**PERSONNEL PLACEMENT**

**LINE CLASSIFIED ADVERTISEMENTS**

- **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. Science is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.

- **How to Submit a Classified Ad:** Prepare double-spaced typewritten copy. Do not include any abbreviations. Science will edit and typeset ads according to Science guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.

- **Mail or FAX materials to:**
  Science Classified Advertising
  1933 H Street, N.W., Room 814
  Washington, D.C. 20006
  Telephone: 202-326-6555
  FAX: 202-682-0816

- **Rates:** Ads are $42 per line; $420 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads.

- **Ads from Outside the U.S.:** A discount of $30 will be offered to advertisers making payments in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +1 202 233 302076 (telephone) or +1 202 233 302068 (FAX).

- **Credit Cards:** Science accepts MasterCard and VISA. Discount does not apply to credit cards.

- **Cancellations:** Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

**DISPLAY PERSONNEL ADVERTISEMENTS**

For rates and info. about fractional display ads (all ads ¼ page and larger), contact:

- **Recruitment Advertising**
  Deborah Cummings
  Telephone: 202-326-6541

- **Janis Crowley, Recruitment**
  Advertising Manager
  Telephone: 202-236-7704
  FAX: 202-682-0816

- **Annemarie Vis**
  European Recruitment Advertising
  Telephone: +1 202 233 302067
  FAX: +1 202 233 302068

**CONDITIONS:** Personal advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. Science reserves the right, at its discretion, to decline to publish advertisements submitted to it.

**POSITIONS OPEN**

**FACULTY POSITION**

**CELL BIOLOGY**

Department of Biology
University of Virginia

**The Department of Biology at the University of Virginia invites applications for a tenure-track appointment at the ASSISTANT PROFESSOR level. An emphasis on research in cell biology is desired. Applicants must have at least a Ph.D. in cell biology or closely related fields. Research interests should be in the general area of cell biology. Applicants are expected to teach courses in cell biology at the undergraduate and graduate levels. A strong research record is required. Preferred candidates will be evaluated on research, teaching, and ability to work in a collaborative environment.**


**ASSISTANT/ASSOCIATE PROFESSOR**

**MEMBRANE BIOLOGY**

University of California, San Barbara

**Applications are invited for a faculty position in the Department of Chemistry at the ASSISTANT/ASSOCIATE PROFESSOR level. Research interest in membrane biology is preferred. Applicants must have a Ph.D. in chemistry and be committed to excellence in teaching and research. The successful candidate will be expected to develop an active research program at the interface of membrane structure and function and to participate in the Department's research programs.**

**APPLICATIONS:** Send a letter of application, curriculum vitae, descriptions of research interests and teaching experience, and the names of three references to: Dr. Kenneth Meister, Department of Chemistry, University of California, Santa Barbara, CA 93106. Science equal Employment Opportunity/Affirmative Action Employer.

**AQUATIC ECLOGIST**

University of Wisconsin, Madison

**The Department of Botany seeks an AQUATIC ECLOGIST at the ASSISTANT PROFESSOR level. The successful candidate will be expected to develop an active research program on the ecology and evolution of aquatic systems. The applicant must have a Ph.D. in ecology or a closely related field and a strong research record. Teaching responsibilities include undergraduate and graduate courses in aquatic ecology.**

**APPLICATIONS:** Send a letter of application, curriculum vitae, teaching and research statements, and the names and addresses of three references to: Dr. F. W. Schaal, Chair, Department of Botany, University of Wisconsin, Madison, WI 53706. Science equal Employment Opportunity/Affirmative Action Employer.

**TRENT UNIVERSITY**

**Trent University invites applications for a tenure-track appointment subject to budgetary approval, as a faculty member in the Biology Department at the ASSISTANT PROFESSOR level.**

**APPLICATIONS:** Send a letter of application, curriculum vitae, and three letters of recommendation to: Dr. D. R. Allan, Department of Biology, Trent University, Peterborough, Ontario, Canada K9J 7B8, by March 1, 1994.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR, PLANT Virology**

Montana State University

**The Department of Plant Pathology seeks an ASSISTANT PROFESSOR to teach and conduct research in virology. The successful candidate will be expected to develop an active research program and to teach courses in plant virology.**

**APPLICATIONS:** Send a letter of application, curriculum vitae, and three letters of recommendation to: Dr. D. R. Allan, Department of Biology, Trent University, Peterborough, Ontario, Canada K9J 7B8, by March 1, 1994.
Positions Open

Behavioral and Systems Neuroscience

The Center for Behavioral Neuroscience, SUNY at Stony Brook

The Center for Behavioral Neuroscience (CBN) is a newly established facility dedicated to collaborative, multidisciplinary research on the functional organization of the nervous system and applications for tenure-track positions at the ASSISTANT OR ASSOCIATE PROFESSOR level. Existing CBN faculty have strong interests in auditory and visual systems and in functional plasticity or in human neuroscience are particularly encouraged to apply.

Applicants should have the Ph.D. and/or M.D. degree, substantial evidence of research accomplishment, and a proven record of research accomplishment. The successful applicant will establish an independent, funded research program and will participate in the teaching mission of the Center. Closing date for applications is January 17, 1994. Initial appointments will begin in September 1994, however, recruitment will continue for at least two additional years.

For consideration, applicants should submit current curriculum vitae, description of research directions and name, number, and addresses of three references to: Search Committee, Center for Behavioral Neuroscience, SUNY at Stony Brook, Stony Brook, NY 11794-8570.

SUSB IS AN EQUAL OPPORTUNITY/AFIRMATIVE ACTION EMPLOYER.

Plant Morphologist and Plant Molecular Biologist

The Department of Biology, University of Saskatchewan, invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level, starting July 1, 1994. Ph.D. required. Send curriculum vitae, names and addresses and telephone or fax numbers of three references, and a brief description of research and teaching interests to: Dr. R. J. F. Smith, Department of Biology, University of Saskatchewan, Saskatoon, SK S7N 0W0, Canada. Telephone: (906) 964-4461. FAX: (906) 964-4461. Email: SMITHR@SASK.UASK.CA. Positions subject to budgetary approval. Deadline: January 15, 1994.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Saskatchewan is committed to the principles of Employment Equity: women candidates, candidates of aboriginal descent, and candidates from other minority groups are especially encouraged to apply.

Vertebrate Organ Systems/Neurobiologist

Assistant Professor tenure-track position available. Ph.D. required and strong commitment to undergraduate teaching. Teaching duties include Human Anatomy and Physiology, Neurobiology, General Biology, and an advanced course. New laboratory faculty position opened recently. Candidates must submit a letter of application, curriculum vitae, teaching philosophy, research interests and plans, and three letters of recommendation to: Orrie C. Stenroos, Ph.D., Chair, Biology Department, Lynchburg College, 1801 Lakeside Drive, Lynchburg, VA 24501-3199, by February 1, 1994. Applications from women and minority candidates are encouraged. Equal Opportunity Employer.

Plant Cell Biologist

The Department of Botany at North Carolina State University (NCSU) invites applications for a position at the rank of FULL PROFESSOR. We are seeking individuals applying techniques in the forefront of cell biology to the study of plants, and whose research complements strong existing programs in plant molecular biology and genetics. Applicants should have an active, innovative research program and a strong record of research productivity, a commitment to teaching, and a list of previous training students; and evidence of effective and innovative teaching. Provide a summary of research interests and teaching experience in your letter of application. Send a copy of your curriculum vitae, a statement of teaching and research, a list of three references to: Dr. R. S. Boston, Chair, Search Committee, Department of Botany, Box 7612, NCSU, Raleigh, NC 27695-7612. Applications are due, but not limited to, February 15, 1994, or until a suitable candidate is identified. NCSU is an Affirmative Action/Equal Employment Opportunity Employer.

Positions Open

Plant Molecular Genetics

The Department of Botany invites applications for a 9-month, tenure-track position at the ASSISTANT PROFESSOR level beginning August 1994 or January 1995. We are seeking someone who is investigating fundamental questions in research areas such as the role of oxidative stress in the response of a higher plant model, like Arabidopsis thaliana. The successful candidate is expected to develop a nationally recognized, externally funded, research program that involves graduate and undergraduate students. The candidate should have a Ph.D. degree and postdoctoral experience in molecular biology. Send a letter of reference, a summary of research interests, and three letters of recommendation to: Dr. Heven Sie, Chair, Genetics Search Committee, Department of Botany, University of Maryland, College Park, MD 20742-5815. FAX: 301-314-9082. The University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

Molecular Neurobiologist

Applications are invited for a tenure-track faculty position at the ASSISTANT PROFESSOR level in the Department of Pharmacology. A Ph.D. or M.D. degree and postdoctoral experience are required. Selection will be based on scientific excellence and the potential to establish an outstanding independent research program. Preference will be given to candidates who will use research problems in neurobiology and neuropharmacology. The successful candidate will also teach and participate in graduate student training in the Department of Pharmacology, the Interdepartmental Graduate Program in Neurobiology, and the Interdisciplinary Program in Molecular and Cellular Biology. Applicants should send curriculum vitae, a statement of research plans, and three letters of recommendation by March 1, 1994, to: Molecular Neurobiology Search Committee, Department of Pharmacology, University of Washington, Seattle, WA 98195. The University of Washington is an Affirmative Action/Equal Opportunity Employer. We are particularly interested in receiving applications from qualified women. The University is an Affirmative Action/Equal Opportunity Employer.

Assistant Professor

Microbial Genetics

Applications are invited for a tenure-track position in microbiology. Applicants must have a doctorate in microbiology or related field and postdoctoral experience using molecular genetics approaches to address one or more of the following: microbial ecology, microbial development, and molecular mechanisms of cell proliferation and differentiation. The ideal candidate will have a background in microbiological analysis and be capable of independent scientific inquiry. The research program will involve an undergraduate research program, a graduate curriculum, and pilot and additional research programs in the area of microbiology. Send a letter of recommendation to: Dr. Mary Woodworth, Chair, Department of Microbiology, Miami University, Oxford, OH 45056. Miami University is an Equal Opportunity/Affirmative Action Employer.

Position in Medicinal Chemistry

The Department of Medicinal Chemistry and Pharmacology, University of Illinois at Chicago, invites applications for a full-time, tenure-track ASSISTANT OR ASSOCIATE PROFESSOR position. A Ph.D. in medicinal or organic chemistry and postdoctoral experience in medicinal chemistry with at least one year of related research is required. The successful candidate will establish a strong, externally funded research program, work closely with the graduate program in Chemistry, establish close working relationships with multiple faculty, and teach both in the occasional and graduate programs of the College. Evaluations begin on 1 May 1994 continuing until the position is filled. Send curriculum vitae, a research plan, statement of teaching effectiveness, a list of publications, and three letters of recommendation to: Dr. Martin J. Fitzloff, Chair, Search Committee, Department of Medicinal Chemistry and Pharmacology, College of Pharmacy, University of Illinois at Chicago, M/C 781, 833 South Wood Street, Chicago, IL 60612-7251; Telephone: 312-996-7245. FAX: 312-996-7107. Equal Opportunity/Affirmative Action Employer.

