST

The faculty of environmental and forest biology has a tenure-track vacancy at the ASSISTANT OR ASSOCIATE PROFESSOR level. Ph.D. required; postdoctoral experience preferred. We expect a vigorous and creative research program to be developed by the entomologist, with emphasis on chemical ecology, that significantly contributes to our doctoral program. Systematics of insects, plant or microbe interactions, behavioral ecology, and pest management are preferred areas. Teaching duties include chemical ecology, one or more courses in a specialty area, and compensated participation in a summer field program. By 7 November 1990, send curriculum vitae, statement of career goals, and three letters of reference to: Dr. Roy A. Norton, State University of New York (SUNY) College of Environmental Science and Forestry (ESF), Syracuse, NY 13210. SUNY-ESF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

EVOLUTIONARY ECOLOGIST

The Department of Biology at Washington University is seeking an evolutionary ecologist for a tenure-track faculty position at the rank of ASSISTANT PROFESSOR. Areas of interest include, but are not limited to, ecological genetics, population and community ecology, coevolution, and behavioral ecology. The individual would be expected to interact with a faculty strong in population genetics, macroevolution, systematics, and theoretical genetics using molecular tools. Postdoctoral experience is preferred.

Applicants should send curriculum vitae, statement of research interests, three letters of recommendation, and three letters of recommendation by 1 December 1990 to: Dr. Alan R. Templeton, Chair, Evolutionary Ecologist Search Committee, Department of Biology, Washington University, St. Louis, MO 63130. Washington University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology of the University of Illinois College of Medicine seeks applications from highly qualified individuals with experience in developing independent research programs and collaborative ties with ongoing research. The appointment will be for a tenure-track position with a 9-month salary. Minimal qualifications include having a Ph.D. and/or M.D. degree. A strong research track record in pharmacology is desirable. Applicants should send curriculum vitae, names and addresses of four evaluators, and three letters of recommendation by 15 December 1990. The University of Illinois is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

ASSISTANT PROFESSOR

MOLECULAR GENETICS UNIVERSITY OF ILLINOIS AT CHICAGO

The Laboratory for Molecular Biology of the Department of Biological Sciences invites applications for a tenure-track level of assistant professor available fall of 1991. The laboratory is interested in further expanding its strong molecular genetics research group. Outstanding candidates with a promising research programs utilizing molecular and/or genetic approaches to modern cellular or developmental problems will be considered for the position. Interested candidates are expected to have a Ph.D. or M.D. degree with postdoctoral experience, and to provide evidence that they can pursue an independent research program, and contribute to the department's teaching program. Please apply before 15 November 1990 by sending curriculum vitae, names and addresses of three references, and a statement of research interests. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR AND CELLULAR IMMUNOLOGISTS

The Department of Microbiology of the College of Physicians and Surgeons of Columbia University seeks highly qualified applicants to fill a tenure-track ASSISTANT PROFESSOR vacancy in a newly constructed laboratory center for molecular immunology. The general focus of this center will be on the elucidation of molecular and cellular mechanisms that influence the generation of antibody and T cell receptor repertoires. We invite applications from molecular or cellular immunologists who are qualified to establish strong, independent research programs in this field. Demonstrated expertise and interest in the molecular aspects of lymphocyte differentiation, the molecular basis of T/B cell interactions, or the molecular basis of T cell-mediated specific signal transduction mechanisms are required.

The new position will include a generous amount of start-up support, a laboratory and office space and access to a variety of state-of-the-art core facilities including transgenic mouse and sophisticated cell-sorting equipment. Interested applicants should send curriculum vitae and three letters of recommendation and a description of their research interests to: Dr. Saul J. Silverstein, Department of Microbiology, College of Physicians and Surgeons of Columbia University, 701 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGISTS UNIVERSITY OF TORONTO

The Department of Pharmacology, Faculty of Medicine, University of Toronto, invites applications for three tenure-track ASSOCIATE PROFESSORS from highly qualified individuals well qualified to establish an independent first-class research program in one of the following areas:

- Molecular biology of receptors/signal transduction
- Cellular/molecular toxicology
- Molecular biology/genetics of drug metabolism

Highly qualified individuals working in other areas of pharmacology also are invited to apply. Successful applicants will have promise in teaching as well as in research and will be expected to teach some portion of pharmacology to students in undergraduate, graduate, or professional (medical/dental) courses and to train graduate students. Qualifications should include a Ph.D. or M.D. degree and postdoctoral research experience. The starting date is July 1991 with some flexibility if necessary. Applications should include complete curriculum vitae, a letter stating research interests and the names of at least three referees. Please indicate which of the three specific positions you are seeking. Apply before 15 December 1990 to: Dr. Peter F. MacLachlan, Professor and Chair, Department of Pharmacology, Medical Sciences Building, University of Toronto, Toronto, Ontario, Canada M5S 1A8.

The University of Toronto welcomes both men and women to apply. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSOR EUKARYOTIC CELL/MOLECULAR BIOLOGY

Tenure-track appointment beginning 20 August 1991 in a new and expanding Department of Microbiology. Ph.D. and postdoctoral experience are required and preference will be given to applicants with training in the fields of immunology and/or animal virology. Applicant should be capable of conducting a research program in mammalian molecular biology or cell biology, directing graduate student research, and contributing to an interdisciplinary graduate program in molecular and cell biology. Applicants should have sufficient familiarity with flow cytometry to aid in the establishment of a flow cytometry laboratory and supervise a research associate who will be responsible for day-to-day operation of this facility. Responsibility to: Dr. Carl A. Schnaitman, Chair, Department of Microbiology, Arizona State University, Tempe, AZ 85287-2701, including curriculum vitae, names and addresses of three references, a statement of research interests, and relevant teaching experience will be considered. The closing date is 1 December 1990 and the 15th of each succeeding month until filled. Arizona State University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR, ICHTHYOLOGY OR FISHERIES SCIENCE

The Oklahoma Biological Survey has an immediate position for a Ph.D. fisheries scientist or marine ichthyologist, specializing in biochemistry, physiology, or molecular biology. Duties include a mix of undergraduate and graduate teaching, and externally funded research. Send letter of intent, curriculum vitae, availability date and three letters of recommendation and research experience to: Human Resource, Nova University, 3301 College Avenue, Fort Lauderdale, FL 33314 by 2 November 1990.
FACULTY POSITIONS IN MOLECULAR BIOLOGY
SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

Applications are invited for tenure track openings at the Assistant Professor level in the area of Molecular Biology/Genetics. These new 12-month appointments are part of the University’s commitment to strengthen and expand its program in molecular biology in the College of Agriculture, College of Science, and School of Medicine. The initial openings are in the departments listed below. In addition to establishing a strong research program, teaching at the undergraduate and graduate levels is expected. All candidates must have an earned doctorate and postdoctoral research experience. Salary, research facilities and start-up funds are very competitive. Applications will be accepted by the Department as shown below until at least Oct. 22, 1990 or until the positions are filled. Separate applications should be forwarded to each Department.

Chemistry and Biochemistry. A position is available in the general area of molecular biology. All qualified candidates will be considered but preference will be given to those whose primary area of research interest is in some aspect of the molecular genetics of the immune system, or the molecular genetics of industrially or environmentally important microorganisms. Interested applicants should send their curriculum vitae, a statement of research plans, and have at least three letters of reference sent to Dr. R. Gupta; Department of Chemistry and Biochemistry, Southern Illinois University at Carbondale, Carbondale, IL 62901.

Microbiology. A position is available for a molecular geneticist. All qualified applicants will be considered but preference will be given to those whose primary area of research interest is in some aspect of the molecular genetics of the immune system, or the molecular genetics of industrially or environmentally important microorganisms. Interested applicants should send their curriculum vitae, a statement of research plans, and have at least three letters of reference sent to Jack Parker, Chair, Department of Microbiology, Southern Illinois University at Carbondale, Carbondale, IL 62901.

Plant and Soil Science. A position is available in the general area of molecular/cell agronomy. All qualified candidates will be considered but preference will be given to individuals whose primary interest is in using techniques of molecular biology for the improvement of agronomic crops. To apply, send a letter of application, curriculum vitae, a statement of research plans, all college transcripts, and have at least three letters of reference sent to: Dr. Donald Stucky, Chairman; Department of Plant and Soil Science; Southern Illinois University at Carbondale; Carbondale, IL 62901. Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

Public Health Service National Institutes of Health National Cancer Institute

A Senior Executive Service Vacancy

Associate Director
Developmental Therapeutics Program Division of Cancer Treatment
Location: Rockville, Maryland

The Associate Director, Developmental Therapeutics Program (DTP), will be responsible for the planning, direction and implementation of a broad national and international program of drug discovery and development designed specifically to maintain a continuous flow of therapeutic agents and materials from laboratory clinics for the treatment of cancer and AIDS. The DTP is composed of three distinct segments with an annual funding level of approximately $117 million. The segments consist of a large extramural contract-based drug-development program (approximately $50 million), a grant-supported Biochemistry and Pharmacology program (approximately $60 million), and an intramural, laboratory oriented research program (approximately $7.5 million) exclusive of salaries and related fringe benefits. The DTP staff consists of approximately 275 scientific and supporting personnel.

This is a Civil Service position in the Senior Executive Service (SES) with an annual salary compensation between ES-1 through ES-4 (annually $22,199 to $79,200). In addition, physicians may be eligible for a Physician’s Comparability Allowance up to $20,000 per year. (Applicants alternatively may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The individual selected, if not presently in SES, must serve a one-year probationary period.

Applicants must meet the minimum educational requirements at least one of the following: Medical Officer, GS-602; Chemist, GS-1320; Microbiologist, GS-403; Pharmacologist, GS-405; Biologist GS-401; or Health Science Administrator, GS-601; as defined by the U.S. Office of Personnel Management Handbook X-118 (Qualification Standards for Positions under the General Schedule), which is available in Federal Personnel Offices. Applicants must also meet established mandatory professional/technical and managerial/executive requirements. Applicants will be further evaluated on the degree to which they possess additional desirable qualifications in the areas of professional/technical qualifications, managerial/executive qualifications, scientific reputation/peer recognition, training and education, and honors and awards. A copy of the requirements may be obtained by contacting Ms. Sue Hickman in the Personnel Management Branch, NCI, at (301) 496-8182.

Applications for Federal Employment (SF-171) are to be sent to the above individual at: The National Cancer Institute, Personnel Management Branch 9000 Rockville Pike Building 31, Room 3A16, Bethesda, Maryland 20892.

A current curriculum vitae and bibliography must accompany all applications for entrance into the SES. Resumes are not acceptable applications for entrance into the SES. Public Health Service Commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

Applications must be received by October 26, 1990.

Selection for this position will be based solely on merit, with no discrimination for or against any person on the basis of race, color, religion, sex, national origin, political beliefs, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

RUTGERS
The State University of New Jersey
An Affirmative Action / Equal Opportunity Employer

FACULTY POSITIONS
PROTEIN STRUCTURE AND PROTEIN ENGINEERING

The Waksman Institute and the Department of Chemistry at Rutgers, The State University of New Jersey, are recruiting outstanding individuals to join a multidisciplinary and rapidly expanding group of investigators in the area of Macromolecular Structure, Structure-Function Relationships, and Protein Engineering. Two tenure-track faculty positions are available:

MACROMOLECULAR X-RAY CRYSTALLOGRAPHY

PROTEIN ENGINEERING: CATALYTIC ANTIBODIES, ANTIBODY ENGINEERING, DE NOVO PROTEIN DESIGN

We seek individuals with demonstrated ability and commitment to conduct vigorous research programs and to teach. The new faculty members will enjoy many opportunities to interact with other x-ray crystallographers, molecular biophysicists, and biochemists on the Rutgers campus. State-of-the-art x-ray diffraction and computational facilities have been established for these disciplines. Salary and rank will be commensurate with experience, background, and professional qualifications.

Applications should include an expression of interest in the position, a current publication list, a curriculum vitae, and confidential letters of recommendation from four professional references. Applications will be accepted until the positions are filled.

Applications and nominations may be directed to:
Professor Helen M. Berman
Chairperson, Macromolecular Structure and Protein Engineering Search Committee
Department of Chemistry
Rutgers, The State University of New Jersey
New Brunswick, NJ 08903

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

An Affirmative Action / Equal Opportunity Employer
AFFIRMATIVE ACTION/SECTION 503/VEHICLE DISCRIMINATION.

ASSISTANT/ASSOCIATE PROFESSOR, DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Applications are invited for a tenure-track position at the assistant or associate professor level in biochemistry and molecular biology. The Department of Biochemistry and Molecular Biology at the University of South Florida College of Medicine seeks a new faculty member to establish a research program in molecular biology, biochemistry, and related fields. A Ph.D. in biochemistry, molecular biology, or related field is required. Strong candidates with a strong research program and demonstrated potential for excellence in research are expected. The successful candidate will be expected to develop an active research program and enter into teaching at the undergraduate level.

Candidates must have a Ph.D. in a relevant field and at least three years of postdoctoral experience. Applicants should have a strong research program and be an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST, ASSISTANT PROFESSOR

The Department of Biology, State University of New York at Fredonia, is accepting applications for a tenure-track position available January 1991. Qualifications include a Ph.D. in molecular biology and an established research program. A Ph.D. in biochemistry and postdoctoral experience is preferred. Primary teaching responsibilities include courses in molecular biology, genetics, and environmental biology. Applicants should have a strong research program and be an Affirmative Action/Equal Opportunity Employer.