Faculty Position in Molecular Biology

The Department of Molecular Biology, College of Science and Technology, Stony Brook University, invites applications for a full-time, tenure-track position at the ASSISTANT PROFESSOR level, beginning August 1994. Applicants must have a Ph.D. in molecular biology. Responsibilities include teaching and research at the undergraduate and graduate levels in molecular biology and biology courses. Applicants must have a strong record of research productivity and the ability to establish an active research program involving graduate students. Applications will begin to be evaluated on February 15, 1994, and continue until the position is filled. Send curriculum vitae, a statement of teaching and research, and three letters of recommendation to: Dr. Robert C. Bishop, Chair, Search Committee, Department of Molecular Biology, College of Science and Technology, Stony Brook University, Stony Brook, NY 11794. The University is an Affirmative Action/Equal Opportunity Employer.

Associate/Full Professor

Cell Biology and Anatomy

The Department of Cell Biology & Anatomy, Oregon Health Sciences University, invites applications for a full-time, Associate or Full Professor. Department research is focused on mechanisms of cellular growth and development. Successful candidates are expected to have a background in molecular biology and to be involved in work that addresses the role of growth factor regulation of the cell cycle, the role of signal transduction in the regulation of cellular proliferation or the relationship between changes in the cytoskeleton and extracellular matrix. Successful candidates are expected to establish a research laboratory in one or more areas of cell and molecular biology. The University of Oregon Health Sciences University, Portland, OR 97201. Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.

Molecular Geneticist

St. Mary's College of Maryland, a small, public, liberal arts honors college, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, beginning August 1994. Applicants must have a Ph.D. in molecular genetics. Responsibilities include teaching and research at the undergraduate and graduate levels in molecular biology, cell biology, and general biology courses. Applicants must have a strong background in research, a commitment to teaching and research. Successful candidates will have a proven research record and the ability to establish an active research program involving undergraduate students. Applications will begin to be evaluated on February 15, 1994, and continue until the position is filled. Send curriculum vitae, a statement of teaching and research, and three letters of recommendation to: William Williams, General Search Committee, Department of Biology, St. Mary's College of Maryland, St. Mary's City, MD 20686. St. Mary's College of Maryland is an Equal Opportunity/Affirmative Action Employer.

EXERCISE CELLULAR AND MOLECULAR BIOLoGY

Assistant Professor

The School of Kinesiology at the University of Illinois at Chicago invites applications for a tenure-track position in exercise cellular and molecular biology. Candidates should have a background in physiology. Those with training in cellular and molecular biology will be given preferential consideration. Applicants should have a Ph.D. (Ph.D. or M.D.) and should have completed intensive postdoctoral training. The applicant should demonstrate clear potential to develop a productive research program and the ability to be an effective teacher. Salary will be commensurate with qualifications. Interested individuals should submit curriculum vitae and three letters of recommendation by February 15, 1994, to: Robert C. Hickson, School of Kinesiology, M/C 194, University of Illinois at Chicago, 901 West Roosevelt Road, Chicago, IL 60608-1516. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE/FULL PROFESSOR

Cell Biology and Anatomy

The Department of Cell Biology & Anatomy, Oregon Health Sciences University, invites applications for a full-time, Associate or Full Professor. Department research is focused on mechanisms of cellular control and we seek applicants with interests in the analysis of cell growth and differentiation. We are particularly interested in research that addresses the role of growth factor regulation of cell cycle, the role of signal transduction in the regulation of cellular proliferation or the relationship between changes in the cytoskeleton and extracellular matrix. Successful candidates are expected to establish a research laboratory in one or more areas of cell and molecular biology. The University of Oregon Health Sciences University, Portland, OR 97201. Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.
APPLIED ECOLOGY AND PARASITOLOGY
Miami University, Oxford, Ohio

The Department of Zoology seeks two assistant professors for tenure track positions; to begin duties in August 1994. Ph.D. in Zoology or biology required. Position 1—Parasitologist: The successful applicant will be expected to develop a viable independent research program in any area of parasitology, i.e., from classical parasitology to host-parasitoid relationships. Yearly teaching responsibilities will include a parasitology course, and either vertebrate or invertebrate zoology, and participation in a team-taught general biology course every other year. Position 2—An Applied Terrestrial Ecologist (e.g., research in agroecosystem ecology, conservation biology, integrated pest management, environmental toxicology, or factors related to global change) working at the population, community, or ecosystem level. Teaching responsibilities will include an undergraduate ecology course, participation in a team-taught general biology course, and either a vertebrate or an invertebrate zoology course. Depending upon the expertise of the successful applicant, graduate courses might include ecosystem ecology, ecotoxicology, or population ecology. Participation in the courses described above will be on a rotational basis. We seek an individual who would take full advantage of the research opportunities afforded by the Miami University Ecology Research Center (ERC), a facility comprising 178 acres of varied habitats ranging from agricultural fields, to old fields in various stages of succession, to woodland. The ERC, located 2 miles from campus, has full service research buildings, aviaries, a national network weather station monitoring long-term wet and dry deposition and climate parameters, and equipment required for manipulative ecological/agroecosystem/field toxicological studies. In addition, a full-time field manager and a graduate assistant are available to assist researchers in setting up field projects.

For both positions the successful applicants will be expected to develop viable independent research programs, and to seek external funding to support their research. We consider experience with obtaining extramural funding to be important. Both individuals will also be expected to supervise graduate and undergraduate research projects. Advancement will be based on teaching, research, and professional service, with primary emphasis on teaching and research. Miami University is a state-assisted institution in SW Ohio. The Department has excellent research facilities, strong Ph.D. and M.S. graduate programs, 32 faculty members and 54 graduate students. Qualified persons should submit a curriculum vitae, descriptions of teaching and research interests, and should arrange for three letters of recommendation and transcripts of all academic work to be sent to Dr. Douglas Taylor, Chair of Zoology, Miami University, Oxford, OH 45066. Application review will begin February 1, 1994. Miami University offers equal opportunity in employment and education.

Molecular Neurobiologist

The University of Calgary Neuroscience Research Group invites applications for a full-time academic Molecular Neurobiologist at the Assistant Professor level or higher. This position offers an excellent opportunity to develop an independent research program and collaborate in interactions with a multidisciplinary research environment. Duties include teaching and graduate student supervision. Qualifications include a PhD and/or MD (or equivalent), at least two years' postdoctoral experience and research interests in molecular biology of voltage-gated or ligand-gated ion channels or receptors.

The selected candidate must compete successfully for salary and establishment grant support from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada, and will have 75% of time protected for research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

Please submit a curriculum vitae, a statement of research interests, two reprints of recent publications, and the names, addresses, telephone and FAX numbers of three referees by January 31, 1994, to:

Dr. Brian A. MacVicar
Chair, Neuroscience Research Group
The University of Calgary
3350 Hospital Drive N.W.
Calgary, Alberta T2N 4N1

National Institutes of Health • Public Health Service
Bethesda, Maryland
A Senior Executive Service Vacancy

DEPUTY DIRECTOR
NATIONAL INSTITUTE ON AGING

THE POSITION: Deputy Director of the National Institute on Aging (NIA), one of the world's largest institutions in aging research. NIA conducts, fosters, and supports biomedical, social, and behavioral research and training pertaining to aging processes and common problems of older people. The Deputy Director serves as a member of the senior leadership of the Institute with responsibility for:

- development of Institute research programs and priorities;
- public and Congressional representation;
- development and defense of Institute budget proposals; and
- staff recruitment and development, including equal employment opportunity.

The NIA has a budget of $420 million and a staff of over 500 and is currently pursuing cutting edge research on Alzheimer's Disease, cardiovascular disease, cellular and molecular biology of aging, long term care, and osteoporosis, as well as a broad range of biologic and behavioral research related to the aging process.

SALARY RANGE: $92,900 to $115,700 per annum. Physicians may be eligible for Physicians Comparability Allowance up to $20,000 per year. Exceptional recruiting difficulty may result in payment of a recruitment or relocation bonus.

HOW TO APPLY: An Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography should be submitted to:

National Institute on Aging
Building 31, Room 2C02
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be postmarked no later than: February 4, 1994.

Further information about the position and qualifications requirements may be obtained by contacting Ms. Ann Baldwin Nucci at (301) 496-5347.

Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, sex, national origin, political affiliation, marital status, disability, age, or membership or nonmembership in an employee organization.

Please note this has been designated as a Federal Equal Opportunity Recruitment Program position.

NIH is an Equal Opportunity Employer
All qualified groups or individuals are invited to submit applications for research grants to undertake basic or applied medical and veterinary research for better understanding, treatment and prevention of infectious diseases.

Proposals may deal with viral, bacterial or parasitic diseases, and should include details of the proposed program. They will be evaluated by international authorities on the basis of their merits regarding innovative ideas and potential for making significant contributions to the improvement of both human and animal health.

Grants of $ U.S. 50,000 max. will be awarded for one year beginning June 1994 and may be renewable annually.

The deadline for submission of your proposal is March 31, 1994.

Please contact us quickly for an application form.

Orientation Committee
Fondation Pierre Richard Dick - Virbac
B.P. 305, 06514 CARROS Cedex, FRANCE
Tel: (33) 92 08 72 49 Fax: (33) 92 08 72 82

DEPARTMENT OF ENVIRONMENTAL ECONOMICS AND ENVIRONMENTAL MANAGEMENT

LECTURESHIPS

The University of York recently established a department that crosses the traditional boundaries between economics, biology and environmental science. EEEM, the Department of Environmental Economics and Environmental Management, is actively developing both undergraduate and graduate programmes that integrate biology and economics in the treatment of the environmental effects of human activity.

As part of its ongoing academic recruitment programme applications are invited for appointment to the posts of:

Lecturer, Systems Ecology (Ref: 4/3379) EEEM seeks an ecologist with a research interest in the management of ecosystems. Preference may be given to applicants specialising in dryland systems or tropical moist forests.

Lecturer, Environmental Management (Ref: 4/3380) EEEM seeks an individual with a background in environmental management and/or science. Demonstrated competence in geographical information systems will be an advantage.

For both posts you will have a PhD or equivalent academic research experience. Salaries will be in the range £13,601 £25,107 per annum.

Six copies of a letter of application with full curriculum vitae, including the names of three referees, should be sent by 31 January 1994 to the Personnel Office, University of York, Heslington, YORK YO1 5DD, from whom further details are available. Please quote the appropriate reference number.

KAROLINSKA INSTITUTE
CENTER FOR BIOTECHNOLOGY (CBT)
NOVUM

Postdoctoral research positions
in steroid/thyroid hormone receptor biochemistry & molecular biology

A couple of postdoctoral positions for work on the structure and function of steroid/thyroid hormone receptors as well as orphan receptors belonging to the same superfamily are available at the Center for Biotechnology, Novum, Karolinska Institute. The project involves state-of-the-art biochemical, molecular biological and cell biological approaches to understand the structure and function of these transcription factors.

The Center for Biotechnology (CBT) is situated at the South Campus of the Karolinska Institute, encompassing the Novum Research Center and Huddinge University Hospital. CBT has a staff of some 100 persons. Other research areas represented at CBT include molecular immunology and membrane biology. Novum Research Center also contains the Center for Nutrition and Toxicology as well as the Center for Structural Biochemistry (with facilities for X-ray crystallography, NMR-spectroscopy, EM and molecular modelling).

The positions as postdocs/research associates are initially for two years with possibilities for extension for up to four years. Preference is given to applicants with experience in molecular biology. Adequate laboratory resources will be provided.

Applications should be sent to Professor Jan-Åke Gustafsson, Center for Biotechnology, Karolinska Institute, Huddinge University Hospital, Novum, S-141 57 Huddinge, Sweden, together with CV, relevant publications and two recommendation letters.
JOHNS HOPKINS UNIVERSITY
BIOMEDICAL ENGINEERING

BIOMATERIALS SCIENCES The Department of Biomedical Engineering at the Johns Hopkins University School of Medicine has a tenured track opening at the Assistant Professor level, although more senior levels will also be considered. Researchers with postdoctoral training working on different aspects of biomaterials are invited to apply. Successful candidates are expected to establish an externally funded research program and participate in the teaching of undergraduate and graduate students.

Please send curriculum vitae and three letters of reference to: Dr. Murray B. Sachs, Biomaterials Search, Department of Biomedical Engineering, Johns Hopkins School of Medicine, 710 Traylor Bldg., 720 Rutland Avenue, Baltimore, MD 21205.

The Johns Hopkins University is an Equal Opportunity/ Affirmative Action Institution.
VIROLOGY R&D POSITIONS

Intervet Inc. is an innovative veterinary health company devoted to the continued development and manufacture of quality biologicals and pharmaceuticals for food and companion animals. Intervet, based in Millsboro, Delaware and employing over 250 people, is a subsidiary of AKZO which employs 80,000 people worldwide in a variety of manufacturing and health related fields. As a result of Intervet’s commitment to long term growth in the animal health field, career opportunities for qualified applicants are now available in the Virology section of the Research and Development Department for the following positions.

RESEARCH ASSOCIATE

Applicants must possess a M.S. plus experience in virology, preferably within an industrial setting. Individuals with a B.S. plus 4 or more years of post-graduate work in vaccine development will also be considered. The successful candidate will participate in an aggressive program of research and development regarding viral vaccines. Experience with virus propagation, cell culture, and diagnostic techniques (ELISA, SDS-PAGE Electrophoresis, Western Blot, serological and virological assays, etc.) associated with viral vaccine development is essential. Knowledge of statistical methods and experimental design for in vitro and in vivo studies is desired but not necessary. Responsibilities include the planning and performing of studies designed to satisfy USDA regulatory requirements for licensure of an animal vaccine. This position requires an individual who is goal oriented and enjoys the synergism of a project team approach.

PROJECT LEADER

Applicants must possess a Ph.D. plus experience in virology, preferably within an industrial setting. Applicants with a DVM or Master’s plus postgraduate experience in vaccine development will also be considered. Experience with multiple virus systems, cell culture, standard laboratory diagnostic techniques (ELISA, SDS-PAGE Electrophoresis, Western Blot, serological and virological assays, etc.) and an understanding of the pathogenic mechanisms associated with viral diseases of veterinary importance are essential. Expertise in experimental design and application of statistical methods for in vitro and in vivo studies is an asset. Licensing experience is highly desirable. Responsibilities are to lead multiple vaccine project teams in conducting and completing studies to satisfy USDA regulatory requirements for licensure of animal vaccines. This position requires an individual with excellent supervisory, organizational and communication skills to effectively champion theses vaccine projects through to product launch.

Intervet offers excellent working conditions, competitive salaries, and an outstanding benefits package. Please call (302) 934-8051 (X232), or forward resumes to: Human Resources Department, Intervet, Inc., P.O. Box 318, Millsboro, DE 19966.

CHAIR,
DEPARTMENT OF MICROBIOLOGY
AND IMMUNOLOGY

Medical College of Pennsylvania

The Medical College of Pennsylvania invites applications and nominations for the position of Professor and Chair, Department of Microbiology and Immunology. The Medical College seeks a distinguished scientist with a strong record of significant scientific productivity and an ability to attract external funding. The successful candidate should also have a strong record of accomplishment in teaching and demonstrated administrative skills.

This is a challenging position and a most exciting time for the Medical College. The Medical College of Pennsylvania is the academic center of Allegheny Health Education and Research Foundation (AHERR) which has components in the Delaware Valley and in Pittsburgh. A new research and teaching building was recently completed at the main campus in Philadelphia and the Department has moved into newly renovated laboratories in that facility. A letter of interest or nomination and curriculum vitae should be sent to Donald Faber, Ph.D., Chair, Microbiology Search Committee, Department of Anatomy and Neurobiology, 3200 Henry Avenue, Philadelphia, PA 19129.

Review of applications will begin on January 15, 1994 and will continue until the position is filled. Women and minority candidates are encouraged to apply. The Medical College of Pennsylvania is an Equal Opportunity Employer.

FACULTY POSITION IN THE DEPARTMENT OF NEUROSCIENCES
CLEVELAND CLINIC FOUNDATION RESEARCH INSTITUTE

Excitable CNS Membranes

The newly established Department of Neurosciences seeks an outstanding candidate to fill a faculty position at the Assistant, Associate, or full Staff level. Applicants must have a Ph.D. and/or M.D. and an active independent research program. Individuals must utilize state-of-the-art cellular and molecular biological techniques to investigate excitable CNS membranes, with the focus on synaptic structure and function, calcium imaging and analysis, and protein-protein interactions. Excellent departmental facilities and generous start-up funds are available. The Department of Neurosciences is housed in the Health Sciences Building, along with the Departments of Cell Biology and Molecular Biology. Opportunities for interdisciplinary collaboration are plentiful. Candidates should submit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to: Dr. Bruce D. Trapp, Chairman, Department of Neurosciences - NC30, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.
Structural Biology at the University of Connecticut Health Center

2 tenure track positions at the junior or senior level are available to expand the existing Biomolecular Structure Analysis Center.

The successful candidates will be expected to develop strong research programs in forefront areas utilizing macromolecular x-ray diffraction or NMR spectroscopy. Funds are available for the purchase of state-of-the-art equipment in each of these areas.

Primary appointments will be made in any of the basic science departments according to the interests of the candidate.

Applicants should submit curriculum vitae, summary of research interests, and names of references to:

Chair, Structural Biology Search Committee
Medical Dean's Office
University of Connecticut School of Medicine
263 Farmington Avenue
Farmington, CT 06030–1915

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER M/F/PW/D/V

MOLECULAR BIOLOGIST FORDHAM UNIVERSITY

Individuals are invited to apply for a tenure-track position at the ASSOCIATE PROFESSOR level, beginning Fall 1994. We are seeking an individual who will establish a vigorous, independently funded research program and provide excellent physical facilities, state-of-the-art equipment, a stimulating research environment, start-up funds and competitive salaries and benefits.

Candidates should possess expertise in the area of molecular biology and have an ongoing grant-supported research effort underway. The appointee will be expected to establish an active research program and participate in teaching at the graduate and undergraduate levels.

ECOLOGIST FORDHAM UNIVERSITY

The Department of Biological Sciences at Fordham University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, beginning Fall 1994. We are seeking an individual who will establish a vigorous, independently funded research program and supervise graduate students at the Louis Calder Center in Armonk, New York. The area of specialization is open, but possible research areas may include: population genetics of animals or plants, insect-plant interactions, experimental ecology of small mammals, or the ecology of reptile, fish or amphibian communities. The Louis Calder Center is a 113-acre wooded, biological field station with a diversity of terrestrial and aquatic habitats, laboratories, classrooms, a research library, and residences. The successful candidate will teach courses at the undergraduate and graduate levels within the Department of Biological Sciences. A Ph.D. is required and postdoctoral experience is preferred.

Please submit curriculum vitae, statement of research and teaching interests, and the names and addresses of three references by 30 January 1994 to: Dr. Berish Y. Rubin, Chairman, Department of Biological Sciences Fordham University, Bronx, NY 10458. Fordham University is an Affirmative Action/Equal Opportunity Employer.

The perfect environment for innovation.

To achieve the utmost in scientific and engineering excellence, it takes the ability to put vision into proper perspective. It takes the kind of professional experts who can make the most of that perspective and, of course, it takes an environment that breeds innovation.

We're Los Alamos.

Group Leader

The Geology and Geochemistry Group in the Earth and Environmental Sciences Division consists of approximately 30 technical staff and 20 support staff, students and postdoctoral fellows and includes facilities for the analysis of waters, rocks and minerals. Current emphasis is on basic and applied research in selected geochemical, hydrogeologic, hydrothermal, geomorphic, and mineralogic phenomena important to national priorities in the areas of environmental quality, energy security, and national defense related to the Department of Energy's missions. The group is active in laboratory, field, and computing studies. Excellent experimental laboratories, field test sites and computing facilities are available.

Responsibilities: Responsible for the overall performance of the group, to include providing skilled personnel management and leadership for defining strategic directions. Additional responsibilities include developing technical capabilities that support program requirements and scientific strengths, implementing TQM approach, team development for focused research, working with internal and external organizations on program development, negotiating funding/responsibilities/commitments. Will also promote technology transfer and personnel development and pursue both Environment, Safety and Health (ES&H) and Affirmative Action/Equal Employment Opportunity (AA/EOO) objectives.

Requirements: Must have experience in program development and execution, have sound business practices, a strong record of leadership, personnel management and development and a commitment to a diverse workforce. This position also requires a strong record of publication in peer-reviewed geosciences publications, a commitment to ES&H and AA/EOO goals and excellent interpersonal/oral/written communication skills. A successful record of strategic planning and technical, program, and technology transfer are desired, as is management training. Candidates must have a Ph.D. or the equivalent combination of education and experience in the geosciences or related fields.