ANIMAL SCIENCE, ASSISTANT OR ASSOCIATE PROFESSOR

Applications are invited for a tenure-track position in the Animal Science Department, Program in Animal Sciences, College of Agriculture and Life Sciences, Virginia Polytechnic Institute and State University. Applicants must have a Ph.D. in animal science or a closely related field and must have a strong research program. A strong research program and the potential to teach at both the undergraduate and graduate levels are required. Interested candidates should submit a curriculum vitae, list of publications, and four references. Applications must be submitted by 15 November 1990. Salary is competitive, and applicants must be an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST

The Department of Biology, State University of New York at Fredonia, is accepting applications for a tenure-track position in the Department of Biology. A Ph.D. in molecular biology and postdoctoral experience are required. Primary teaching responsibilities include courses in molecular biology, genetics, and environmental biology. Applicants should have a strong research program and be an Affirmative Action/Equal Opportunity Employer.

PLANT MOLECULAR BIOLOGY

The University of Idaho, Department of Genetics and Biochemistry, is seeking a tenure-track position in molecular biology. Applicants must have a Ph.D. in molecular biology or a closely related field and must have a strong research program. A strong research program and the potential to teach at both the undergraduate and graduate levels are required. Interested candidates should submit a curriculum vitae, list of publications, and four references. Applications must be submitted by 15 November 1990. Salary is competitive, and applicants must be an Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL GENETICIST

The Program in Genetics and Cell Biology at the University of Idaho is seeking a developmental geneticist with a strong research program. Applicants must have a Ph.D. in genetics or a closely related field and must have a strong research program. A strong research program and the potential to teach at both the undergraduate and graduate levels are required. Interested candidates should submit a curriculum vitae, list of publications, and four references. Applications must be submitted by 15 November 1990. Salary is competitive, and applicants must be an Affirmative Action/Equal Opportunity Employer.

WILDLIFE MANAGEMENT/ORNITHOLOGY

The Department of Biology, State University of New York at Fredonia, is seeking a tenure-track position in wildlife management or ornithology. Applicants must have a Ph.D. in wildlife management or ornithology or a closely related field and must have a strong research program. A strong research program and the potential to teach at both the undergraduate and graduate levels are required. Interested candidates should submit a curriculum vitae, list of publications, and four references. Applications must be submitted by 15 November 1990. Salary is competitive, and applicants must be an Affirmative Action/Equal Opportunity Employer.
PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS
WESTERN WASHINGTON UNIVERSITY

President Kenneth P. Mortimer and the faculty of Western Washington University invite nominations and applications for the position of Provost and Academic Vice President.

The position of Provost and Academic Vice President is to be filled by summer of 1991. The salary and benefits are competitive. Applicants should include a letter of interest, a curriculum vitae, and names and addresses of five references. Applications will begin about November 2, 1990 and will continue until a candidate is chosen. The University is committed to the principle of diversity. Therefore, we are interested in receiving applications from a broad spectrum of candidates, including women, members of ethnic and racial minorities, and disabled individuals.

ADVERTISEMENT
Endowed Chair in Developmental Biology
Department of Genetics and Cell Biology
University of Minnesota, St. Paul, MN

The University of Minnesota, Twin Cities Campus, invites applications and nominations of distinguished scientists for the newly endowed Ordway Chair in Developmental Biology at the rank of tenured FULL PROFESSOR. Qualifications include: an outstanding record of academic achievement, a strong record of extramural support, and a vigorous research program utilizing cell biology, molecular biology, and genetics applied to problems in eukaryotic development. Substantial startup funds will be provided. The Department of Genetics and Cell Biology, a department in the College of Biological Sciences, has responsibility for both undergraduate and graduate studies in Cell and Developmental Biology and Genetics. The successful candidate will be expected to teach and to direct a vigorous research program.

Applications should include curriculum vitae, a statement of research interests, and names of at least three references. Applications should be sent to: Ordway Chair Search Committee, Department of Genetics and Cell Biology, University of Minnesota, 250 Biological Sciences Center, St. Paul, MN 55105-1995. Applications will be accepted until November 30, 1990.

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

DEPUTY HEAD OF MEETINGS

The American Association for the Advancement of Science has an opening for a Deputy Head of Meetings.

The qualified candidate will work directly with the Head of Meetings in developing the scientific programs for the various AAAS meetings and conferences. He or she will also assist in supervising the staff operations involved in making logistical and marketing arrangements for AAAS meetings and conferences.

The incumbent will have general knowledge about recent developments in the broad spectrum of science and technology as well as Ph.D. (or equivalent) in science. The ideal candidate will have supervisory experience along with a knowledge of budget development and fiscal management.

Reply to: Debra Wright, Employment Manager
AAAS, Office of Human Resources,
1333 H Street, NW, Suite 854
Washington, DC 20005
EOE

ADVERTISEMENT
Endowed Chair in Developmental Biology
Department of Genetics and Cell Biology
University of Minnesota, St. Paul, MN

The University of Minnesota, Twin Cities Campus, invites applications and nominations of distinguished scientists for the newly endowed Ordway Chair in Developmental Biology at the rank of tenured FULL PROFESSOR. Qualifications include: an outstanding record of academic achievement, a strong record of extramural support, and a vigorous research program utilizing cell biology, molecular biology, and genetics applied to problems in eukaryotic development. Substantial startup funds will be provided. The Department of Genetics and Cell Biology, a department in the College of Biological Sciences, has responsibility for both undergraduate and graduate studies in Cell and Developmental Biology and Genetics. The successful candidate will be expected to teach and to direct a vigorous research program.

Applications should include curriculum vitae, a statement of research interests, and names of at least three references. Applications should be sent to: Ordway Chair Search Committee, Department of Genetics and Cell Biology, University of Minnesota, 250 Biological Sciences Center, St. Paul, MN 55105-1995. Applications will be accepted until November 30, 1990.

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

An opportunity has arisen at a leading pharmaceutical research centre in Paris

NEUROBIOLOGIST

To lead the biochemical laboratory of a Neuroscience division, conducting in vivo/ex vivo research; the scientific focus is on intracerebral microdialysis and the determination of the levels of monoamines and metabolites in the areas concerned. Candidates should be established research scientists who combine a high level of post-doctoral achievement (thesis/PhD) with a sound knowledge of applied research into the discovery of new drugs.

Please send a handwritten CV together with details of published works and salary requirements, quoting ref. 4125 to Média-System, 6 impasse des Deux Cousins, 75849 Paris Cedex 17.
Research Toxicologist

CIBA-GEIGY's Agricultural Division has an opening for a Research Toxicologist at its Environmental Health Center located in Farmington, CT. Responsibilities include working with a growing multidisciplinary team evaluating chemical effects on cell adhesion molecules and cell-cell interactions.

The successful candidate will have a Ph.D. in cell biology, biochemistry or immunology. One to three years relevant experience with immunofluorescence, mammalian cell tissue culture, receptor isolation and electrophoresis is desirable.

CIBA-GEIGY Corporation offers on-going growth opportunities, excellent salaries and an attractive package of paid company benefits. The Environmental Health Center is adjacent to the University of Connecticut Health Center, in one of the state's most attractive semi-rural towns. To apply, please send your resume, a brief description of your experience, and your salary requirements to: Human Resources Coordinator, CIBA-GEIGY Corporation, Agricultural Division, 400 Farmington Avenue, Farmington, CT 06032. We are an Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

Clinical & Experimental Immunology
Contribute to the next breakthrough in peptide drug discovery.

At Immunobiology Research Institute, our small team of scientists is dedicated to improving the quality of life for mankind through the research and development of peptide drugs. Here, you'll have all the advantages you would hope to find with a small company while enjoying all the benefits and security you'd expect from a Johnson & Johnson Company.

Right now, we are seeking a Research Immunologist to play a major role in the development of protocols for the evaluation of immune regulators in vitro and in animal model studies. This will include evaluating literature, contacting investigators, developing experimental plans, and communicating results and findings to upper management. You will help locate, evaluate, select, track and monitor external laboratories performing studies. 20-30% travel required to study sites.

To qualify, you must possess a Ph.D in Immunology, Virology or related field and 0-2 years post-doctoral or industry experience. Experience with animal models of autoimmunity, immune regulation in man and/or viral pathogenesis is also required.

In return for your talent, you'll be rewarded with a competitive salary, extensive benefits, and the opportunity to work alongside the brightest minds in the pharmaceutical industry. For consideration, send your resume to: Director, Human Resources, Immunobiology Research Institute, Route 22 East, P.O. Box 999, Annandale, NJ 08801-0999.

We are an equal opportunity employer.

Immunobiology Research Institute
A Johnson & Johnson Company
Leadership Beyond Compliance

CLINICAL GENETICIST/EPIDEMIOLOGIST
NATIONAL CANCER INSTITUTE

The National Cancer Institute, National Institutes of Health, is seeking applicants for Chief, Clinical Genetics Section, Clinical Epidemiology Branch, Epidemiology and Biostatistics Program. This scientist would head an intramural group which initiates research to provide new insights into the origins of human cancer. The section investigates peculiarities of cancer occurrence through the disciplines of clinical medicine and epidemiology and collaborations with cellular and molecular geneticists. Current emphasis is given to the clinical delineation of cancer family syndromes and disorders that predispose to cancer such as the neurofibromatoses and some birth defects, to gene mapping studies, and to studies of the late effects of cancer treatments including reproductive toxicity. Liaison is maintained with many clinical services throughout the Washington area and beyond, as well as with the NIH Interinstitute Medical Genetics Program which is accredited by the American Board of Medical Genetics.

Applicants should have a M.D. or Ph.D. or equivalent training in clinical genetics, epidemiology or a related field and be devoted to conducting studies related to cancer etiology. The type of appointment and salary are dependent on experience and qualifications. Starting salary ranges from $50,000-70,000. In addition to the base pay, the M.D. candidate may be eligible for a physician's comparability allowance of up to $15,000 depending on service and qualifications. Applicants should send their curriculum vitae and bibliography (or requests for further information) to:

Dr. Dilys M. Parry
Clinical Epidemiology Branch
Division of Cancer Etiology
National Cancer Institute
Executive Plaza North
Room 400
Bethesda, Maryland 20892
(301) 496-4947

U.S. Citizenship required
An Equal Opportunity Employer
Join Wyeth-Ayerst Laboratories, one of the world’s largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our Princeton, NJ research facility.

**Scientist Neuropharmacology**

Primary responsibility will be conceiving, planning, conducting and supervising experimentation directed toward the discovery of novel psychotropic agents. This will include performing and directing research directly related to the discovery of compounds acting at muscarinic and other neurotransmitters. Collaboration with our molecular biology group is key, along with providing support to other drug discovery programs.

The successful candidate will have a Ph.D. in Pharmacology, Biochemistry, Neuroscience or a related discipline with two or more years of postdoctoral experience, a good publication record and excellent communication skills. Experience with cell culture, functional assessment of cloned receptors in chosen cell lines, a pharmacological background with an emphasis on neuropharmacology are highly desirable as is the motivation to publish the findings of novel, innovative research activities.

Wyeth-Ayerst offers an excellent compensation and benefits package in our highly professional environment. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/H/V.

**RESEARCH**

HELP 80,000 PEOPLE HAVE A SECOND CHANCE.

Septic Shock is a deadly phenomenon which kills as many as 80,000 people every year. Taking away any thought of a second chance. And today, there just are no effective therapies.

At XOMA, we're trying to do something about that. We're working hard to develop new types of targeted drugs that combat the endotoxins responsible for Gram-negative sepsis and septic shock. If you are an independent thinker with a solid research background, we're looking for you.

**Scientist I**

Working in the Immunology Group, you will investigate new treatments in the field of sepsis. The ideal candidate must have a working knowledge of in vitro and in vivo immunological assays, have an M.S. with 4-8 years’ experience, or a Ph.D. with 1-3 years’ pertinent experience. Candidates with a strong background in Biochemistry, Immunology or a related field are encouraged to apply.

Experience in protein purification and characterization is desirable.

**Your chance of a lifetime.**

Here's your chance to help XOMA give others a second chance. We offer competitive salaries and benefits. Send your resume to: Technical Recruiter, XOMA Corporation, 2910 7th Street, Berkeley, CA 94710. EOE.
MEDICINAL CHEMISTRY, ASSISTANT/ASSOCIATE PROFESSOR. The College of Pharmacy invites applications for a 12-month, tenure-track faculty position beginning no later than 16 September 1991. Rank and salary are based on experience. The successful candidate will be expected to establish an independent research program capable of attracting graduate students and extramural funding. Research emphasis should include, or be related to, synthetic medicinal chemistry, natural products chemistry, bioorganic chemistry, biologically active natural products, peptidomimetics, or related areas. Appropriate background and demonstrated ability to complete a research program are required. Preference will be given to those candidates with postdoctoral or substantial experience. The successful candidate will be expected to teach undergraduate and graduate courses in medicinal chemistry, introduce students to research techniques, and contribute to the college's commitment to diversity. The position will involve 50% teaching, 40% research, and 10% administrative duties. Preference is given to candidates who have been awarded a Ph.D. degree or equivalent, and who have demonstrated potential for excellence in research and teaching. The anticipated starting date is 1 January 1992. The University is an Equal Opportunity/Affirmative Action Employer, responsive to the needs of dual-career couples.