Closing date for applications is January 31, 1994.

To formally apply for this position, interested candidates should forward a resume to Cathy Majerus (MS P282), Personnel Services Division 101388-L, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 667-6622. A Teletype Device for the Deaf (TDD) is available by calling (505) 665-5357. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

Los Alamos NATIONAL LABORATORY
THE DEPARTMENT OF PATHOLOGY OF THE UNIVERSITY OF ILLINOIS AT CHICAGO has an immediate opening for an Academic Pathologist at the ASSISTANT/ASSOCIATE PROFESSOR level. Qualifications include an M.D. or M.D./Ph.D. degree, and certification in Anatomic and/or Clinical Pathology. Ongoing program development will also consider candidates with outstanding potential for developing independent, active, externally funded research program. The appointee is expected to contribute to the Department's undergraduate and graduate teaching programs. This is an excellent opportunity within the nation's largest medical school system with a graduate program in pathology, a major in medical microbiology. Salary is rank dependent on experience and credentials. Direct inquiries and submit curriculum vitae to: Jose R. Malanilagod, M.D., Ph.D., DEPARTMENT OF PATHOLOGY, MC 847, UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE, 1819 West Polk Street, Chicago, IL 60612-7383. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY
University of Nebraska, New York

The Department of Biological Sciences is seeking to fill a tenure-track faculty position at the level of ASSISTANT/ASSOCIATE PROFESSOR. Joint appointment in the University of Nebraska's Southern Campus is possible. Responsibilities include teaching undergraduate and graduate courses in developmental biology, biochemistry, cell biology, molecular biology, physiology, and neurobiology. The appointee is expected to contribute to the University's undergraduate and graduate programs. The University seeks to increase diversity in its faculty, curriculum, and student body. In addition to teaching, candidates are expected to establish an active, externally funded research program. Experience teaching undergraduate and graduate courses in developmental biology, biochemistry, cell biology, molecular biology, physiology, and neurobiology is desirable. We seek candidates who will demonstrate they can be successful in teaching, research, and mentoring students. The appointee should have an A.B. or B.S. degree, plus a Ph.D. The starting date is negotiable; however, beginning August 16, 1994, is preferred. Please apply by February 1, 1994. The University of Nebraska is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY
Loyola University, New Orleans

The Department of Biological Sciences is seeking to fill a tenure-track faculty position at the level of ASSISTANT/ASSOCIATE PROFESSOR. This position is supported by the University's Office of Institutional Research and Development and requires a Ph.D._at the level of Assistant Professor. Proposals should be submitted to: The Chair, Department of Biological Sciences, Loyola University, New Orleans, Suite 305, P.O. Box 660677, Dallas, TX 75266-0677. An Equal Opportunity/Affirmative Action Employer.

ANIMAL BEHAVIOR
ASSISTANT PROFESSOR, Biology—Creighton University.
The Biology Department of Creighton University's College of Arts and Sciences and the Nebraska Behavioral Biology Group invite applications for a tenure-track Assistant Professor position with emphasis on the mechanisms of behavior. Applications should demonstrate the potential to teach introductory courses to majors and minors. Research areas in the neuroethology of invertebrates or lower vertebrates are strongly preferred, although candidates in other areas of behavior research will be considered. The candidate will have teaching responsibilities that range from introductory animal behavior courses to advanced seminars in specialized topics. Teaching is a primary responsibility of the position, and the candidate must be willing to develop and teach courses that contribute to the introductory biology curriculum. The candidate will also be expected to develop an active research program, which may involve collaboration with other faculty members. The successful candidate will be expected to teach introductory lecture/laboratory courses. The start date is January 1994. An Equal Opportunity/Affirmative Action Employer.

BSW 100
BAYLOR COLLEGE OF DENTISTRY

The Department of Biomedical Sciences invites applications for tenure-track appointments at the ASSISTANT/ASSOCIATE PROFESSOR level in the Department of Biomedical Sciences. The position is supported by the University's Office of Institutional Research and Development and requires a Ph.D. at the level of Assistant Professor. Supervision of research is expected, focusing on mechanisms of orofacial pain and neuromuscular function. The Department of Biomedical Sciences is responsible for the training of predoctoral dental students in craniofacial biology, molecular biology, physiology, and neurobiology. The department also has graduate programs leading to the Ph.D. in Craniofacial Biology and an M.D. in Craniofacial Biology. Current research includes studies of craniofacial development and growth, neuromuscular physiology, molecular mechanisms of neuredegeneration and pain, cell membrane physiology, and biomechanics of bone. Candidates should have a Ph.D. or a D.D.S. and postgraduate research training. Candidates should also exhibit clear evidence of independent research through publications and research grant support. There is no cut-off date for these positions. However, to be assured of full consideration, applications should be submitted by February 1, 1994. Send curriculum vitae and names of individuals who may be contacted for references to: David S. Carlson, Ph.D., Chair, Department of Biomedical Sciences, Baylor College of Dentistry, P.O. Box 660677, Dallas, TX 75266-0677. Baylor College of Dentistry is an Equal Opportunity/Affirmative Action Employer.

YORK UNIVERSITY
Toronto, Canada

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level in Cognition or Human Cognitive Neuroscience with research interests in one or more of the following areas: attentional and/or memory systems, language, comprehen- sion, categorization and concept formation, and spatial cognition. A Ph.D. in Psychology is required. Faculty in teaching research methodology, including quantitative and/or qualitative data analysis, is desirable but not required. Duties include teaching in both the graduate and undergraduate programs. Candidates should have a promising publication record and programme of re- search. Direct enquiries and applications, with curricu- lum vitae, application/cover letter, and three letters of reference sent to: Prof. David Reid, Chair, Department of Psychol- ogy, Faculty of Arts, York University, North York, Ontario, Canada M3J 1P3. Deadline for applications is January 16, 1994, with interviews being conducted to budget approval. York University is implementing a policy of Employment Equity, including Affirmative Action for women and persons with disabilities. Equal Opportunity/Affirmative Action Employer—women and diversity candidates are encouraged to apply.
The following Assistant, Associate Professor of Full Professor level positions will be available as part of a new Gene Therapy Initiative at the Bowman Gray School of Medicine at Wake Forest University and the North Carolina Baptist Hospital.

Biochemist/Molecular Biologist: This person should have a primary interest in the mechanisms and pathways of cytotoxicity, apoptosis and/or toxin mediated cellular killing.

Immunologist/Cytokine Biologist: This person will have an interest in the local stimulation of the immune system via the transfection of immunomodulatory or immunoregulatory molecules which would enhance tumor cell killing.

Cancer Biologist/Virologist: This person will have an interest in tumor targeting with viruses and/or viral related peptides.

Pharmacologist/Clincial Pharmacologist: This person will have an interest in mechanism of DNA delivery to target cells.

Transgenic Biologist: This person should have expertise in transgenic/knock-out models of important cancer related genes.

Bone Marrow Transplantation/Stem Cell Biologist: This M.D. or M.D./Ph.D. candidate should lead the clinical efforts in the use of bone marrow stem cells as a target or vehicle for gene therapy.

This multi-departmental recruitment involves the Departments of Biochemistry, Cancer Biology, Microbiology/Immunology, Physiology/Pharmacology, the Section of Hematology/Oncology in the Department of Internal Medicine and the Comprehensive Cancer Center of Wake Forest University. Please send C.V. to Frank M. Torig, M.D., Director, Comprehensive Cancer Center of Wake Forest University, Bowman Gray School of Medicine, Medical Center Blvd., Winston-Salem, NC 27157-1082.

AA/EOE

McMASTER UNIVERSITY, Department of Geology invites applications for a contractually limited appointment at the rank of Assistant Professor, subject to budgetary approval. We seek a person in the area of either BIOGEOLGY or PHYSICAL PROCESSES IN GEOLOGY AND GEOPHYSICS. The appointment has a duration of three years, commencing 1 July 1994. Candidates should have a Ph.D., demonstrated research ability and a lively concern with developing innovative teaching programs.

At both undergraduate and graduate levels, the Department requires all students to have a strong grounding in mathematics, physics and chemistry. The department also has a tradition of interdisciplinary research, in which we emphasize the importance of processes in geology. We wish to enhance further our current capabilities in environmental earth science, while maintaining the commitment to strong basic science.

The Department is very well equipped for isotopic studies, analytical work at all scales, applied geophysics, and sedimentology; it has access to NMR and ESR equipment, a reactor for NAA, a STEM facility, and to a well-equipped lab for X-ray diffraction, also to GIS facilities.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. McMaster University is committed to Employment Equity and encourages applications from all qualified candidates, including Aboriginal peoples, persons with disabilities, members of visible minorities and women. Applications, to include the names of three (3) referees, should be sent to: Dr. P.M. Clifford, Chair, Department of Geology, McMaster University, Hamilton, Ontario, L8S 4M1 (FAX: 905-522-3141), to arrive no later than 18 March 1994.

Oklahoma State University
Department of Microbiology and Molecular Genetics

Applications are invited to fill a position at the level of Assistant Professor. The successful candidate will lead an innovative research program investigating a fundamental biological problem using a lower eukaryotic model system. The area of research specialization remains open, however, experimental approaches utilizing molecular techniques are viewed as advantageous. Applicants must have a Ph.D., a commitment to teach at the graduate and undergraduate levels in the area of his/her specialization, and the capability to teach a departmental course offering in either medical mycology or medical parasitology.

Women and minorities are particularly encouraged to apply. Applicants should send curriculum vitae, a description of research interests, relevant pre-prints, and the names and addresses of three references. Review of applications will begin February 15, 1994 and will continue until a suitable candidate has been identified. Candidates are urged to make appropriate advance arrangements to ensure that referee letters are rapidly communicated upon the search committee's request.

Correspondence should be addressed to:
Dr. Robert Burnap
Chair, Search Committee
Department of Microbiology and Molecular Genetics
Oklahoma State University
Stillwater, OK 74078
Tel. (405) 744-7180
FAX (405) 744-6790

Oklahoma State University is an Affirmative Action/Equal Opportunity Employer

LECTURER/LABORATORY COORDINATOR BIOLOGY DEPARTMENT PENN STATE

The Biology Department seeks to fill two positions as part of a major reorganization of the biology core curriculum. This is an exceptional opportunity for two highly motivated biologists to make a significant impact on the delivery of basic biological education at a major Big Ten institution. These will be academic appointments with titles commensurate with credentials and interest.

Instructional Position: The successful candidate will have a Ph.D. in the Life Sciences, experience with large courses, and a major commitment to innovative instruction. This person will be responsible for lecturing in one section of a new course on Biodiversity and Paradigms in Biology, coordinating lecture topics among four new basic courses, integrating the laboratories for these courses, developing new laboratory exercises, working with other faculty in the training of Teaching Assistants, and overseeing general administration of four new courses.

Coordinating Position: The successful candidate will have a Master's degree in the Life Sciences and a major commitment to education. This person will work closely with the Lecturer in all aspects of the new courses, with emphasis on the daily logistic operations.

Send resume, transcripts, and three letters of recommendation to Dr. Linda Maxson, Head, Department of Biology, Box O, 208 Mueller Laboratory, University Park, PA 16802. Starting date will be July 1, 1994. Both positions are 12 month renewable appointments. Deadline for applications is February 11, 1994, or until a suitable candidate is found. Equal Opportunity/Affirmative Action Employer. Women and Minorities encouraged to apply.

ANNOUNCEMENT

CALL FOR RESEARCH PROPOSALS

The Johns Hopkins Center for Alternatives to Animal Testing (CAAT) is soliciting proposals for the 1995-96 grant period. These research proposals should provide fundamental knowledge needed to develop alternative methods to the use of whole animals for the safety/hazard evaluation, risk assessment and efficacy of commercial products.

We encourage the investigation of in vitro approaches to evaluating cellular and target organ toxicity. Some examples are: developing new cell culture systems, applying current testing methodology to human cells/cell lines, and designing new, mechanistic, state of the art methods that may utilize cultured cells, computer technology (e.g. structure activity relationships), or any other system applicable to toxicity/efficacy evaluation. At the present time, CAAT does not fund projects relating to carcinogenicity or mutagenicity.

To apply, submit a one-page preproposal abstract using CAAT Preproposa Abstract Form (8-5-50) to Ann Kerr, CAAT, 615 N. Wolfe Street, Baltimore, MD 21205, Tel. (410) 955-3343, Fax (410) 955-0258.

DEADLINE FOR SUBMISSION OF PREPROPOSAL ABSTRACTS IS MARCH 1, 1994.
The Numbers Speak for Themselves.

Look at the audited paid circulation of these two publications:

<table>
<thead>
<tr>
<th>Publication</th>
<th>Circulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>154,842</td>
</tr>
<tr>
<td>Nature</td>
<td>51,306</td>
</tr>
</tbody>
</table>

* December 1992 ABC Publisher's Statement
** December 1992 BPA Publisher's Statement

CURATOR OF VERTEBRATE ZOOLOGY

The University Museum and Department of Environmental, Population, and Organismic Biology invite applications for a joint, tenure-track, 11-month appointment as curator of vertebrate zoology. Preference will be given to candidates at the ASSISTANT PROFESSOR level, but candidates at all levels will be considered. Primary responsibilities will be to curate and develop existing collections of fishes, amphibians, and reptiles, to conduct an active research program on the systematic or evolutionary biology of one or more of these groups, and to teach evolutionary biology of one or more of these groups, and to teach undergraduate and graduate courses, including areas of specialty. Applicants must have a Ph.D. or equivalent degree and a record of published research; appropriate curatorial experience is preferred. Send curriculum vitae, representative publications, statements of teaching and research interests, and the names and addresses of four references to: Dr. James Hanken, University of Colorado Museum, Campus Box 218, Boulder, CO 80309-0218. Complete applications must be postmarked no later than 28 January 1994. Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

ANNOUNCEMENT

The John P. Robarts Research Institute

Nominations are Solicited for the

J. Allyn Taylor International Prize in Medicine

The Prize of $10,000 is awarded annually to one or more individuals who have made significant contributions in basic or clinical research in diseases of the brain, circulation or immune system.

The tenth annual J. Allyn Taylor International Prize in Medicine in 1994 will be awarded to a scientist(s) who have made outstanding contributions in THE GENETIC AND MOLECULAR BASIS OF DISEASE: IMMUNOLOGY OR NEUROSCIENCES.

Nominations, accompanied by a Curriculum Vitae and a letter of support of the nominee, should be sent prior to March 31, 1994 to: Dr. M.J. Poznansky, The J. Allyn Taylor International Prize in Medicine, The John P. Robarts Research Institute, P.O. Box 5015, 100 Perth Drive, London, Ontario, Canada, N6A 5K8.

UNIVERSITY OF WISCONSIN - PARKSIDE
Kenosha, WI
Tenure-Track Assistant Professor:
Biological Sciences

UW-Parkside Biological Sciences Department, a UW-System Center of Excellence, seeks a person desiring a balance of research and teaching starting in Fall, 1994:

Ph.D. with proven competence in applying the techniques of molecular biology in research. Post-doctoral and teaching experiences preferred. Teaching assignments in the undergraduate and graduate program may include upper division course(s) at the cell level (e.g. immunology, developmental biology, cell biology, virology, neurobiology etc.), laboratory modules on cell cultures, protein purification and immuno-techniques, and an introductory course for majors or non-majors.

UW-Parkside is a predominantly undergraduate institution with a diverse student body located in the Chicago-Milwaukee corridor. The 14-person department offers excellent undergraduate options/concentration in General Biology, Pre-Health and Molecular Biology and a M.S. in Applied Molecular Biology. All faculty have active research programs. Collaborations are encouraged.

Send a letter of interest, curriculum vitae, a brief summary of research goals, representative publications and 3 letters of reference to: Dr. Ed Wallen, Chairperson, Department of Biological Sciences, University of Wisconsin-Parkside, P.O. Box 2000, Kenosha, WI 53141. Telephone: (414) 595-2446/59552327. FAX: (414) 595-2056. Applications are due by February 15, 1994. The University of Wisconsin-Parkside is an Equal Opportunity/Affirmative Action Employer.

GENE THERAPY POST-DOCTORAL POSITIONS

ALBERT EINSTEIN DIABETES RESEARCH CENTER

HSV-derived vectors will be used to develop potential gene therapies for diabetes and its vascular complications. Scientists with experience in molecular biology or virology are encouraged to apply.

Send curriculum vitae with the names of three references or inquire to:

Howard Federoff, M.D., Ph.D., Department of Neurosciences, or Michael Brownlee, M.D., Diabetes Research Center
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, New York 10461
POSTDOCTORAL POSITION

Actin binding protein gene
Saint Francis Hospital & Medical Center

(A Teaching Hospital with University of Connecticut School of Medicine)

A postdoctoral position is available to study the regulation of an actin binding protein gene. Applicants should have a recent Ph.D. in biochemistry or molecular biology. Background in molecular cloning is desirable.

Please send a curriculum vitae, selected publications and names of three references to:

Samuel Varghese, Ph.D.,
Department of Research, Saint Francis Hospital & Medical Center, 114 Woodland Street, Hartford, CT 06105-1299.

SAINT FRANCIS Hospital and Medical Center

EEO/AA - M/F/D/V
Pre-Employment Drug Testing

Associate Senior Investigator, Pharmacokinetics

The specific duties include: (i) design, conduct, analyze and report on human pharmacokinetics and toxicokinetic studies for Phase I through Phase IV drug development in collaboration with clinical research scientists including population pharmacokinetic and pharmacodynamic analyses using appropriate statistical/pharmacokinetic software such as NONMEM; (ii) develop and coordinate comprehensive program of pharmacokinetic studies for worldwide regulatory submission; and (iii) prepare reports of clinical pharmacokinetic and toxicokinetic studies, present research findings to scientific bodies and publish clinical pharmacokinetic studies in scholarly professional journals.

Minimum requirements are a Ph.D. degree in Pharmacy or Pharmaceutics and either two (2) years of experience in the job offered or two (2) years of experience in Clinical Pharmacy which shall include two (2) years graduate research experience in clinical pharmacokinetics involving (i) the application of basic and advanced clinical pharmacokinetic theories including population pharmacokinetics and pharmacodynamics, (ii) the analyses of population pharmacokinetic data employing non-linear and mixed effects techniques and (iii) the use of pharmacokinetic/statistical software packages. Must have published in the area of advanced pharmacokinetic methods and population analysis techniques in scholarly professional journals. This experience may be acquired in conjunction with the required graduate education.

Salary of $55,000 with employee benefits; M-F, 8am-4pm. No fee charged. For prompt and confidential consideration, submit resume or C.V. to The Phila. Job Bank, 444 N. 3rd St. - 3rd Fl., Phila., PA 19123 and refer to Job Order Number 4542235.

NATIONAL SCIENCE FOUNDATION (NSF)

NSF’s Division of Integrative Biology and Neuroscience (IBN) and Division of Molecular and Cellular Biosciences (MCB) and the Division of Biological Instrumentation and Resources (BIR) are seeking qualified applicants to serve as Program Directors under the provisions of NSF’s Visiting Scientist Program. Since responsibilities include research proposal evaluation, budget development and scientific planning, broad knowledge and specific research accomplishment are key qualifications. The positions are expected to be available to participate in the proposal review process, and also begin in the summer or fall, 1994. The current, per annum, salary range is $56,627 to $88,255; qualification requirements include the Ph.D. or equivalent experience plus 6 or more years of research experience beyond the Ph.D. in IBN, there are openings in: (1) Developmental (one position); (2) Physiology and Behavior (one position); and (3) Neuroscience (four positions).

In MCB, there are openings in: (1) Cell Biology (one position); (2) Biochemistry/Molecular Structure and Function (three positions); and (3) Genetics (one position).

In BIR, there are openings in: (1) Instrumentation & Instrument Development (one position); and (2) Database Activities (one position).

Applicants should send resumes or SF-171, Application for Federal Employment, to: National Science Foundation, Staffing and Classification Branch, Room 315, 4201 Wilson Boulevard, Arlington, VA 22230. Attn: Catherine Handle. For further technical information call Dr. Thomas E. Brady, IBN (703) 306-1420; or, Dr. James H. Brown, MCB (703) 306-1440; or Dr. James H. Brown BIR (703) 306-1470. Hearing impaired individuals should call (202) 357-7492. No person, otherwise qualified, shall be discriminated against on the basis of race, color, religion, sex, national origin, age, or disability or otherwise be excluded from being hired at NSF.