DEVELOPMENTAL BIOLOGIST

Iowa State University (ISU) is seeking candidates to fill an ASSISTANT/ASSOCIATE PROFESSOR level faculty position in developmental biology. The position will involve 100% research. ISU is committed to the principle of ensuring that all qualified candidates are equally considered for appointment regardless of race, color, national origin, religion, sex, age, or disability. ISU is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from individuals interested in any area of developmental biology involving animals, plants, or unicellular eukaryotes. The successful candidate will have space in a new molecular biology building. Generous start-up funds are available. The department collects contract and grant funds, which are distributed among faculty to support their research activities. The successful candidate is expected to be an active, collaborative researcher. Additional responsibilities include teaching the introductory course in developmental biology and supervising graduate students. ISU is located in the Midwestern United States and is a member of the Big Eight Conference. Interested individuals should submit a letter of application, curriculum vitae, a description of current research and teaching activities, a list of publications, and the names of three references by 25 January 1992. ISU is an Equal Opportunity/Affirmative Action Employer.

BIOLICAL OCEANOGRAPHY: SCRIBBS INSTITUTION OF OCEANOGRAPHY

Applications are invited for ASSISTANT, ASSOCIATE or FULL PROFESSOR, as appropriate for a 21-month appointment period, beginning 1 June 1991. Responsibilities will include undergraduate and graduate teaching, graduate student supervision, and research leadership in areas of biological oceanography and similar fields. The position is tenure-track and tenure is available for qualified candidates. Candidates are expected to hold a Ph.D. degree in biological oceanography or a closely related field and have 2 to 5 years post-doctoral experience. The successful candidate is expected to develop an active, externally funded research program. ISU is an Equal Opportunity/Affirmative Action Employer, responsive to the needs of dual-career couples.

DIRECTOR, Virology Laboratory

The Department of Laboratory Medicine at the University of Michigan School of Medicine is seeking a director for the Virology Reference Laboratory at the West Haven Veterans Administration (VA) Medical Center. A Ph.D. degree or equivalent is required, and the individual must have experience in diagnostic virology and molecular biology. The successful candidate will provide technical and administrative support to the laboratory, which includes both virology and general virology sections, and establish an independent research program. The position is a 12-month appointment with a 1-year renewal option beginning 1 July 1991. Send letter of application to: Dean, School of Medicine, University of Michigan, Box 30716, Ann Arbor, MI 48107-1101. ISU is an Equal Opportunity/Affirmative Action Employer.
The University of Toledo

Announces An Expanded Search for

The Nippon Electric Glass Company, Ltd.
Endowed Chair in Silicate & Materials Science

The University of Toledo invites nominations and applications for a newly established, endowed faculty chair. The University is seeking an internationally recognized research scholar with a demonstrated record of major levels of external support who will bring a well-recognized program in an area broadly defined as silicate science and/or materials research. The holder of this faculty chair will be expected to interact strongly with University faculty who have related research programs in the Departments of Physics and Astronomy, Chemistry, Geology, and in the College of Engineering. In addition, this person will be encouraged to interact with industrial scientists and engineers in related fields of materials science.

The successful candidate will qualify for a tenured professorship in an appropriate academic department and will be considered for the Directorship of a new, interdisciplinary Materials Science Research Center. In addition, s/he may wish to serve as director of the Eitel Institute for Silicates and Ceramics Research. Other materials science-related organizations at UT include the Thin-Films Research Institute, the Coal Characterization Laboratory, and the Polymer Institute.

Consideration of qualified candidates will begin immediately. Interviews are expected to begin in October with the successful applicant to be identified by January 1991. Interested candidates should send a letter of application, current resume, and three letters of reference to:

Dr. Alvin D. Compaan or Dr. William A. Kneller
Co-chairs, Search Advisory Committee
Department of Physics & Astronomy
The University of Toledo
Toledo, Ohio 43606
Ph: (419) 537-2147, 2148
Facsimile: (419) 537-2723

The University of Toledo is an Affirmative Action and Equal Opportunity Employer.

Senior Research Scientist
(Research & Development)

Join the dynamic team of professionals at Baxter Healthcare Corporation, Edwards Laboratories. We are a highly successful medical product manufacturer located in Southern California, with an excellent opportunity available for a Sr. Research Scientist.

You will utilize your extensive knowledge of and experience with enzymology, cell biology and biochemistry to oversee and coordinate all cell biology research. Primary responsibilities will involve working with collagenase in developing a system for its procurement and purification, along with designing and implementing a vertical integration plan. Additionally, you will work with biochemists in developing in-vitro/in-vivo testing for collagenase as well as QA validation and sterilization procedures.

Requirements include an MS or PhD in Biochemistry, Molecular Biology, Cell Biology, Immunology or a similar field. Outstanding management and communication skills are essential, along with a willingness to travel frequently.

At Baxter, Edwards Laboratories, our employees enjoy competitive salaries and excellent benefits in a quality work environment. Please submit your resume to: E. Wattiez, Employment Department, Baxter Healthcare Corporation, Edwards CVS Division, 17221 Red Hill Avenue, Irvine, California 92714. We are an equal opportunity employer.

AN IMPORTANT PHARMACEUTICAL RESEARCH CENTER
located in PARIS area (France)

is looking for

neuroscientist

in experimental pharmacology for behavioral, memory and degenerative diseases.

Interested in discovering new therapeutic substances targeted for neurogeriatrics, the successful candidate will be in charge of conducting a complete research program, including training and supervision of several technicians.

Educational requirements include Ph.D degree as well as post-doctorate studies; top reference will be given to candidates with professional experience or, otherwise, excellent knowledge of applied neuropharmacology.

Address curriculum vitae, expected salary and hand-written cover letter to the following address:
PUBLIVAL/9038 - 27, Route des Gardes 92190 MEUDON (FRANCE).

ONCOGEN

ONCOGEN, a division of Bristol-Myers Squibb and a leader in biotechnology, performs research dedicated to pursuing novel approaches to the development of therapeutic products in the areas of immunology, infectious diseases and cancer. ONCOGEN is currently recruiting for the following position:

Scientist
Protein Purification

Responsibilities include exploration of novel protein purification and characterization technologies with application potential for production and analysis of clinical grade products, development of protocols for purification of antibodies and growth factors using techniques suitable for further scaleup, and oversight of protein purification. Requires PhD in biochemistry, chemistry or related field, and 3 to 5 years' protein purification experience. Previous application of novel purification characterization technologies desirable. Please reference position #90-054.

ONCOGEN offers a creative work environment, competitive salaries and an excellent benefit package. Qualified applicants, please submit resume to: J. McGough, ONCOGEN, 3005 First Avenue, Seattle, WA 98121. We are an equal opportunity employer.

A Bristol-Myers Squibb Company
DEAN, SCHOOL OF PUBLIC HEALTH

The University of California at Berkeley invites applications for the position of Dean of the School of Public Health.

The school is responsible for instruction and professional preparation in public health on both the Berkeley and San Francisco campuses of the university. The school, located on the Berkeley campus, is composed of two departments: biomedical and environmental health sciences, and public health sciences, which offer nearly a dozen curricular areas of specialization. Over 400 graduate students are enrolled in programs for the professional degrees, M.P.H. and Dr.P.H., and for academic degrees that lead to the M.A., M.S., and Ph.D. degrees, and joint degree programs with other departments of the university.

Among the qualifications that are sought in the person to be appointed are notable accomplishments in health sciences and a level of professional scholarship that warrants appointment to the full professorship at Berkeley, a successful experience in academic administration, evidence of a perception of the needs and directions of the field of public health in general, and of a school of public health in particular. Thus the dean will be closely involved in all developments in the school not only as it relates to a campus with no medical school (Berkeley), but also as it relates to the university’s medical school (San Francisco). Applications are encouraged from candidates interested in research and of programs to meet community and societal needs, coordination, and promotion of the school’s programs jointly administered with other educational units on the Berkeley campus are integral to a successful tenure as dean.

Nominations or applications must be received by December 1. A curriculum vitae, a list of three to five professional references, and a general statement on education for public health, and current challenges facing public health, should be sent to Dean of Public Health Search Committee, Office of the Provost, Professional Schools and Colleges, 700 University Ave., University of California at Berkeley, Berkeley, CA 94720.

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

CLINICAL MOLECULAR DIAGNOSTIC SUPERVISOR

Vivigen Laboratories is seeking an experienced clinical molecular diagnostic technologist with supervisory experience or skills.

Please send resume to:

Clark A. Reynolds
Vivigen, Inc.
2000 Washington Way
Santa Fe, NM 87505

FACULTY POSITION FOR NMR SCIENTIST

The Pittsburgh NMR Center for Biomedical Research (PNC) is a multidisciplinary facility administered jointly by the University of Pittsburgh and Carnegie Mellon University with participating faculty from both universities. The NMR Center is searching for an outstanding established or accomplished junior faculty scientist to fill a faculty position at a level commensurate with experience and accomplishments. The primary appointment will be at the University of Pittsburgh. Applicants interested in technical development in any area of NMR imaging, in vivo spectroscopy, or related computational problems are encouraged to apply. The successful candidate will be expected primarily to pursue an independent research program. A Ph.D. in physics, physical chemistry, or equivalent experience is required. In addition, a number of opportunities for collaboration are available. The center houses a 40-cm, 4.7-Tesla Bruker BioSpec II and a 31-cm, 2.4-Tesla home-built imaging spectrometer. Personnel in the center also are associated with a 7-Tesla, 15-cm Bruker BioSpec II, a Bruker AM-500 spectrometer, and a Bruker AM-300 spectrometer. Interested applicants should send curriculum vitae, representative reprints, and three letters of recommendation to:

Dr. Chien Ho
Pittsburgh NMR Center for Biomedical Research
Carnegie Mellon University
4400 Fifth Avenue
Pittsburgh, PA 15213

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The University of Washington invites applications for the position of Associate Dean of the School of Environmental Studies (IES). The director is expected to stimulate development of interdisciplinary graduate programs, research projects, and other activities in the interface of environmental science and policy. Experience in academic and professional leadership, including advisement of research and of programs to meet community needs, coordination, and promotion of the School's programs jointly administered with other educational units on the University of Washington campus are integral to a successful tenure as dean.

Nominations and applications must be received by December 15. To obtain a letter of interest, a list of three to five professional references, an essay on how the individual's scholarly accomplishments and leadership ability are relevant to the position, and a curriculum vitae, should be sent to the UWS Search Committee, Office of the Provost, Professional Schools and Colleges, 700 University Ave., University of Washington, Seattle, WA 98195, and should be received by December 15, 1990. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

APPLIED SCIENTIST/MANAGER sought, M.S., Ph.D., for water quality evaluation, environmental analysis, and hazard assessments. Develop and apply geologic, physicochemical, and biologic methods. Familiarity with computer systems used in environmental studies a plus. Salary to $30,000+.


INTERNATIONAL BOARD FOR PLANT GENETIC RESOURCES (IBPGR) announces a joint project with the International Development Research Centre (IDRC) to develop a guidebook/manual that will enable personnel involved in genetic resources documentation systems to be tailored to their needs. We are seeking a dynamic, innovative individual who is able to interact well, low periods of time, with people from varied cultural backgrounds and be able to work well for long periods of time away from his or her host country. At least an M.S. in the agricultural/biological sciences, the degree earned must represent experience in scientific experimental work. Experience in applying the personal computer in agricultural/biological sciences, use of statistical and database management systems software, and to 3 to 5 years in the documentation of biological systems is a must. Extensive experience in training and the training and the production of training material in biological sciences is preferable.

The individual will be employed as a documentation associate based in Rome, Italy, under the direction of the documentation coordinator. Salary will be commensurate with experience.

Application: Potential candidates should write to:

Director, IBPGR, c/o Food and Agriculture Organization of the United Nations, FAO, Rome 00141, Italy (FAX: 396-5750309), enclosing full curriculum vitae and a list of three references by 15 October 1990.

POSITIONS OPEN

VIVEGEN LABORATORY

Applications are invited for tenure and tenure-track faculty positions in the Department of Microbiology and Immunology at Loyola University Chicago, Stritch School of Medicine. We are seeking talented investigators whose research interests are in immunology to join a growing interactive group of investigators. Candidates are expected to develop independent, externally funded, high-quality research programs. Excellent new facilities and attractive start-up funds are available. Submit curriculum vitae, statement of research interest, and a list of three references to: Dr. Katherine L. Knight, Chairperson, Department of Microbiology and Immunology, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY, TENURE TRACK. Dickinson College, spring or fall of 1991. Ph.D. in biochemistry, or related area, with strong background in teaching and educational programs. A research program with undergraduates is expected. Dickinson is a liberal arts college with ACS accreditation, six chemistry faculty, individual research and teaching laboratories. Send résumé, undergraduate and graduate transcripts, statement of teaching philosophy, research plans, and letters of recommendation to: Professor William Schaefer, Dickinson College, P.O. Box 1773, Carlisle, PA 17013-2896. Affirmative Action/Equal Opportunity Employer.

BIOCHEMISTRY, TENURE TRACK. The University of Tennessee, Knoxville, spring or fall, 1991. Ph.D. in biochemistry, molecular biology, or related area, with strong background in teaching and educational programs. A research program with undergraduate is expected. Salary negotiable with experience. Send letter of interest and list of publications and names of three references to: Dr. Donald W. Powers, Professor and Chairman, Department of Biochemistry, The University of Tennessee, Knoxville, TN 37996. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN ANIMAL SCIENCE

The Department of Animal Science, University of California, Davis, invites applications for a faculty position in animal science at the assistant professor level. The successful candidate is expected to develop and coordinate a competitive research program in the area of animal nutrition. The successful candidate is expected to develop and coordinate a competitive research program in the area of animal nutrition. Appointments are available immediately with the rank of assistant professor.

Applications are invited with the names of three references and should be sent to: Department of Animal Science, University of California, Davis, Davis, CA 95616. An Equal Opportunity/Affirmative Action Employer.
Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our efforts in basic biomedical research. New research laboratories are currently under construction at our research headquarters in Princeton, New Jersey. More than at any time in the past, our commitment to basic biomedical research, both at the Institute and through our academic research alliances has never been stronger.

Research Associates

Molecular Biology
The focus of this position will be on cloning and expressing mammalian genes in cultured cells. Demonstrated skill in cloning, sequencing and vector construction and exposure to transformation/transfection of mammalian cells using a gene pulser are preferred. Reply to Dept. #152A.

Developmental Biology
This position is with a basic research program in developmental genetics utilizing transgenic mice, inbred and mutant mice to study protooncogene expression during development. Training in embryo culture, micromanipulation and tissue culture techniques will be provided. Training in animal science and/or experience with rodents would be an asset. Reply to Dept. #152B.

Protein Biochemist
This position will focus on the purification of recombinant proteins from cultured cells using electrophoresis, HPLC, and chromatographic methods. Reply to Dept. #152C.

Cardiovascular Pharmacology
Perform large animal in vivo studies to assess cardiovascular and electrophysiological effects of novel pharmaceutical agents. Proficiency in whole animal surgical techniques is necessary. Reply to Dept. #152D.

Tissue Culture
Two positions available in the Molecular Biology and Molecular Pharmacology Departments for individuals with experience in running tissue culture operations. Responsibilities include maintenance and cultivation of established and new cell lines, primary cell culture and cloning. Reply to Dept. #152E.

Drug Metabolism
Develop assays and determine drug/metabolite concentrations in biological samples utilizing HPLC, GLC, RIA and radioenzymatic receptor assays. Familiarity with GLP is necessary. Reply to Dept. #152F.

Cholesterol Metabolism
Evaluate synthetic compounds for their activity as cholesterol synthesis inhibitors in small animal models. Experience working with small animals and radioisotopes is necessary. Reply to Dept. #152G.

Macromolecular Crystallography
Purify and grow protein crystals for basic research. Protein purification experience is necessary. Protein crystallization experience would be an asset. Reply to Dept. #152H.

In Situ Hybridization
Establish an in situ hybridization core unit to interact with ongoing basic research on molecular characterizations of oncogenes utilizing in situ hybridization techniques, preparation of tissue sections and probes. Reply to Dept. #152J.

Candidates for these positions should possess a BS or MS in a relevant scientific discipline along with several years relevant experience.

Please forward your resume to (including dept. code#): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.
Assistant/Associate Professor
The Department of Molecular Biology, UMDNJ-School of Osteopathic Medicine, invites applications for tenure-track positions at the Assistant/Associate Professor level. Applicants must possess a Ph.D., M.D., or D.O. degree and have an active, independent research program with extramural funding. The successful candidate will be expected to develop an innovative research program and participate in the instruction of Biochemistry, Microbiology or Pharmacology to osteopathic medical students. Preference will be given to candidates whose research focuses upon mechanisms of signal-transduction, molecular immunology, or receptor regulation.

Applicants should submit a letter of interest, C.V. and three current letters of reference by November 1, 1990 to: Dr. Richard Schimmel, Acting Assistant Dean for Basic Sciences, The University of Medicine & Dentistry of New Jersey-School of Osteopathic Medicine, 401 South Central Plaza, Stratford, NJ 08084. The UMDNJ is an affirmative action/equal employment opportunity employer, M/F/H/V, and a member of the University Health System of New Jersey.

MICROTEK
RESEARCH AND DEVELOPMENT, LTD
Microtek, a leader in the development of products for the aquaculture and agriculture industries is expanding the scope of its research and development efforts into new areas. We are seeking qualified individuals for the following positions:

Project Leader/Immunology: The successful candidate will have a Ph.D. with at least 3 years of post-doctoral training and/or industrial experience. Knowledge in the areas of cellular immunology, production and purification of monoclonal antibodies and immunoenzymes (ELISA) is essential. The ability to manage a research project(s) is necessary.

Scientists: Several positions are open at the Post-doctoral, M.Sc. and B.Sc. levels. Candidates should have appropriate degrees in immunology, molecular biology or biochemistry and have a solid record of academic achievement. The successful candidates will participate in research projects such as the development of immunodiagnostics, therapeutic delivery systems and vaccines.

Microtek offers competitive salaries, a comprehensive benefits package, and a stimulating work environment. Microtek is located on Vancouver Island near Victoria, one of the most desireable locations in Canada.

Please send C.V., including a list of references, in confidence to:

Dept. of Human Resources
Microtek R&D, Ltd
P.O. Box 2460
Sidney, B.C. V8L 3Y3

For a healthier environment, we are the solution.

Environmental concerns call for a wide range of highly sophisticated capabilities. At International Technology Corporation, we’re applying proven technologies to the environmental problems of today and tomorrow. In fact, we are an industry leader, providing comprehensive environmental and analytical services to government and private industry.

From the first stages of analysis to final implementation, we do it all, which is why International Technology Corporation is the choice for opportunity-seeking professionals. We have an opportunity available in Pittsburgh, Pennsylvania.

MANAGER RISK ASSESSMENT — will manage group of risk assessment professionals. Requires PhD in technical/science discipline and must have 5+ years experience in writing environmental risk assessments.

For immediate consideration, please send resume and salary requirements to: Ray Janko, Manager, Professional Staffing, Dept. MD/SM, International Technology Corporation, 2750 Mississauga Blvd., Monroeville, PA 15146. An Equal Opportunity Employer M/F/H/V.

RESEARCH SCIENTISTS
PANLABS is expanding its U.S. laboratory facilities. We have opportunities for scientists with a demonstrated record of scientific innovation and independence. Positions available:

Ph.D. - Molecular Genetics
Responsibilities include cloning and characterization of gene clusters for the biosynthesis of secondary metabolites, and the genetic manipulation of industrial microbes for improved production or development of novel bioprocesses. Position requires experience in molecular genetics of actinomycetes, experience with other systems desirable.

Ph.D. - Chemist
Responsibilities include the characterization of natural products and biosynthetic intermediates. Candidates must have demonstrated experience in isolation and structure elucidation of secondary metabolites and determination of biosynthetic pathways. Candidates must have several years of experience, industrial experience desirable. Broad experience in analytical and synthetic chemistry is desirable.

Candidates should have good supervisory and communication skills, publication record, and a strong desire to work with a team.

PANLABS is a growing U.S. based international company that has provided R&D services to pharmaceutical companies and the fermentation industry worldwide for 20 years. Located in the high tech corridor north of Seattle, PANLABS offers competitive salaries and benefits. Submit CV with names and phone numbers of 3 references to:

PANLABS, INC.
Attn: Human Resources Manager
11804 North Creek Parkway South
Bothell, Washington 98011

We'll Help You Build
A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036
MACROMOLECULAR NMR SPECTROSCOPIST

Lilly Research Laboratories, a division of Eli Lilly and Company, has an opening for an Associate Scientist who will collaborate with established groups from several disciplines to study the structure of proteins and their interactions with other biologically active molecules.

Candidates for the position should have a master’s degree or a bachelor’s degree with equivalent experience. Specific training in multidimensional NMR techniques is required. A strong background in biological and computer sciences is desirable.

The Lilly NMR laboratory is exceptionally well-equipped for macromolecular studies and includes a Unity 500 spectrometer, a Silicon Graphics workstation, and the necessary software for advanced NMR processing and molecular calculations. Also available is access to a recently installed Cray 2S supercomputer. These facilities are housed in a recently completed suite of laboratories, which also include X-ray crystallography, vibrational spectroscopy, and computational chemistry.

Qualified candidates should send a curriculum vitae to Kristin Roehr, Scientific Recruitment Representative, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285.

Equal Opportunity Employer

Commitment to Excellence

ENVIRONMENTAL TOXICOLOGIST

The Dow Chemical Company, a recognized leader in Industrial Toxicology, has an exciting opportunity for an Environmental Toxicologist. This person will assume responsibility for the bioconcentration/metabolism area in our Environmental Toxicology and Chemistry Research Laboratory located in Midland, MI.

We are seeking an individual with doctoral level training who has demonstrated expertise in toxicokinetics of xenobiotics in aquatic animals. Strong communication skills, both written and oral, as well as excellent interpersonal skills are required to interact effectively in a team/work environment.

The Dow Chemical Company provides a stimulating and challenging scientific environment which allows for both scientific and professional growth. In addition, we offer a competitive salary and benefits package. Please send your resume to: Technical Recruiting, Department ET-1, The Dow Chemical Company, 1801 Building, Midland, MI 48674. An Equal Opportunity Employer M/F/H/V.

THE ROYAL SOCIETY

NAPIER RESEARCH PROFESSORSHIP

The Royal Society invites applications for the Napier Research Professorship, tenable from 1 October 1991, for research into the causes of cancer including any corresponding or allied disease and the means of its prevention, cure and alleviation. The salary will be on the prevailing UCf professorial minimum plus 40% and include superannuation. The Napier Research Professor may bid for annual research expenses of £13 500 or higher and for support for a research or technical assistant, and there will be a start-up grant of up to £35 000. A successful applicant from overseas will receive assistance with removal expenses.

The appointment must be held in an appropriate higher educational or research institution in the UK. There is no restriction as to citizenship of candidates. The tenure is for five years in the first instance and is then renewable until retirement.

Application details are available from Mrs U.M.A. Tokle, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (Fax 071-930 2170). The closing date for applications is 16 November 1990; no applications arriving after 4 p.m. on that date will be considered.

FACULTY POSITION

Microbial Geneticist

Applications are invited for a tenure-track faculty position at the Waksman Institute with a joint appointment in the Department of Molecular Biology and Biochemistry. The research-oriented environment at the Piscataway campus includes research institutes and academic science departments of Rutgers University, the Robert Wood Johnson Medical School, and the Center for Advanced Biotechnology and Medicine. The Waksman Institute is expanding in the research areas of molecular developmental genetics, plant molecular biology, regulation of gene expression and structural molecular biology. Preference will be given to candidates with complementary research interests and who use bacteria, yeast or filamentous fungi. The successful applicant will be expected to conduct a vigorous independent research program and to participate in instructional activities. Recently renovated laboratory space and generous start-up funds are available.

Candidates should send a biographical sketch (with a list of publications and a description of research interests) and request that three letters of reference be sent to: Dr. Joachim Messing, Director, The Waksman Institute, Rutgers, The State University of New Jersey, P.O. Box 759, Piscataway, NJ 08855-9759.

The State University of New Jersey
Rutgers
An Affirmative Action/Equal Opportunity Employer
AFFIRMATIVE ACTION/Equal Opportunity

The Department of Biological Science invites applications for a tenure-track position as ASSISTANT OR ASSOCIATE PROFESSOR beginning August 1991. Applicants must have a Ph.D. with a commitment to teaching and maintaining an active research program. Teaching responsibilities may include principles of botany, plant physiology, and upper division and master's level courses in the applicant's area of expertise.

The successful candidate will complement existing programs in terrestrial and aquatic botany. The opportunities include participation in equipping new teaching and research facilities to be available by the fall of 1992. A large greenhouse complex and a 26-acre on-campus arboretum are available for research and teaching; marine, freshwater, desert, chaparral, and conifer communities are within easy driving distance of the campus. The campus is located in close proximity to other major universities that offer a wide variety of facilities, including the Aquatic Field Station.

Applicants should have a Ph.D. with a commitment to developing and maintaining an active research program. Teaching responsibilities may include principles of botany, plant physiology, and upper division and master's level courses in the applicant's area of expertise. The successful candidate will complement existing programs in terrestrial and aquatic botany. The opportunities include participation in equipping new teaching and research facilities to be available by the fall of 1992. A large greenhouse complex and a 26-acre on-campus arboretum are available for research and teaching; marine, freshwater, desert, chaparral, and conifer communities are within easy driving distance of the campus. The campus is located in close proximity to other major universities that offer a wide variety of facilities, including the Aquatic Field Station.

Applicants should have a Ph.D. with a commitment to developing and maintaining an active research program. Teaching responsibilities may include principles of botany, plant physiology, and upper division and master's level courses in the applicant's area of expertise. The successful candidate will complement existing programs in terrestrial and aquatic botany. The opportunities include participation in equipping new teaching and research facilities to be available by the fall of 1992. A large greenhouse complex and a 26-acre on-campus arboretum are available for research and teaching; marine, freshwater, desert, chaparral, and conifer communities are within easy driving distance of the campus. The campus is located in close proximity to other major universities that offer a wide variety of facilities, including the Aquatic Field Station.

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A very important organisation in drug research has a new opportunity in its research centre in the Paris area:

**BEHAVIOURAL RESEARCH SCIENTIST**

The post will involve initiating and conducting experiments and writing associated reports: you will be responsible for a small group of technicians.