TENURE-TRACK FACULTY POSITION AT CARB
COMPUTATIONAL BIOCHEMISTRY AND MODELING

The Center for Advanced Research in Biotechnology (CARB) is seeking outstanding candidates for a tenure-track faculty position in computational chemistry and molecular modeling applied to problems in macromolecular structure and function. Individuals with demonstrated ability for creative research and strong interests in the broad areas of molecular dynamics, molecular recognition and docking, macromolecular structure prediction, and theoretical approaches to drug design and protein engineering are invited to apply. We are especially seeking a scientist who will develop new computational approaches using advanced high-performance computing tools including scalable parallel computer architectures. The successful candidate will be expected to develop a strong, independent, externally-funded research program, and to interact with other CARB scientists involved in macromolecular crystallography, high-field NMR spectroscopy, molecular biology, physical biochemistry, computational chemistry, and protein folding, stability, modeling and engineering. CARB is a joint research center of the National Institute of Standards and Technology and the University of Maryland Biotechnology Institute dedicated to fundamental problems of macromolecular structure, function, and engineering. Interested candidates should send a curriculum vitae, three letters of reference, and a summary of research interests and plans to:

Faculty Search Committee
Center for Advanced Research and Biotechnology
9600 Gudecky Drive
Rockville, MD 20850

Review of applications will begin on February 15, 1994. CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply. Preference will be given to applicants who are U.S. citizens.
GEORGETOWN UNIVERSITY
CHAIR, DEPARTMENT OF NEUROSCIENCE

The MEDICAL CENTER is seeking an internationally known scientist to chair a new Department of Neuroscience and lead a federally funded program in cognitive and computational sciences. The ideal candidate should be a recognized neuroscientist capable of directing the program’s primary research areas of cognitive neuroscience (which include fields as diverse as molecular biology and in vivo electrophysiology) and biological neural networks.

Qualified applicants will have demonstrated experience in coordinating a diverse group of neuroscientists, as well as a track record in developing extramural research support. Review of applications will begin immediately. Applicants should send a letter of interest stating qualifications and accomplishments specific for this position, and a Curriculum Vitae with names of at least three references (telephone and fax numbers) to:

Robert Martuza, M.D.
(Chair, Neuroscience Search Committee)
Dept. of Neurosurgery, 1 PHC
GEORGETOWN UNIVERSITY HOSPITAL
3800 Reservoir Road, NW
Washington, DC 20007

An Equal Opportunity/Affirmative Action Employer.

The David Starr Jordan
Prize for Innovative Contributions to the Study of Evolution, Ecology, Population or Organismal Biology

In 1986, Cornell, Indiana and Stanford Universities established a joint endowment to fund a prize in honor of David Starr Jordan, a scientist, educator, and institution builder with important ties to each of these institutions. The prize is international in scope and presented approximately every three years to a young scientist (40 years of age or less) who is making novel, innovative contributions in one or more of the areas of Jordan’s interest: evolution, ecology, population and organismal biology.

The intent of this prize is to recognize young scientists who are making research contributions likely to redirect the principal focus of their fields. In addition to a cash award, the recipient will receive a commemorative medal and will attend an awards ceremony, visit each of the institutions and five scholarly presentations of her/his work. The selection of the prize winner will be made by a committee composed of representatives from each of the three institutions.

The third David Starr Jordan Award will carry a prize of $15,000 and will be announced in late 1994. Nomination forms are available from:

Dr. William L. Crepet
L.H. Bailey Hortorium, Cornell University
462 Mann Library
Ithaca, NY 14853
607/255-2131; FAX 607/255-7979

All nomination materials must be received prior to April 1, 1994.

Faculty Positions
Derald H. Ruttenberg Cancer Center

The Mount Sinai School of Medicine is undergoing a major expansion of its research programs in cancer. As part of this initiative, opportunities exist for tenure track academic positions. Areas of particular interest for individuals with records of research excellence include: oncogenes; tumor suppressor genes; cell cycle control; apoptosis and tumor metastasis. Send your CV, statement of research interests, goals and plans, and three letters of reference to: Stuart A. Aaronson, M.D., Derald H. Ruttenberg Cancer Center, Box 1130, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

The Mount Sinai Medical Center of New York

Recruitment Advertisers

SAVE 25%

Running your recruitment ad once may not be enough. Place the same ad again within the next eight issues and get 25% off your second insertion.

• Get more attention
• Get more value
• Get more résumés

Reach the global scientific community you need to maximize your recruitment efforts. Science does it bigger, better and at greater savings for you.

Call, write, or fax:
Science Classified Advertising
1333 H Street, N.W.
Washington, D.C. 20005
Phone: 202-326-6541/6555
Fax: 202-682-0816
Viral Vaccine Development

The Lederle-Praxis Biologicals Division of American Cyanamid Company has an exciting and challenging position available in Viral Vaccine Development for a Biochemist with experience in the development and manufacture of human vaccines.

As a key member of our Downstream Process Development team, we’ll look to you to carry out bench-scale investigations of protein and viral purifications, focusing on characterizing and improving purification processes for candidate vaccines. You will also be expected to identify innovative new processes and carry out independent projects of limited scope within the overall goals of a project. Results of such investigations may be presented in peer-reviewed publications.

To qualify, you must possess a Master’s Degree and 5-6 years’ experience or a PhD and 2 years’ post-doctoral experience in Biochemistry, Biology, Biophysics or a related field. A background in protein purification, chromatography, and protein characterization is also required along with familiarity with modern experimental protein characterization methods, excellent communication skills, and the ability to function effectively in a team environment. Knowledge of cGMPs is helpful.

We offer a state-of-the-art facility in Rockland County, a competitive salary and excellent benefits. For consideration, please forward your resume with salary history to: Lederle-Praxis Biologicals, Dept. KM8806/34A/123, Pearl River, NY 10965. Equal Opportunity Employer M/F/D/V. Principals only, please.

---

Tenure-Track Faculty Positions in Biochemistry, Molecular Biology and Cancer Biology

Faculty members at the rank of ASSISTANT, ASSOCIATE OR FULL PROFESSOR will hold academic appointments in the Department of Biochemistry and Molecular Biology and membership in the Center for Excellence in Cancer Research, Treatment and Education. The Department, other basic science departments, and the Center are undergoing a major expansion in both faculty size and research space. A ten-story biomedical research institute is currently under construction adjacent to the medical school. The Department and Center will assist new faculty appointees in developing a vigorous independent research program with technical researchers and start-up funds. Applicants should have a Ph.D. or M.D. degree, postdoctoral research experience, and a commitment to excellence in both teaching and research. Faculty members are expected to develop funded research programs and teach both medical and graduate students. Applications are especially encouraged in areas of signal transduction, developmental biology, receptors, oncogenes, cell cycle regulation and related areas. Send c.v., a brief statement of current and future research interests and the names of three referees to: Robert E. Rhodes, Ph.D., Professor and Head, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1501 Kings Highway, Shreveport, LA 71130-3932. LSUMC is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, DIVISION OF PHYSICS NATIONAL SCIENCE FOUNDATION Arlington, VA 22230

NSF’s Directorate for Mathematical and Physical Sciences (MPS) seeks qualified candidates for the position of Director, Division of Physics. Incumbent provides overall direction and management to NSF program activities supporting research and education endeavors in physics, interacts with programs throughout NSF with related activities, and works as an integral part of the MPS management team.

Appointment to this Senior Executive Service position may be on a career or 2-to-3-year limited term basis, with a $92,900 to $107,300 salary range. Alternatively, selectedee may be assigned under Intergovernmental Personnel Act (IPA) provisions, retaining current salary and benefits. Applicants must have a Ph.D. or professional experience in physics or closely related field; substantial research experience and strong evidence of scholarship in physics or recognized leadership in research administration; and demonstrated supervisory skills.

Applications should contact George Pittmon on 703-306-1187 (hearing impaired individuals may call TDD 703-306-0980) to request announcement EP-94-4 (SES career), EP 94-15 (SES limited term) and/or EP 94-25 (IPA) for complete qualification requirements and application procedures. Applications should be mailed to George Pittmon, National Science Foundation, Executive Personnel and Development Branch, Room 315, 4201 Wilson Blvd., Arlington, VA 22230. Applications must be received by February 11, 1994.

NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

---

NATIONAL INSTITUTES OF HEALTH NATIONAL CENTER FOR HUMAN GENOME RESEARCH

Francis S. Collins, M.D., Director

The new Intramural program of the National Center for Human Genome Research (NCHGR), part of the National Institutes of Health (NIH), located in Bethesda, Maryland, is now in operation. Senior scientists with a unique range of expertise and interests have been recruited to focus on identification, diagnosis, and treatment of the genetic elements of human disease.

Research opportunities for technicians with interests in molecular biology/molecular genetics are immediately available in:

- Cancer genetics
- Developmental genetics
- Fluorescence in situ hybridization
- Gene targeting and murine models
- Gene transfer and expression studies
- Genetic disorders of the immune system
- Human gene mapping
- Intracellular signalling
- Molecular biology of chromosomal aberration
- Molecular analysis of human genetic disease
- Positional cloning
- Quantitative and statistical genetics
- Stem cell biology

Competitive salary and benefit packages are available. Please forward curriculum vitae and three references to:

Jeffrey Trent, Ph.D.,
Director Intramural Research Program

C/O Ms. Patricia Stewart
NIH/NCHGR
Building 49, Room 4A06
9000 Rockville Pike
Bethesda, MD 20892

NIH is an Equal Opportunity Employer.
FACULTY POSITION IN MARINE BIOLOGY

ASSISTANT/ASSOCIATE PROFESSOR of Marine Biology to develop an undergraduate marine biology program at a small, state-supported, liberal arts university. The successful candidate will be expected to teach up to nine semester hours per year, supervise laboratories, and coordinate at least one undergraduate course in physiology, marine mammalogy, oceanography and other biology courses and to develop a viable undergraduate program in the area of marine biology. A Ph.D. in marine biology or related field is required. Commitment to quality teaching at the undergraduate level is essential. Experience in teaching biology at the college or university level is preferred. This is a 9-month, tenure-track appointment. Submit a letter of application, curriculum vitae, names of three references and unofficial transcripts in the Wilmington area of marine biology. A Ph.D. in marine biology or related field is required. Commitment to quality teaching at the undergraduate level is essential. Experience in teaching biology at the college or university level is preferred. This is a 9-month, tenure-track appointment. Submit a letter of application, curriculum vitae, names of three references and unofficial transcripts in the Wilmington area of marine biology.