You will be joining a multi-disciplinary team within the neurobiology division. PhD-level qualifications are called for and some post-doctoral industrial experience is desirable; a knowledge of "operant conditioning techniques" would also be an advantage.

Please send a handwritten letter, CV together with a list of published works noting content of particular relevance, under ref. 4117 to Media-System, 6 impasse des Deux Cousins, 75849 Paris Cedex 17.

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**EXPERIMENTAL PATHOLOGIST**

Position available in biomedical research laboratory for individual with doctoral (PhD, DVM/PhD or MD/PhD) in experimental pathology plus two years of experience in field to plan and conduct basic and applied research, both independent and collaborative, that will contribute to an understanding of the health consequences of airborne materials. Experimental pathologist will formulate research approaches and prepare research protocols; report results of research in the form of open literature publications and presentations at scientific meetings; train and supervise laboratory technicians in the preparation of tissue cultures from necropsies and animal surgeries; study animal tissue to provide data leading to an improved understanding of the mechanisms of respiratory tract carcinogenesis from inhaled materials; examine tissue under electron microscope and in flow cytometer to study normal biology of respiratory tract and its response to cancer-causing materials; and devise and direct the use of special stains and methods for isolating, identifying and studying function, morphology and pathology of obscure or difficult-to-identify cells, tissues and connecting fibers. Pathologist may conduct necropsies to select tissue specimens for study.

Position requires training and/or experience in ultrastructural studies of neoplasia with an emphasis on respiratory tract, demonstrated expertise in cellular alterations in the respiratory tract from inhaled mineral fibers and particles and other carcinogens; expertise in special techniques such as scanning and transmission electron microscopy, histochemistry and tissue culture; and ability to develop and adapt multiparameter flow cytometric techniques for study normal respiratory tract cell biology and effects of inhaled toxicants. Demonstrated ability to function as an independent researcher as evidenced by publications in the open literature is also required.

This is a full time 7:30AM to 4:00PM position (40 hours per week) with excellent fringe benefits and competitive salary ($54,900 per annum).

Equal Opportunity/Affirmative Action Employer. Applicants should submit resumes to New Mexico Department of Labor, 501 Mountain Road, N.E., Albuquerque, NM 87103, Job #334075.

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**HEALTH SCIENTIST ADMINISTRATION TRAINING**

at the National Institutes of Health through the Grants Associates Program

Scientists in biomedical or behavioral research interested in an administrative career with federal programs supporting research and training in health related fields may wish to consider the Grants Associates Program in the U.S. Public Health Service. This program is governed by the Grants Associates Board and is administered by the Office of Extramural Programs in the Office of the Director, National Institutes of Health.

The Program offers a limited number of full-time permanent positions per year on a highly selective basis, that prepare each associate for a leading role in health science administration. For a twelve-month period, Grants Associates participate in individually structured training experiences including on-the-job assignments, courses and seminars. The Program provides opportunities for participation in the development and administration of federally supported research programs, in the fundamentals of effective management, in the peer review process and in other related areas of health science administration. The Program also attempts to develop a sensitivity to the consequences of program decisions on other federal health programs, research institutions, and national health needs.

Admission to the Program is highly competitive for the five positions available. Motivation for a career in science administration, good interpersonal skills, and evidence of executive potential are important. If you are a U.S. citizen and hold a doctorate or equivalent in a discipline related to the biomedical or behavioral sciences, have significant independent research experience beyond the doctorate and are attracted to health science administration as a profession, you should inquire about the Grants Associates Program.

Grants Associates may be appointed either in the U.S. Civil Service with a salary range of $35,825 to $50,342 (General Schedule levels 12-14) depending on experience or in the Commissioned Corps of the U.S. Public Health Service at ranks beginning with senior grade (03 Lieutenant), salary dependent on prior military experience, but beginning at $21,968.80 basic pay only.

The National Institutes of Health does not discriminate in employment on grounds of race, color, sex, national origin, age, handicap or religion.

For further information, write to:

**Director, Health Scientist Administrator**

**Development Programs (S)**

Office of Extramural Programs

Office of the Director

National Institutes of Health

Building 31, Room 5B-35

9000 Rockville Pike

Bethesda, Maryland 20892
FACULTY POSITIONS
ASSISTANT/ASSOCIATE/FULL PROFESSOR
DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF ILLINOIS

Applications and nominations are invited for tenure-track faculty positions for September 1991. We are seeking candidates who are using contemporary approaches to investigate problems in the general area of growth factor-signal transduction regulation of cell growth control and differentiation. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. At this time, applicants must have a strong record of research accomplishment. The Department of Biochemistry consists of 20 full-time faculty and has hired several new faculty in the areas of gene expression and membrane biology in recent years. The department and college are well equipped and have research support facilities in the areas of molecular and cell biology, molecular genetics, and protein synthesis and sequencing. Applications should include curriculum vitae, a summary of current and future research plans, and three letters of recommendation. Application deadline is 31 December 1990. Send applications or nominations to: Professor, Department of Biochemistry, University of Illinois at Chicago, 1853 West Polk Street, Chicago, IL 60612.

FACULTY POSITIONS, tenure track, Department of Biology. The objective is to develop research programs in the general areas of cell biology, developmental biology, population genetics, or functional morphology. Teaching duties: general botany. ANIMAL PHYSIOLOGY: Work in course in invertebrate or vertebrate physiology and anatomy. ANIMAL PHYSIOLOGICAL ECOLOGY: Search extended. Marine or terrestrial interests. (Molecular biology ecologist.) MOLECULAR GENETICS: Background required. Teaching: undergraduate genetics. All candidates will be expected to participate in the graduate program (M.S. and Ph.D.) and develop an active research program. Ph.D. required. Working knowledge of Spanish is advised. Applications should include curriculum vitae, statement of research and teaching interests, reprints, and three letters of reference, sent before 15 October 1990 (systematist, physiologist, physiological ecologist) or 5 November 1990 (botanist, molecular geneticist) to: Dr. Ned Fetcher, Department of Biology, University of Puerto Rico, Rio Piedras, PR 00981.

GENETICIST
Tenure-track position available beginning August 1991 for a geneticist. Faculty rank negotiable. Ph.D. required. Preference will be given to applicants with a specialization in genetics required. Candidates must demonstrate a commitment to teaching undergraduate students, a desire to involve undergraduates in scholarly activity, and a willingness to teach courses to nonmajors. Minority men and women are especially encouraged to apply. Duties include teaching an undergraduate genetics course for majors and establishing an independent research program. Salary and fringe benefits are excellent. Send letter of application, long-term goals, curriculum vitae, transcripts, and three (3) letters of reference to: Chair, Search Committee Department of Biology Slippery Rock University Slippery Rock, PA 16057

To ensure consideration, application materials should be received by 1 May 1991. Slippery Rock University is an Affirmative Action/Equal Opportunity Employer.

DOCTORATES, any field considered. Mature attitude, excellent teaching ability, congenial personality, and proficiency in English required. New, well-equipped, large, active, and varied undergraduate laboratory instruction of surgeons. Permanent instruction sites in Fort Worth, Los Angeles (Anahiem), or Seattle required. Not a solid state program. Beginning salary: $40,000. Write for application information to: Director, Midas Rex Institute, 3292 Race Street, Fort Worth, TX 76111. New applicants only, please.

HUMAN CHEMORECEPTION. The John B. Pierce Laboratory, devoted to research and education in health and the environment and affiliated with Yale University, seeks an ASSISTANT FELLOW (analogous to assistant professor) in the human sense of smell and sensory irritation to join an ongoing research program. Applicants should have a doctoral degree in neurology, pharmacology, or pharmacology/toxicology and a strong background in basic neurobiology. Experience in sensory biology/toxicology and behavioral pharmacology is particularly desirable. Applicants should send curriculum vitae, a statement of research goals, current publications, and three references to: Dr. Jane A. Duggan, Department of Psychiatry, Yale University School of Medicine, New Haven, CT 06519. Reference Group is an Equal Opportunity/Affirmative Action Employer.

MASS SPECTROMETRIST (MS) Immediately opening in neurochemistry group for an experienced mass spectrometrist, to become part of an active research team and be in charge of MS core laboratory facility. Research projects include retinal degenerations in development and other areas involving visual transduction. Experience is required. Send curriculum vitae and names and addresses of three references to: Dr. John Herrmann, Department of Pharmacology and Experimental Therapeutics, Boston University (LSU) Eye Center and Neuroscience Center, 2020 Gravier Street, Suite B, New Orleans, LA 70112. AUMC is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR Virologist. The Department of Virology and Immunology at the Southwest Foundation for Biomedical Research, invites applications for an ASSISTANT OR ASSOCIATE SCIENTIST, faculty level position. Candidates should have a Ph.D., M.D., or D.V.M. with experience in DNA recombinant technologies associated with DNA or RNA viruses and will be expected to maintain an independent competitive research program. We are seeking individuals who will complement the existing AIDS projects focusing on both HIV and non-AIDS models. Opportunities exist for collaborators with five other scientists involved in AIDS research. These areas focus on viral pathogenesis, immunology, vaccines, and therapeutics. Other areas of focus include research on hepatitis viruses, herpes B virus, and their associated nonhuman primate models. The Southwest Foundation for Biomedical Research is a nonprofit, private research institution that supports 45 scientists. Other departments located at this facility include genetics, organ physiology, chemistry, physiology and medicine, and laboratory animal medicine. The foundation has extensive nonhuman primate resources which include baboons, chimpanzees, and macaques. Candidates should send curriculum vitae, brief summary of research goals, and the names and addresses of three references to: Personnel Director (049), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147. An Equal Opportunity Employer, M/F.

PEDIATRICS AND HUMAN GENETICS
UNIVERSITY OF MICHIGAN

The Department of Human Genetics and Pediatrics are seeking a FACULTY MEMBER with interests in human and animal genetics. The position will be a tenured, independent research position and Board-certified or -eligible in medical genetics. Send curriculum vitae, statement of research interests, and three letters of reference to: Jerome L. Gorski, M.D., Department of Pediatrics and Human Genetics, University of Michigan Medical School, 5707 MSRB II, Box 0688, Ann Arbor, MI 48109-0688.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PUBLIC RELATIONS/ MARKETING WRITER
Client has immediate opening for in-house writer to assist in developing information and materials for use in marketing inventions. It would be desirable for the person selected to have a degree in the natural sciences, as would experience with developing materials that can convert complex ideas into simple messages. The position would involve coordinating marketing efforts and preparing marketing pieces which require understanding of specific technologies targeted to business, educational, and consumer markets.

Candidate must be willing to relocate to Tucson. Send résumé, salary requirements, and five examples of your work to: The Peter Herrmann Company, Inc., 7522 East McDonald Drive Scottsdale, AZ 85250

A POSTDOCTORAL POSITION is immediately available to study the molecular biology of protooncogene regulation of mammalian genes. Experience in molecular biology and/or biochemistry is required. Salary commensurate with qualifications. Send curriculum vitae and names of three references to: Dr. Gregory Hick, Department of Biochemistry, State University of New York (SUNY) Health Science Center at Brooklyn, 450 Clarkson Avenue, Box 6, Brooklyn, NY 11203. An Equal Opportunity/Affirmative Action Employer. DMC#CR0316.

A POSTDOCTORAL POSITION. Available to study regulation of gene expression in retinal glial cells [see Mol. Cell. Biol. 9, 4558; DNA 8, 437 (1989)]. Ongoing studies involve characterization of transcription factors and expression of growth factors in glial cells. Experience in recombinant DNA and protein purification techniques is essential. Please send curriculum vitae and names of three references to: Vijay Sarthy, Ph.D., Department of Ophthalmology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. An Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION. An NIH training grant position is available immediately for training in all aspects of in vivo metabotic NMR. The training grant is only available for U.S. citizens or permanent residents. Persons interested in application should send description of research background and current research interests to: Dr. John S. Leigh, The University of Michigan, Department of Biochemistry, D031 Richards Business Building, PA 19104. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

YOUR PERSONNEL PLACEMENT AD
in our classified columns can be boxed for higher visibility. Call SCIENCE at 202-326-6555 for details.
**Applications for protein DINGE**

The Bo and Vera Axson Johnson's Visiting Scientist Fellowship at the Karolinska Institutet for Research in Molecular Nutrition is available at the Department of Medical Nutrition, Karolinska Institutet, located in the new and rapidly expanding NOVUM Research Park at Huddinge University Hospital in Stockholm, Sweden.

The Department of Medical Nutrition is a university department within the Karolinska Institute School of Medicine, forming a unit in the NOVUM Research Park with a staff of ca 100 persons (scientists, students, technical and administrative staff). The main research areas include: steroid hormone receptors (structure, regulation), dioxin receptor, chemical hepatocarcinogenesis, molecular mechanisms of growth hormone, cytochrome P-450 and environmental factors of importance in the etiology of colon cancer.

The Department has a close collaboration with two other units within the NOVUM Research Park, i.e. The Center for Biotechnology, which has been in operation for five years and during this time has shown a dynamic development into a competitive, scientifically attractive and well equipped unit within the sphere of molecular biology, and the Center for Nutrition and Toxicology, which was recently founded and now has a well defined scientific profile within the spheres of nutrition and toxicology.

The Bo and Vera Axson Johnson's Visiting Scientist Fellowship is initially for one year with possibilities for extension up to three years. Preference is given to applicants with experience in molecular biology and/or protein purification. Adequate laboratory resources will be provided.