COMMUNITY ECOLOGIST—The Institute of Ecology at the University of Georgia invites applications for a tenure-track, 9-month ASSISTANT PROFESSOR position, starting September 1994. In addition to a doctoral degree in ecology, the candidate should have strong teaching experience and a demonstrable interest in interdisciplinary education. The successful candidate will be expected to develop and teach new courses in environmental biology, as well as to contribute to the existing graduate educational programs in ecology and environmental biology. This is an academic year position, with an appointment period from September 1 to May 31. This is a tenure-track position. Advertisements will be sent by January 7, 1995. Applications must be submitted by January 15, 1995. Please specify your area(s) of interest in the cover letter. Submit a letter of application, curriculum vitae, list of publications, statement of teaching and research interests, and names and addresses of references to: Dr. Howard D. Haggard, Institute of Ecology, University of Georgia, Athens, GA 30602-2602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

FISH BIOLOGIST

DALHOUSIE UNIVERSITY (subject to budget approval) seeks probationary tenured-track ASSISTANT PROFESSOR starting September 1, 1994. In accordance with the Canadian Immigration requirements this advertisement is intended only for Canadian and permanent residents. DALHOUSIE UNIVERSITY is an Employment Equity/Affirmative Action Employer. We encourage and welcome applications from visible minorities and persons with disabilities. Send curriculum vitae, summary of research/teaching interests and names and addresses of three referees by January 15, 1994 to: Dr. M. Williamson, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4J1.

TENURE-TRACK FACULTY POSITION

The Department of Obstetrics and Gynecology at New York University Medical Center, New York, New York is actively seeking a basic scientist at the ASSISTANT PROFESSOR level, or an appointee. Candidates with interests in basic science or translational research in obstetric and gynecological areas of interest will be considered. Candidates are expected to have a strong commitment to excellence in teaching and to develop a research program leading to salary support. Applicants should submit a letter of application, curriculum vitae, list of publications, and names and addresses of at least three references. Applications must be received by January 15, 1995. New York University is an Equal Opportunity/Affirmative Action Employer.

ANTICIPATED—ASSISTANT PROFESSOR/INSTRUCTOR/ASSOCIATE RESEARCH PROFESSOR (two year appointments)

The Pennington Biomedical Research Center, a research facility of Louisiana State University, invites applications for a research position in developmental biology and transgenic technology. Rank and salary dependent upon qualifications. The successful candidate will work in a new transgenic laboratory and collaborate with faculty and research staff in the development of gene transfer/therapeutic approaches to nutritionally related health problems. Minimum qualifications are a M.S. (Research Associate); Ph.D. (Instructor); Ph.D. with postdoctoral experience (Assistant Professor) in molecular biology and experience in physiology, embryology, developmental biology or a related field. Applications, including curriculum vitae, list of publications, summary of research, and names and addresses of references should be sent by January 15, 1994, to: Dr. David York, c/o Evelyn Bennett, Assistant Director, HRM Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808. LSU/BPRC is an Equal Opportunity/Affirmative Action Employer.

PLANT ECOLOGIST

The Department of Botany at the University of Vermont invites applications for a tenure-track appointment at ASSISTANT PROFESSOR. The successful candidate will be expected to develop a competitive research program in the ecology or evolutionary ecology of terrestrial plant communities, and to actively participate in teaching undergraduate- and graduate-level courses. Applicants with experience in the study of: 1) terrestrial and aquatic plants, 2) plant population and community ecology, 3) plant physiology, 4) plant reproduction, and 5) plant physiological ecology, and the University of Vermont is an Equal Opportunity/Affirmative Action Employer. Strongly encouraged to apply. Applications must be postmarked no later than January 31, 1994. No fax applications will be accepted. The University of Vermont is an Equal Opportunity/Affirmative Action Employer.

VISITING ASSISTANT PROFESSOR, PHYSIOLOGICAL ECOLOGY. The Department of Zoology, Connecticut College, invites applications for a 2-year, non-tenure-track appointment (replacement for an ad- minister's leave). Responsibilities include Ecology, Comparative Physiology, Invertebrate Zoology and involvement in team-taught General Biology and Zoology courses. Visiting Assistant Professors teach courses per year, with lecture and laboratory sections counting as separate courses. A Ph.D. is required. Connecticut College is an affirmative-action/equal opportunity institution with a strong tradition of original research at the undergraduate level. Send curriculum vitae, reprints, a statement of teaching and research interests, and three letters of recommendation by January 15, 1994 to: Dr. William F. Bloch, Chair, Department of Zoology, Box 5406, Connecticut College, 270 Mohegan Avenue, New London, CT 06320-3196. Review of applications will begin January 17, 1994. Connecticut College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

ECOLOGIST: One-year position at the ASSISTANT PROFESSOR level. Responsibilities include teaching an introductory biology course, teaching advanced course in some area of ecology, and supervision of student research in Biology and Environmental Studies. Mount Holyoke College is committed to fostering cultural diversity and encourages applications from women, faculty, and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply. Send curriculum vitae, a statement of teaching interests, and research interests, including a list of relevant courses and, if possible, a sample of recent teaching vitae, by January 21, 1994. Faculty to: Dr. Susan M. Smith, Department of Biological Sciences, Mt. Holyoke College, South Hadley, MA 01075. FAX: 413-588-3237; Email:smiths@m.holyoke.edu

University of Northern Colorado (UNC) 3 Positions, Biological Sciences

Three tenure-track positions: Gross Vertebrate Anatomy/Histology (#20202); Vertebrate Zoology/Physiology (#20203); Mammalian Physiology/Pharmacology (#20204). All tenure-track ASSISTANT PROFESSORS. Start August 1994. Teaching experience in human anatomy, physiology, sexuality or geontology desirable. Excellent teaching in research and an active research program are expected; doctorate required. Individuals may apply for more than one position if they provide a complete application packet for each. Each packet should consist of curriculum vitae, two or three recommendation letters at least one addressing teaching ability. Due February 15, 1994. Faculty to: Search Committee, Department of Biological Sciences, University of Northern Colorado, Greeley, CO 80639. FAX: (303)384-1085; Telephone: (303)384-2921. UNC is an Equal Opportunity/Affirmative Action Employer.

RESEARCH MANAGER

The Jewish Hospital Heart & Lung Institute in Louisville, Kentucky, is seeking a Research Manager to provide direction, guidance, and management to their research activities. Jewish Hospital is a 440-bed, tertiary hospital serving as the leading Cardiopulmonary Center in the State of Kentucky and Southern Indiana. A 14-story free-standing Heart & Lung Center is under construction with planned occupancy in late 1994. In 1994, Jewish Hospital employed 10 cardiovascular surgeons and 11 pulmonologists performed over 7,587 invasive procedures, including 1581 Open Hearts. Currently, the Heart & Lung Institute has a Scientific Committee of 12 M.D.'s and Ph.D.'s overseeing a variety of ongoing projects and clinical trials. These include ventricular assist devices, cardiomyoplasty, coronary artery angioplasty, re- stenosis trials, atrioventricular valve replacement trials and CAVET. Jewish Hospital has a close affiliation with the University of Louisville and a dual appointment will be encouraged. The successful candidate will be expected to develop and maintain a high-quality externally funded research program. Please send curriculum vitae and a brief description of research interests to: Dr. Robert M. Brown, Jewish Hospital Heart & Lung Institute, 217 East Chestnut Street, Louisville, KY 40202. Phone: (502)-895-2200. Position is an Equal Employment Opportunity/Affirmative Action Employer. A Drug-free Workplace.
POSITION AVAILABLE
ASSISTANT PROFESSOR
DEPARTMENT OF LABORATORY MEDICINE & PATHOLOGY
UNIVERSITY OF MINNESOTA

A full-time tenure track academic position is available approximately May 1, 1994 at the rank of assistant professor in the Division of Clinical Virology of the Department of Laboratory Medicine and Pathology at the University of Minnesota. Minimum requirements are M.D., eligible for licensure in the state of Minnesota, postgraduate training in internal medicine or pathology, board certified or eligible in infectious diseases, demonstrated research productivity with acceptance of publications in peer-reviewed journals and at least four years teaching experience. Teaching duties include didactic teaching/training of residents, medical students, graduate students, fellows and medical technologists. Candidate selected will be expected to initiate an independent research program.

Other duties include serving as Assistant Medical Director of the Virology Diagnostic Laboratory and the HIV Detection and Research Laboratory with responsibilities for laboratory-based research and diagnostics as well as patient management. The University of Minnesota is one of 14 NIH sponsored institutions having a AIDS Clinical Trials Unit (ACTU) with a core research HIV laboratory. Candidates must be familiar with the latest virology testing methods including quantitative virology and PCR. At least four years experience in supervising a virology diagnostic laboratory conducting antiviral clinical trials is required. A major focus of the Division of Clinical Virology has been and continues to be development of antiviral drugs, particularly for herpes viruses and human immunodeficiency virus (HIV).

Deadline for receipt of applications is March 31, 1994. Applicants please send curriculum vitae, names of three references and a brief synopsis of recent activities to:

Clinical Virology Search Committee
c/o Marilyn Green
Department of Laboratory Medicine and Pathology
Box 198 UMC, 410 Delaware St SE
Minneapolis, MN 55455

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

FRENCH “ACADEMIE DES SCIENCES” PROFESSORSHIPS

In order to foster international cooperation between academic and industrial research, the French Académie des Sciences, the Centre National de la Recherche Scientifique and Elf Aquitaine will open a limited number of one-year professorships in France for the 94-95 academic year.

These openings are reserved for research professionals, typically at the Associate to Full Professor level, and may be held in conjunction with a sabbatical leave. They include generous benefits, such as housing arrangements and travel expenses, depending upon the candidate’s experience.

The scientific domains involved cover Elf Aquitaine’s activities in oil and chemical research:
— Earth Sciences, with an emphasis on surface seismology, sedimentology, organic and mineral geochemistry and the physics of oil-related fluids, including interactions with rocks;
— Atmospheric Sciences, in relation to the “Global Warming Process”, i.e. physicochemistry of the atmosphere, or modeling of such phenomena;
— Chemical Sciences, with an emphasis on polymers, halogen and thio-chemistry, catalysis, and process engineering research.

Prearranged agreements with French academic laboratories are eligible for these professorships, and they will be appreciated although not mandatory. There are no citizenship restrictions. Mastery of French is not required, although some familiarity with French culture would be helpful.

Additional information can be obtained from the following contacts:
— For North America-based candidates: J. BOUILLET, Vice President Research & Development Elf Aquitaine, Inc. 1899 L Street, N.W., Suite 500 Washington, D.C. 20036
— For other candidates: C. JABLON, Chief Scientist Elf Aquitaine, DRTE Tour Elf, Cedex 5 59278 Paris-Le-Défense, FRANCE

Formal applications should include a detailed resumé, a description of the research project and any other relevant information in order to select the most qualified candidates. They should be sent to the above addresses before February 11, 1994. They shall be processed in confidence and the professorships are scheduled for announcement in May 1994.

COMBINING TECHNOLOGIES TO TREAT LOCAL DISEASES

By combining our proprietary polymer and delivery device technology, we're creating products that prevent post-surgical adhesions, thrombosis and restenosis. With our innovative product pipeline and exciting healthcare technology, we're poised for the future—offering outstanding opportunities to continuously challenge you and help you reach your full potential.