Applications should be sent to Prof. Jan-Ake Gustafsson, Dept. of Medical Nutrition, Huddinge University Hospital, NOVUM, S-141 86 HUDNINGE, Sweden, together with CV, relevant publications and names of two referees.

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**CANCER CENTER SCIENTIST**

The Hipple Cancer Research Center invites applications for two Cancer Center Scientists in the areas of carcinogenesis, blood cell growth factors and cytokines. We are committed to recruiting and supporting independent investigators with substantial postdoctoral training who have demonstrated progressively responsible experience in the scientific prosecution of basic research in applying molecular biological techniques to the investigation of the nature of cancer and its intervention.

Successful candidates are expected to develop an independent, competitively funded, creative research program; to supervise associate scientists, direct graduate and postdoctoral students; and to interact on a variety of academic and community levels. Participation in relevant program projects (P0-1) is essential.

Significant research accomplishment documented by peer-reviewed publications and a demonstrated ability to obtain and productively deploy funding are essential. Excellent opportunities exist for research collaboration, and we offer competitive salaries and excellent benefit packages. Start-up funding is available.

An innovative research leader in the exploration of the molecular and genetic nature of cancer, the Hipple Cancer Research Center is a member of the Association of American Cancer Institutes. Affiliated with area hospitals and universities, the Hipple Cancer Research Center has four well-funded research divisions supported by NCI peer-reviewed grants and contracts.

Candidates should submit their curriculum vitae, recent relevant reprints, description of current and planned research goals, history of prior and current funding, and at least three references to:

**Chairman, Search Committee**

*Hipple Cancer Research Center*

4100 South Kettering Boulevard

Dayton, Ohio 45439-2092

An Equal Opportunity, Affirmative Action Employer, the Hipple Cancer Research Center offers a smoke-free environment.

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**Alexander Hollaender**

**DISTINGUISHED**

**Postdoctoral Fellowship Program**

Research Opportunities in Energy-Related Life, Biomedical, and Environmental Sciences

- Research in OHER-sponsored programs
- Tenable at various national laboratories
- Stipends $35,000
- Doctoral degree received after April 1, 1989
- U.S. citizens or PRA eligible

Information and applications:

**Hollaender Postdoctoral Fellowships**

**Science/Engineering Education**

Oak Ridge Associated Universities

P.O. Box 117

Oak Ridge, TN 37831-0117

(615) 576-4805

**Deadline January 15, 1991**

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**The Humane Society of the United States announces**

**THE RUSSELL AND Burch AWARD**

Beginning next year, The Humane Society of the United States (HSUS) will give an annual award to a researcher who makes an outstanding contribution toward the advancement of alternative methods in the area of animal research or testing. Alternatives are considered in the broad sense of the 3Rs — replacement (replacing in vivo vertebrate methods with other techniques), reduction (reducing the number of animal subjects, where feasible), and refinement (altering procedures so that animal subjects experience less pain or suffering).

The award is named in honor of scientists W. M. Russell and R. L. Burch, who first articulated the 3Rs approach. The award carries no monetary prize but will be a means of recognizing the important role that scientists themselves can play in reducing the research community's reliance and impact on animal subjects.

The HSUS is seeking nominations of suitable candidates. Self-nominations are encouraged. The ideal candidate is a researcher who: (1) has made an outstanding contribution toward developing or validating alternative methods in biomedical research or testing, (2) was motivated — at least in part — by humaneness and (3) whose animal research, past and present, is above reproach on humane grounds. A scientific advisory board will aid The HSUS in selecting the winning candidate.

**Send recommendations by October 31st**, to Martin Stephens, Ph.D., Director/Laboratory Animals, The HSUS, 2100 L Street, NW, Washington, DC 20037. Supporting documents such as relevant publications would facilitate evaluation.
Sr. Biologist/Staff Scientist
San Francisco/Bay Area

We're Alza, a manufacturer of innovative drug delivery systems with a long-standing tradition of scientific and manufacturing excellence. We currently have an opening for an experienced and innovative Senior Biologist/Staff Scientist at our Palo Alto headquarters.

You will assist in developing, initiating and monitoring a toxicology program and report progress to the project team. Other responsibilities include helping prepare product registration documents, monitoring overall toxicology department compliance and maintaining pertinent records and files. You will also oversee animal facility operations, maintenance and documentation as well as supervise all phases of toxicology studies.

Requires an MS, PhD or equivalent in Pharmacology or related biological sciences and 3-5 years' experience. You must also possess strong communication skills, an innovative outlook and the ability to work well on a team.

For consideration, please call Darlene Markovich at (415) 494-5214; or fax your cv/resume to (415) 494-5151; or send it to: Alza, Employment Department, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0802. EOE.

Repligen Corporation is a leader in the application of biotechnology to the healthcare market. We are currently developing an AIDS vaccine, AIDS therapeutic and diagnostic products, cancer therapies, and novel bioprocess reagents. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our effort has created the following opportunity:

Molecular Biology Principal Investigator

We have an opening for a senior member of our Molecular Biology staff to direct projects in retroviral vaccines and immunotherapies, and in the development of novel anti-cancer agents and biologicals. This scientist must have an exceptional record of scientific achievement including demonstrated project management and supervisory skills. The successful candidate will have 2-3 years' postdoctoral training plus at least 4 years' additional experience with skills not only in Molecular Biology (gene cloning, expression, synthesis and mutagenesis), but also a working knowledge of protein biochemistry, purification and cell biology. Experience investigating questions of protein structure-function relationships would be useful.

Repligen Corporation offers a competitive salary, excellent benefits, relocation, and equity participation. Please submit a cover letter, resume, and references to: B. Fleming, Repligen Corporation, One Kendall Square, #122, PO Box 9171, Cambridge, MA 02139. An Equal Opportunity Employer.

CELL BIOLOGIST

Glycomed is a young, rapidly growing pharmaceutical company in the San Francisco Bay Area. We are seeking a Scientist to help us uncover and develop novel drug compounds.

In this position, you will design and perform experiments investigating the interaction of a variety of cells with vascular endothelium. Candidates must have expertise in endothelial cell biology and experience in isolation and culture of vascular endothelium. PhD and at least 1 year of postdoctoral experience is also required. Experience with cell adhesion assays, carbohydrates and antibody binding would be helpful.

Glycomed offers a competitive compensation and benefits package. To apply, send letter and CV to: Glycomed, Inc., 860 Atlantic Ave., Alameda, CA 94501. EOE.

RECOMBINANT PROTEIN IN VIVO BIOLOGIST

Amgen, a leader in the development of hematopoietic and tissue repair growth factors for therapeutic use, has an immediate opening for an individual to conduct toxicological research studies of our recombinant proteins.

Candidates should have experience in working with protein therapeutics in in vivo models, and the desire to experimentally develop innovative models related to the target specificities of different growth factors and cytokines. Previous experience in hematopoiesis, tissue repair, angiogenesis, or transgenic mouse models would be helpful. Candidates should have a Ph.D., DVM or equivalent and relevant training in toxicology, pharmacology, physiology, pathology, developmental biology, or a related discipline.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology. Our need for these positions reflects an ever increasing commitment to the development of significant products for human health care through excellence in research. If you have the necessary skills and would like to be a part of an organization that places a high priority on its human resources, please send a complete CV, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #558
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer.
Manager, Fermentation and Specialty Biologicals

The Merck Pharmaceutical Manufacturing Division, an industry leader in biological product development and production, has an exceptional opportunity for an experienced expert in fermentation biotechnology and downstream processing.

As Manager, Fermentation and Specialty Biologicals, the successful candidate will be responsible for advanced technology implementation and full-scale production of vaccines and protein products. Processes include fermentation and recombinant technology, covering a broad product line distributed worldwide.

The Manager’s position is at a senior level, reporting to the Director, Biological Manufacturing. Budgetary responsibility is in excess of $13 million, and the manager is directly responsible for a staff of approximately 25 exempt and 75 non-exempt technically trained employees.

A PhD in Biochemistry, Microbiology, or Virology is required, with a minimum of five (5) years’ experience in fermentation and/or recombinant pharmaceutical production. At least 3 of the 5 years’ experience must include: direct supervision of exempt and non-exempt technical personnel, responsibility for planning & controlling salary and operations’ budgets, and responsibility for quality control conformance.

Merck Pharmaceutical Manufacturing Division’s commitment to excellence means we recognize and reward outstanding performance. We offer a very competitive starting salary, a full range of benefits, and an opportunity to advance with one of the world’s most highly respected corporations. Please send your resume with salary history/requirements to: K.J. Hallee, Merck Pharmaceutical Manufacturing Division, West Point, PA 19486.

Equal Opportunity Employer M/F/H/V.

Merck & Co., Inc.

HYBRITech Incorporated, a division of Fortune 100 Eli Lilly & Company, is a recognized leader in the application of monoclonal antibody technology to human health care needs. We manufacture diagnostic assays and we are also involved with the development of in vivo imaging products. We currently have the following needs:

DIRECTOR/DIAGNOSTIC PRODUCT DEVELOPMENT

We seek a Director to lead the product development efforts of our diagnostic R&D team. Our ideal candidate will have related immunoassay product development experience, specifically in cancer related products, and will be familiar with diseases of the central nervous system and cardiovascular system. This position requires a Ph.D. in Biochemistry or a related scientific discipline and successful experience working with other functional areas within an organization to bring projects to completion.

RESEARCH SCIENTISTS

Several excellent research opportunities are available for innovative scientists to join our immunodiagnostic product development team. We currently have needs for Ph.D Research Specialists who have knowledge/experience in the following areas:

- Cancer
- Molecular Biology
- Neurological Disease
- Cardiovascular Disease
- Assay Development

POSTDOCTORAL SCIENTISTS

We have two opportunities available for postdoctoral assignments:

THERAPEUTICS R&D: Project will include research on systems to clone immunoglobulin genes in bacterial systems. Will also modify immunoglobulin genes using site specific mutagenesis and screen for the production of altered proteins in a bacterial expression system. Knowledge of western blot technique/immunogenetics/molecular biology and expression of mammalian proteins in bacterial systems is desirable. Ideal candidate will have experience with bacterial expression, phage cloning, PCR technology, DNA sequencing and mutagenesis.

MEDICINAL CHEMISTRY: Project will be to perform experiments to elucidate the pharmacokinetic properties of a novel drug delivery system to include interpretation of the results in terms of classic pharmacokinetic models and in terms of a novel tumor physiology i.e.odel. We seek familiarity with pharmacokinetic behavior of macromolecules and small molecules. Experience in quantitative extraction/analysis of drugs from animal tissue is desirable.

Hybritech offers competitive salaries/benefits and a stimulating research environment. For consideration please send your resume to:

HYBRITech Incorporated
11095 Torreyana Road, Dept. HAUGH,
San Diego, CA 92121-1104

EOE
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION. Available immediately to study the molecular basis for transgenic cereal recycling in maize endosperm cells. Prefer individual with experience in lipid biochemistry and/or molecular biology techniques. Send curriculum vitae and three names or letters of reference to: Dr. Kenneth A. Coleman, P.O. Box 3028, Duke University Medical Center, Durham, NC 27710.

POSTDOCTORAL POSITION. Available for Ph.D. with postdoctoral experience in behavioral neuroscience. Individual should have experience working with rodent models of stress using behavioral, anatomical, and neurochemical methods. Active programs include: (i) regulation of behavior by neuronal chemoreceptors and substrates of defensive responses, and models of anxiety and depression. Send curriculum vitae and names of references to: National Eye Institute, Building 5, Room 5-108, B6/268, University of Wisconsin, 600 Highland Avenue, Madison, WI 53792. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. Available for investigating the cellular and molecular biology of dopaminergic neurons. Cell biology projects include studying receptor-effector coupling mechanisms, G protein interactions, and mechanisms of receptor regulation in clonal cell lines. Molecular biology projects involve the cloning of novel receptor subtype cDNAs, analysis and characterization of their expression, and regulation of gene expression. Please send curriculum vitae and at least two letters of recommendation to: Dr. David R. Sibley, National Institutes of Health, Building 10, Room SC-108, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity Employer.

POSTDOCTORAL POSITION TO STUDY GENE REGULATION

UNIVERSITY OF MICHIGAN

POSTdoctoral position available to study the molecular biology and biochemistry of aging of human skin. Specific areas of interest include (i) transcriptional regulation, (ii) cell cycle regulation and its effect on senescence, and (iii) growth factors and cytokines, and (iv) retinoic acid receptors. Position offers a competitive salary and a stimulating work environment at a private medical university. Address applications, including fields of interest and curriculum vitae, to: Dr. Charles L. Voorhees, M.D., Professor and Chairman Department of Dermatology 1301 East Catherine Street, Room R658 Ann Arbor, MI 48109-0528 The University of Michigan is a non-discriminatory Affirmative Action Employer.

POSTDOCTORAL POSITION IN PHARMACOLOGY AND TOXICOLOGY

Department of Pharmacology and Toxicology, Michigan State University. A Ph.D. scientist is needed to participate in research directed toward understanding the biochemical mechanisms by which certain chemicals inhibit the synthesis of insulin in animal and/or cellular systems. A strong background in biochemistry, pharmacology, or other disciplines in which molecular biology knowledge and experience have been gained is desirable. Measurement of mRNA levels by Northern analysis and other methods of investigation into the processes connected with synthesis of polypeptide hormones will be part of the research program. Funds are available for a 1- or 2-year commitment. Contact: Lawrence J. Fischer, Ph.D. Institute for Environmental Toxicology C-231 Holden Hall Michigan State University East Lansing, MI 48824 Telephone: 517-353-6469 BONUS CIRCULATION FOR YOUR CLASSIFIED AD Our issue of 16 November 1990 will be distributed to scientists attending the meeting of the American Society for Cell Biology (ASCB) in San Diego, California, 9 to 13 December 1990. Deadline for submission of line classified ads: 1 November 1990.

SCIENCE Classified Advertising Telephone: 202-326-6555 FAX: 202-682-0816

POSTDOCTORAL POSITION IN NEUROBIOLOGY

Department of Anatomy and Neurobiology at Boston University School of Medicine has posted a position for a postdoctoral scientist interested in training in a program in structural aspects of neurobiology supported by the National Institute of Neurological Disorders and Stroke. All participating faculty have funded research programs, involving such approaches as electron microscopy, histochrometry, receptor binding, neuropharmacology, electrophysiology, cell culture, and behavioral testing in a variety of neuronal systems. NIH regulations require U.S. citizens or U.S. resident enrollment. Contact: Dr. Alan Peters, Chairman, Department of Anatomy and Neurobiology, Boston University School of Medicine, 80 Longwood Avenue, Boston, MA 02118. An Equal Opportunity Employer.

SMITHSONIAN INSTITUTION FELLOWSHIP PROGRAM

GRADUATE STUDENT, PRE-, POST-, AND SENIOR POSTDOCTORAL FELLOWSHIPS in American history and material culture, anthropology, biological sciences, earth sciences, art, history of science and technology. Tenable in residence at the Smithsonian and its research facilities. Stipends and tenures vary. Deadline: 15 January annually. Contact: Smithsonian Institution, Office of Fellowships and Grants, 955 L'Enfant Plaza, Suite 7300, Desk 5, Washington, DC 20560. Telephone: 202-357-2824. Awards are based upon merit, without regard to race, color, religion, sex, national origin, age, or condition of handicap of applicant.

THE JAQW FELLOWSHIPS IN SKELETAL METABOLISM

JOHNS HOPKINS MEDICAL SCHOOL

The Bone Metabolism Research Laboratory studies heritable and acquired disorders of skeletal and connective tissues. Qualifications include a Ph.D. with experience in the molecular biology of collagen or skeletal matrix proteins. As stipulated by the foundation, this position is available to residents in the United States educated in New York. Applicants should submit their curriculum vitae to: Jay R. Shapiro, M.D., Division of Geriatric Medicine, Johns Hopkins Medical School, Asthma Building, 301 Bayview Boulevard, Baltimore, MD 21224.

RESEARCH INSTRUCTORS, POSTDOCTORAL FELLOWS, AND TECHNICIANS. Available immediately for well-funded new initiative. Genomic projects involving novel tumor suppressor genes, nuclear structure/function, DNA repair, and cell cycle progression. Laboratory is located in pleasant Georgetown environment, consideration given to New York applicants. Send curriculum vitae and three letters of recommendation to: Dr. Tracy D. Wilkins, Department of Anatomic Microbiology, Virginia Tech, Blacksburg, VA 24061-0305. Virginia Tech is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE

Study on the toxins of Cladium mariscus. Experience in recombinant DNA technology, protein purification, and anaerobic bacteriology desired. Position closes 15 October 1990. Send curriculum vitae and three letters of recommendation to: Dr. Tracy D. Wilkins, Department of Anatomic Microbiology, Virginia Tech, Blacksburg, VA 24061-0305. Virginia Tech is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL/RESEARCH ASSOCIATE

POSITION OF MOLECULAR BIOLOGY OF THE NSF GRN. Available to study mutations in the recently cloned neurofibrinoblastomogen gene and examine the effects of these mutations on the expression of the gene in a variety of tissue types. Applicants must have a Ph.D. or M.D. degree and have a strong background in molecular biology and molecular genetics. The position is for a term of two years, with the possibility of renewal. The starting salary is between $25,000 to $30,000 depending on experience. Please send curriculum vitae and names and addresses of three references to: Dr. R. C. F. Plaut, University of California, Los Angeles, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Los Angeles, CA 90048. Telephone: 213-855-5166.
Challenging Opportunities In Biomedical Research

Staff Fellowship Program
DHHS/PHS/Food And Drug Administration
Center For Biologics Evaluation And Research

The Center for Biologics Evaluation and Research is searching for outstanding candidates to conduct biomedical research in order to provide a strong scientific base for the regulation of biological products. Current research includes investigations in the areas of viral and bacterial diseases and vaccines, mechanisms of pathogenesis, cytokines and growth factors, allergy and immunology, parasitic diseases, and developmental biology. We have active research on AIDS and related diseases. This is a truly unique fellowship program which integrates diverse biomedical research efforts with an introduction to the scientific principles applicable to biologics development and control.

Qualifications: Candidates must have completed all requirements for a Medical or Doctor of Philosophy/Science Degree and must be either U.S. citizens or resident aliens eligible for citizenship within four years. Foreign medical school graduates must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification.

Duration: Appointments are for an initial two-year period and may be extended up a total of seven years.

Location: Laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland.

Salary: Salary range for candidates with a Doctor of Philosophy/Science Degree is from $24,000 to $46,861. Salary range for candidates with a Medical Degree is from $28,000 to $54,726. Salary, research support, and level of responsibility are commensurate with education and experience.

How To Apply: Candidates should send a current curriculum vitae and bibliography to:

FDA/Center for Biologics Evaluation and Research
Building 29, Room 104.A
8800 Rockville Pike
Bethesda, Maryland 20892

Applications are accepted throughout the year, and candidates should indicate when they will be available for employment. However, to receive full consideration under this announcement, applications must be received by Monday, January 14, 1991. For further information, call Ms. Boyer or Ms. Wilcox on (301) 496-5394 or 496-4357.

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THE ROYAL SOCIETY
ROYAL SOCIETY RESEARCH PROFESSORSHIPS

The Royal Society invites applications for four Royal Society Research Professorships tenable from 1 October 1991 for research in the physical sciences (including mathematics, engineering and technology). Salaries will be well above the prevailing professorial minimum and include superannuation. Research professors may bid for an annual research expenses of £13,500 or higher and for support for research or technical assistants, and there will be start-up grants of up to £35,000. Assistance will be given with removal expenses for successful applicants from overseas.

Appointments, which are tenable from 1 October 1991 and are open only to British citizens, are normally held at universities in the United Kingdom, and are for five years in the first instance. Details of tenure will be decided later but it is expected that one of the four vacancies will be renewable until retirement and the other three for one further five-year period after the initial five years.

Details of the appointments are available from Mrs U.M.A. Tolke, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG. (Fax 071-930 2170). The closing date for applications is 16 November 1990; no applications arriving after 4 p.m. on that date will be considered.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Positions are available for recent Ph.D. graduates in biochemistry and molecular biology to work on mechanisms of gonadotropin, EGF, and eicosanoids action. Candidates with experience in the techniques of biochemistry and molecular biology such as subcellular fractionation and nuclear isolation, membrane protein and enzyme purification, measurement of enzyme activities, in vitro transcription, mRNA transport and translation, DNA and RNA isolation, and cloning, preparation and analysis of electrophoretic gels, and hybridization, protein, RNA and DNA blotting are considered. If interested, contact: Dr. Ch. V. Rao, Department of Obstetrics and Gynecology, 438 MDR Tower, Building, University of Louisville School of Medicine, Louisville, KY 40292, FAX: 502-588-0881, and arrange to send four recommendation letters.

POSTDOCTORAL RESEARCHERS

The Department of Physiology, University of California, Irvine, is developing a postdoctoral candidate pool for possible openings during the remainder of the 1990–1991 fiscal year. Openings may be available in the following research areas: Developmental neurobiology, ion channels in lipid bilayers, physical chemistry of membranes, and regulation of steroid hormone biosynthesis. Candidates should have a Ph.D. (or related) postdoctoral stipends which are based on qualifications and years of prior, relevant postdoctoral experience. Minorities and women are encouraged to apply. Send curriculum vitae and names of three references to: Scott E. Fraser, Chairman, Department of Physiology, University of California, Irvine, CA 92617.

LANDSCAPE ECOLOGY, NUTRIENT CYCLE, ECOSYSTEM BIOCHEMISTRY, HYDROLOGY

POSTDOCTORAL RESEARCH ASSOCIATES AND GRADUATE RESEARCH ASSISTANTS

The Andrews Forest Ecosystem Research Group at Oregon State University is seeking applications for postdoctoral research on ecosystems of the Pacific Northwest. Two postdoctoral positions (research associate) are available immediately in (i) landscape ecology: effects of forest disturbance on landscape structure, basin-scale hydrology, and stream processes; (ii) nutrient cycling: processes of decomposition, trace gas emission, organic matter turnover, and N transformations; (iii) biogeochemistry: integrating processes controlling soil solution chemistry, and biogeochemistry-ecosystem interactions. Work will emphasize modeling and GIS applications; opportunities for field and laboratory studies also exist. Ph.D. required. Full-time, fixed-term, 12-month positions. Salary: $24,000 to $30,000 depending on qualifications. For more information, contact: Fred Swanson (503-750-7865; swanson@or.ornl.gov) or Phillip Sollins (503-737-2244; sollins@or.ornl.gov). Send letter of application, complete résumé, and names and references of three previous or present coworkers to: Dr. Logan Norris, Department of Forest Science, Oregon State University, Corvallis, OR 97331–5705. Stipends are also available for graduate students involved research related to the Andrews Ecosystem Program and leading to a Ph.D. or M.S. in forest science, soil science, botany, and other fields.

RESEARCH ASSISTANT

For university in southwestern Ohio. Administration of pharmacological agents and dietary manipulation of rats, spectrophotometric analysis of the membrane-bound phosphatase rhodopsin in the rat eye, monoclonal antibody-based methods for protein analysis, isolation of ocular tissue membranes by differential centrifugation techniques, lipid analysis by gas liquid chromatography of fatty acid methylsters and nonanomol phosphorus analysis. Job requires B.A. in pharmacy and 1-11/2 years of experience as research assistant (pharmacy or biochemistry research). Knowledge of biochemistry of membranes evidenced by 4 or more months’ work experience or one graduate level academic course. Evidence of published work as author or coauthor in the field of vision research. Forty hours per week. Salary: $18,000 per year. Must have proof of legal authority to work permanently in United States as required by U.S. Immigration Act (to J. Davies, J/04 1245094, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

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RESEARCH TECHNICIAN

Drosophila genetics laboratory is seeking a laboratory technician whose responsibilities will include maintenance of laboratory stock collection, mutagenesis screens, cytological work, and related experiments. Applicants should have experience in eukaryotic genetics work or be highly motivated to learn. B.S. degree in biological science or equivalent required, laboratory experience preferred.

Howard Hughes Medical Institute offers excellent salaries, a generous retirement plan, and flexible benefits, including health insurance. Please send curriculum vitae, references, and salary requirements to: Dr. R. Hazdrig, Howard Hughes Medical Institute, Box T, University of Utah, 701 Wintrobe Building, Salt Lake City, UT 84112.

An Equal Opportunity Employer.

MOGAM BIOTECHNOLOGY RESEARCH INSTITUTE, KOREA

SOUTH KOREAN SENIOR RESEARCH SCIENTISTS

Applications are invited from Korean scientists with a few years of postdoctoral experience in the field of molecular biology, molecular and cellular immunology, nucleic acid and protein chemistry, and molecular virology. It is expected that applicants will be able to work independently and be able to lead a research team.

MØGAM Biotechnology Research Institute is a non-profit organization established by the Korea Green Cross Cooperation in 1984. The Institute is located 10 miles south of Seoul and has excellent research facilities for modern research.

Please send applications, including curriculum vitae and the names and addresses of two referees, to: Dr. H. M. Moon, AOL, Inc., Suite 403, 1055 Parsippany Boulevard, Parsippany, NJ 07054. Telephone: 201-402-5950. FAX: 201-402-5949.

WANTED

SENIOR SCIENTIST

Support R&D projects and conduct independent research plus develop proposals/documentation. Prefer Ph.D. in botany (or related) with experience in vegetation sampling/statistical analysis of plant communities. Familiarity with ELAS desired.

DATA ANALYST

Provide data analysis/support to scientists. B.S.C.S. with strong science major in biochemistry or related. Research experience in forestry, marine biology (or related) is required (M.S. preferred). Experience in support of wetlands or estuarine systems research and strong ELAS experience also needed.

Send your resume to: Lockheed Engineering and Sciences Company, Building 1103, Stennis Space Center, MS 39529. Lockheed is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Available to participate in cardiovascular research by performing duties as: (i) cardiac and peripheral vascular surgery on large animals to initiate arterial thrombosis; (ii) monitor physiological, coagulation, and platelet functions; (iii) analyze results; write and present papers. Applicants must have ability to work independently in a team environment. Requirements: M.D. or Ph.D. or equivalent, 4 years of experience in cardiovascular research, and extensive knowledge of experimental models of arterial thrombosis. Salary: $27,500 per year. Send résumé and references to: Dr. Burt Adelman, P.O. Box 230, MCV Station, Richmond, VA 23298.

ASSISTANT RESEARCH SCIENTISTS. Postdoctoral positions available in the laboratory of Dr. George W. Teebor, Department of Pathology, to join in purification and isolation of cDNAs of two mammalian enzymes, two enzymes which we believe to be involved in the maintenance of methylated cytosine residues in DNA [JBC 264, 13306 (1989)]. Antibodies against one of the enzymes are on hand to facilitate cloning. The purified enzymes will be used in the study of gene-specific repair and the cDNAs will be used to study their expression during development and tumorgenesis. Experience in protein biochemistry and molecular biology or related fields is desirable. Please send résumé and names of three references to: Maha Singh, Personnel Department, New York University Medical Center, 500 First Avenue, New York, NY 10016. Equal Opportunity Employer, M/F.

RESEARCH TECHNICIAN

Mammalian genetics laboratory is seeking a laboratory technician whose responsibilities will include maintenance of laboratory stock collection, mutagenesis screens, cytological work, and related experiments. Applicants should have experience in eukaryotic genetics work or be highly motivated to learn. B.S. degree in biological science or equivalent required, laboratory experience preferred.

Howard Hughes Medical Institute offers excellent salaries, a generous retirement plan, and flexible benefits, including health insurance. Please send curriculum vitae, references, and salary requirements to: Dr. R. Hazdrig, Howard Hughes Medical Institute, Box T, University of Utah, 701 Wintrobe Building, Salt Lake City, UT 84112.

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**POSITIONS OPEN**

**ASSOCIATE RESEARCH SCIENTIST.** Perform research in the measurement of passive scalars and velocity fields in turbulent and unsteady flows, using laser-induced fluorescence and particle velocimetry. Compare best basis functions for expanding turbulent fluctuations in one, two, and three dimensions. Identify and analyze vortex flow patterns. Develop velocity fields and present complete three-dimensional flow fields. Requires a Ph.D. in engineering or applied mechanics. No specific experience required. Requires detailed background in turbulent and unsteady flow measurements, optical information processing, computational fluid mechanics, and vorticity analysis as evidenced by specific research or authored publications for professional journals in these disciplines. Monday to Friday, 9:00 a.m. to 5:00 p.m.; $33,000.00 per annum. Please send résumé to: Job Service Technical Unit, Connecticut Department of Labor, 200 Full Brook Boulevard, Wethersfield, CT 06109. Refer to: Job Order Number 3076623.

**RESEARCH SCIENTIST/VIROLOGY**

Kansas manufacturer of veterinary biologicals has position available for a research scientist/virology specializing in development of vaccines. Position requires a Ph.D. or Doctor of Veterinary Medicine degree with at least 2 years of experience in animal health industry. Requires 3 to 5 years of experience involving planning, scheduling, and execution of biological research projects; analysis and reporting of technical data; and experience in training and supervising support personnel. Incumbents at this level must have demonstrated at least five accomplishments such as development of new products, publications, or patents. Requires handling and performing tests upon small (laboratory) and large (farm) animals. Requires experience utilizing computers for data analysis as well as working knowledge of statistics. Requires experience with cell culture including suspension culture, ELISA techniques, and electrophoresis.

Excellent company benefit package. Send résumé including salary history to:

Moby Animal Health Division
Human Resources Department
P.O. Box 390
Shawnee, KS 66201

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Excellent company benefit package. Send résumé to:

Joseph F. Fraumeni, Jr., M.D.
Associate Director for Epidemiology and Biostatistics
National Cancer Institute
National Institutes of Health
Bldg. 10, Room 12N214
Bethesda, MD 20892
(301) 496-6375
(301) 496-1611

Deadline for Applications: March 1, 1991

**NCI FELLOWSHIP PROGRAM IN CLINICAL ONCOLOGY AND CANCER EPIDEMIOLOGY**

The National Cancer Institute is accepting applications for a joint fellowship training program in clinical oncology and cancer epidemiology. Physicians with multidisciplinary training in clinical oncology, epidemiology, and etiologic research are becoming increasingly important in identifying cancer risk factors that may lead to further insights into human carcinogenesis and prevention strategies. This fellowship program offers such multidisciplinary training to physicians who have completed a minimum of two years in internal medicine or pediatrics.

The Clinical Oncology-Cancer Epidemiology Program is part of NIH's Clinical Associate Program, and offers three-year fellowships beginning July 1, 1991. The first year consists of clinical training in the Clinical Oncology Program, Division of Cancer Treatment. During this year, associates undertake the primary care of inpatients and outpatients entered into clinical trials and develop expertise in cancer diagnosis and treatment. Openings are available in the Medicine Branch, the NCI-Navy Medical Oncology Branch, and the Pediatric Branch.

During the second and third years, associates spend about 80% of their time in the Epidemiology and Biostatistics Program, Division of Cancer Etiology, and the remainder of their time in continuing clinical activities in the Division of Cancer Treatment. In the epidemiology program, associates work under the direction of senior investigators in the Environmental Epidemiology Branch, the Clinical Epidemiology Branch, the Radiation Epidemiology Branch, and the Biostatistics Branch. All Branches are involved in research into environmental and host determinants of cancer. Opportunities for collaborative research may also be available in one of the intramural laboratories within the Institute.

This three-year fellowship is designed to fulfill the subspecialty requirements for Medical Oncology and Pediatric Hematology-Oncology. Candidates who have completed at least one year of clinical oncology training may be considered for direct entry into the second year of this program. Clinical Associates may enter the U.S. Public Health Service by means of the Civil Service or Commissioned Corps. For the Civil Service appointment, the starting salary is $37,000, with annual increases of $2,000 for each additional year in the program. Salaries for Commissioned Officers vary based on level of training and experience. Clinical Associates receive benefits that include health care, life insurance, vacation, and sick leave. In addition, moving and travel expenses are provided.

For further information and application procedures, please contact either:

Gregory Curt, M.D.
Clinical Director
National Cancer Institute
Bldg. 10, Room 12N214
Bethesda, MD 20892
(301) 496-6375

Joseph F. Fraumeni, Jr., M.D.
Associate Director for Epidemiology and Biostatistics
National Cancer Institute
Executive Plaza North, Room 543
Bethesda, MD 20892
(301) 496-1611

**NATIONAL CANCER INSTITUTE**
**NATIONAL INSTITUTES OF HEALTH**
**U.S. PUBLIC HEALTH SERVICE**

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**ANNOUNCEMENTS**

**RESEARCH INQUIRIES INVITED**

The Smokeless Tobacco Research Council, Inc., invites inquiries regarding grant applications. The council sponsors independent research into questions of smokeless tobacco and health. Research support is through a program of grants-in-aid. Grant applications are evaluated by the Scientific Advisory Board to the council and will be judged solely on the basis of scientific merit and relevance.

Deadlines for submission of grant applications are 31 December for 1 July funding and 30 June for 1 January funding. Address inquiries or requests for applications to: The Smokeless Tobacco Research Council Inc., 420 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.

1991 MARKET FELLOWSHIPS

Applications are invited from Ph.D.s in the biological and biomedical sciences for summer research fellowships at the Mount Desert Island (MDI) Biological Laboratory, internationally renowned facility for comparative physiology and marine biology. Applicants should have several years beyond completion of the doctorate and evidence of independent research. The fellowships, sponsored by the Lucille P. Markey Trust, are based on individual needs and can include salary as well as laboratory space, housing, funds for supplies, and travel. Applications may be obtained by calling the office at 207-288-3606 or writing to MDI Biological Laboratory, Department LPM, P.O. Box 35, Salsbury Cove, ME 04672. Deadline for completed applications is 11 January 1991.

1991 FEW SUMMER FELLOWSHIPS FOR UNDERGRADUATE FACULTY AND STUDENTS

The Mount Desert Island (MDI) Biological Laboratory internationally renowned facility for comparative physiology and marine biology, and the Pew Charitable Trusts have established a summer program designed to enhance undergraduate education in the biological sciences. Fellowships are awarded in three categories:

- Faculty member with Ph.D. actively teaching biology at the undergraduate level.
- Undergraduate student with minimum of 1 year of both biology and chemistry.
- Faculty/student pair with same qualifications as above.

Awardees may work from 1 to 4 months at the MDI Biological Laboratory, with senior scientists. In the case of faculty or faculty/student pairs, may choose to work independently. Funding provides for housing, travel, and a stipend. Application: maximum fellowship award is $14,000 with up to $6,000, school maximum student award is $6,000 with up to $2,400 salary. Applications may be obtained by calling the office at 207-288-3606 or writing to MDI Biological Laboratory, Department PCT, P.O. Box 35, Salsbury Cove, ME 04672. Deadlines for completed applications is 10 December 1990.

**SITUATIONS WANTED**

**AQUATIC ECOLOGIST, Ph.D.** (1991); 15 years of field and laboratory experience. Seeks coastal or freshwater research, United States or abroad; global environmental issues. Box 108, SCIENCE.

**BIOCHEMIST** with 20 years of experience in computer modeling and simulation of chemical and biological systems. Seeking research position or consulting. Box 114, SCIENCE.

**BIOLOGIST/COMPUTER SCIENTIST, Ph.D.** Experienced in image processing, pattern recognition, digital communication systems, gene databases, microbiology. CRAY Y-MP. Telephone: 619-944-6227.

**CONSERVATION BIOLOGIST** Highly motivated, enterprising, published individual seeking a post-doctoral position in field/laboratory research. All areas of interest. Scott R. Campbell, 16 East 36th Street, Reading, PA 19606. Telephone: 215-779-1511.

Well-funded Ph.D. professor doing research in EXPERIMENTAL PATHOLOGY seeks to relocate to Eastern university or industry. Box 104, SCIENCE.

**FLOW CYTOMETRIST, Ph.D.** Established scientist with numerous publications, broad experience including clinical. Seeks industry, university, clinical, or academic. Will consult part time. Box 105, SCIENCE.

**IMMUNOLOGIST, Ph.D.** Background in human tumor immunity, hybridomas, monoclonal antibodies, and cell culture. Seeking management position in biotechnology R&D. Box 26, SCIENCE.


**MOLECULAR BIOLOGIST, M.S. E. coli cloning, sequencing; DNA/RNA manipulations, mammalian cell culture. Seeking research position in northern California/Pacific Northwest. Box 107, SCIENCE.


**PLANT BIOLOGIST, Ph.D.** Tenured associate professor in comprehensive university seeks position in industry. Experience in tissue culture, recombinant DNA technology. Box 109, SCIENCE.


**PLANT PHYSIOLOGIST/AGRONOMIST:** Four years of postdoctoral experience, plant stress physiology; teaching experience. Seeks teaching/research/botany, plant physiology, agricultural science. Box 110, SCIENCE.

**SCIENTIST, M.D./M.S.** Five years of research experience in molecular biology, tissue culture, medical sciences. Seeks research, industrial, government, academic position. Box 111, SCIENCE.

**COMPLETING Ph.D. in TOXICOLOGY, B.A.** in English. Excellent communication skills. Seeking regulatory/health assessment position. Prefer nonmetropolitan area. Box 112, SCIENCE.

**MEETINGS**

University of Southern California Comprehensive Cancer/AMGEN Symposium on "GENE REGULATION IN DEVELOPMENT"

A symposium to be held at the University of Southern California (USC) Comprehensive Cancer Center, 2025 Zonal Avenue, Los Angeles, on Friday, 16 November 1990, sponsored by AMGEN. Speakers will include: Bob Bosselman, Ph.D., AMGEN, Newbury Park, California: "Gene Transfer into the Chicken." Chii Nguyen-Huu, Ph.D., Kenneth Norris Jr. Comprehensive Cancer Center/USC, Los Angeles: "Expression and Function of Homeobox Genes in Mouse Embryogenesis." Irving L. Weissman, M.D., Stanford University School of Medicine, Stanford: "Hematopoietic Stem Cells and Hematopoietic Differentiation." Mario R. Capecchi, Ph.D., University of Utah, Salt Lake City: "Creating Mice with Specific Mutations through Gene Targeting." Gerald Rubin, Ph.D., University of California, Berkeley: "Cell-Cell Communication and Development of the Drosophila Eye." Frank Grosveld, Ph.D., National Institute for Medical Research, London, United Kingdom: "Regulation of Human Globin Gene Expression." Admission is open to all and there is no charge for attendance. However, early registration is advised due to limited space. Please indicate your desire to attend by responding to: Joseph E. Lowery, Coordinator, Cancer Center Symposiums, NO. 743, Kenneth Norris Jr. Comprehensive Cancer Center at USC, 1441 Eastlake Avenue, Los Angeles, CA 90033.

**COURSES AND TRAINING**

**CAREER CHANGE OPPORTUNITY**

This unique program offers the candidate with an earned doctorate in the sciences an opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, or government. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Box S, 424 Beacon Street, Boston, MA 02115.

**FELLOWSHIPS AND ASSISTANTSHIPS** are available for Ph.D. degree in molecular and cell biology. Research areas covering eukaryotic as well as prokaryotic systems include studies on the control of gene expression during growth and differentiation, ultrastructural-functional relationships, transport mechanisms, vision, signal transduction, hormone-receptor interactions, molecular genetics, and protein/enzyme structure and function are available in the laboratories of outstanding faculty. Please contact: Dr. Inder K. Vijay Program in Molecular And Cell Biology University of Oregon, Eugene, OR 97403.

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Quotes from Using the Apple Macintosh in Molecular Biology newsletter.

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Editor
Sequence Analysis Review Publication

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