MATERIALS AND PHARMACEUTICAL DEVELOPMENT

DRUG DELIVERY SENIOR SCIENTIST

Develop processes for the controlled release of low and high molecular weight drugs; generate novel fabrication and configuration of drug delivery matrices; conduct in vitro and in vivo evaluations of degradation and drug release kinetics. Ph.D in Life Sciences, Chemical Engineering or Pharmaceutics required with a minimum of 5 years' industrial experience developing and evaluating novel polymer drug delivery systems. Experience working with small molecules, proteins, monoclonals etc. for the controlled release of these drugs in a stable and reproducible manner. Experience working with pharmacology, clinical, regulatory, and QA/QC groups a must.

FORMULATIONS SENIOR SCIENTIST/GROUP LEADER

Develop stable formulations for biodegradable polymers and conduct in vitro and in vivo evaluations of polymer stability and drug-polymer interactions. Ph.D in Pharmaceutics required with a minimum of 5 years' industrial experience developing and evaluating therapeutics. Experience with small molecules, proteins, monoclonals a plus. Must have experience working with pharmacology, clinical, regulatory, and QA/QC groups. Working knowledge in design and formulation of parenteral products and/or drug delivery systems a must.

We offer a competitive compensation and benefit package and equity participation, as well as a highly creative work environment. Please send your resume to Human Resources, FOCAL, INC., One Kendall Square, Building 600, Cambridge, MA 02139. No phone calls please. We’re continuously striving for diversity through equal opportunity employment.

Focal
INTERVENTIONAL THERAPEUTICS
Molecular and Cell Biology Assistant Professor

Juniata College, a selective independent liberal arts college with traditional strengths in the liberal arts and sciences, invites applications for a Part-time position in Biology (begin Fall 1994). Experience in undergraduate instruction, strong interest in teaching and academic advising, commitment to diversity, and evidence of the role of the natural sciences in a liberal arts curriculum and Ph.D. required. Send letter of application, current curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: Dr. Karen Wiley Sandler, Vice President and Dean of Academic Affairs, Juniata College, Huntingdon, PA 16652. Review of applications has begun and will continue until position is filled. Juniata College is committed to equality of opportunity for all without regard to race, sex, color, national origin, age, handicap, marital status, or sexual orientation.

Cell Biological and Molecular Immunology

The University of Massachusetts Medical School seeks M.D. or Ph.D. to complement the internationally recognized strength in Pediatric Oncology and Bone Marrow Transplantation. Strong research program with molecular biologists at the Medical College of Wisconsin and the Blood Center of Southeast Wisconsin is encouraged. Program growth expected with additional new faculty position and additional rank commensurate with experience. Competitive salary and outstanding benefit package. Excellent lab space in a dedicated research building and access to the modern 220-bed Children's Hospital of Wisconsin. Send curriculum vitae to: Robert M. Kligeman, M.D., Professor and Chair, Department of Pediatrics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226, Equal Opportunity/Affirmative Action Employer.

Chair, Department of Molecular Immunology

Applications and nominations are being accepted for the Chair of the Department of Molecular Immunology. The research and academic department consists of approximately 50 members and students. The successful candidate will be responsible for directing the research activities of the department and for teaching, advising, and evaluating the research programs of members of the department. This position requires a Ph.D. in Immunology or a related field with postdoctoral training in molecular immunology. The successful candidate will be expected to develop an independent research program that includes relevant areas of biological, chemical, and medical research. Personal and professional judgment. The Department of Immunology is located on the School of Medicine campus in the Center for Biomedical Research. Applications should be submitted by January 15, 1994. For more information, contact: Vice President for Research, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

Director of Molecular Oncology Research Program

The Department of Pediatrics and the Midwest Children's Cancer Center at the Medical College of Wisconsin seeks M.D. or Ph.D. to complement the internationally recognized strength in Pediatric Oncology and Bone Marrow Transplantation. Strong research program with molecular biologists at the Medical College of Wisconsin and the Blood Center of Southeast Wisconsin is encouraged. Program growth expected with additional new faculty position and additional rank commensurate with experience. Competitive salary and outstanding benefit package. Excellent lab space in a dedicated research building and access to the modern 220-bed Children's Hospital of Wisconsin. Send curriculum vitae to: Robert M. Kligeman, M.D., Professor and Chair, Department of Pediatrics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226, Equal Opportunity/Affirmative Action Employer.
**TOXICOLOGY**

Battelle Pacific Northwest Laboratories (PNL) is an international leader in the practical application of technology. Battelle PNL is dedicated to both basic and applied research to find ways to preserve our environment and keep America technologically competitive. Our LIFE SCIENCES CENTER has an immediate opening for:

**TOXICOLOGY DEPARTMENT MANAGER**

This position requires a DVM with a Ph.D. in anatomic pathology, clinical pathology, or toxicology and/or board certification in one of these disciplines. Previous experience in managing a multidisciplinary research organization conducting studies under FDA's Good Laboratory Practices (GLP) regulations is essential. Must have an outstanding research record in toxicology, pathology, or related field. The ideal candidate will have experience in inhalation toxicology, service as Study Director on GLP-regulated projects, and laboratory experience in cell proliferation and molecular toxicology.

Will provide technical leadership for a technical and professional staff of over 100 organized into seven groups: Pathology, Clinical Pathology, Analytical Chemistry, Inhalation Toxicology, Aerosol & Inhalation Research, Bioengineering & Exposure, and Animal Resources. Will be responsible for development of new programs and administrative leadership of the department.

Battelle PNL, one of the nine U.S. Department of Energy multiprogram research laboratories is located in Southeast Washington state and offers the advantages of a pleasant life style and the extraordinary environment of the Pacific Northwest.

Interested candidates should send a resume and salary history to: Battelle Recruiting Center, Attn: Dept. 941018CSP, P.O. Box 999, Richland, WA 99332. Principals Only. EOE.

...Putting Technology To Work

---

**IMMUNOLOGISTS**

The University of Washington seeks superbly qualified applicants for a tenure-track appointment in the Department of Immunology. Applicants must hold Ph.D. or M.D. degrees and have demonstrated the ability to establish an independent research program in immunobiology. Although the Department is seeking an assistant professor, appointment may be made at the rank of associate professor or full professor, depending on the individual's qualifications. The Department of Immunology offers excellent new laboratory space, flow cytometry, biopolymer synthesis, and transgenic animal facilities.

Send curriculum vitae, a brief description of proposed research, and three letters of recommendation (by March 1, 1994) to:

R.M. Perlmutter, M.D., Ph.D.
Chairman
Department of Immunology, SL-05
University of Washington
Seattle, WA 98195

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

---

**FISHERIES ECOLOGY**

The School of Natural Resources and Environment, University of Michigan, in cooperation with the Michigan Department of Natural Resources, invites applications for a 12-month faculty position at the level of Assistant Research Scientist, to be filled by Spring 1994. Funding for the position is committed for a five-year period; the position is renewable on a non-tenure track.

**Primary Responsibilities:**
- To design and conduct research on anadromous and potamodromous fishes and fisheries in the Great Lakes region.
- To develop and teach a graduate course in fisheries at the School of Natural Resources and Environment, and participate in advising of graduate students.

This position will be located at the Institute of Fisheries Research, a cooperative program between the Michigan Department of Natural Resources and the university that was established in 1930. Applicants must possess a Ph.D. with specialization in fisheries ecology, including substantial knowledge of life histories of anadromous and potamodromous fishes and the ability to apply stock assessment techniques to fisheries. A strong quantitative background is required, as well as an ability to work effectively with state, federal, and private organizations. Submit a letter describing research interests and qualifications, resume, college transcripts, copies of publications, and three letters of recommendation by February 1, 1994 to Dr. James S. Diana, School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI 48109-1115, phone 313-763-5834. The University of Michigan is an Equal Opportunity and Affirmative Action Employer.
POSITIONS OPEN

ANTICIPATED—INSTRUCTOR/POSTDOCTORAL RESEARCHER

The Pennington Biomedical Research Center, a research facility of Louisiana State University, announces a position available immediately for an individual specializing in key enzymes involved in arachidonic acid metabolism. Doctoral degree in biological sciences is required. Experience in recombinant DNA technology and protein purification is preferred. Rank and salary will be dependent on qualifications. Send curriculum vitae by January 4, 1994, to: Dr. Daniel Hwang, c/o Bennett, Assistant Director, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808. LSU/PRC is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION—The Jonsson Comprehensive Cancer Center at UCLA is committed to establishing a program in signal transduction. We seek candidates for a junior-level tenure-track or mid-level tenure position. Candidates should have an interest in establishing a research program emphasizing signal transduction in eukaryotic cells and have demonstrated expertise in this area. A primary appointment will be made in an appropriate basic science or clinical department of the UCLA School of Medicine. Salary and start dates are negotiable in consultation with the candidate, a statement of research aims, and three letters of reference to: Marsha Emmer Addis, Deputy Director, Jonsson Comprehensive Cancer Center, 10-247 Louis, Sciences Building, Los Angeles, CA 90024-1781. UCLA is an Affirmative Action/Equal Opportunity Employer.

PLANT ECOLGY FACULTY POSITION

Central College: Tenure-track faculty position in plant ecology beginning September 1, 1994. Responsibilities include teaching undergraduate courses in Ecology, Evolution, Biostatistics, Field Botany and introductory botany. Minimum qualifications include research experience and participating in departmental seminars. Ph.D. required; ABD acceptable. Write for position description to: W. H. Halper, Central College, Central Pella, IA 50219. Central College is an Equal Opportunity Affirmative Action Employer. We actively seek and encourage applications from persons of color and female candidates. Review of applications will begin January 10, 1994, and continue until position is filled.

POSTDOCTORAL POSITION

Available February 1994 for studies of photosynthetic O2 evolution, light absorption and photosynthetic electron transport processes in PSII using biochemical, spectroscopic and molecular biological approaches. Structural studies of an ancillary photosynthetic protein complex for 1 year duration is possible. Salary is highly competitive. Send curriculum vitae, statement of research interests, and names of 3 references, with telephone numbers to: Dr. Michael Seiber, Department of Biochemistry, The University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7978. An Equal Opportunity Affirmative Action Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL Position. Department of Neurosciences, Cleveland Clinic Foundation. Postdoctoral fellow will join ongoing NIH-funded studies investigating the molecular and cellular basis of maternal-fetal-placental dysmyelinating diseases. Experience in cellular and molecular biological techniques required. Send curriculum vitae, names of three references, and statement of research interests to: Bruce D. Trapp, Ph.D., Chairman, Department of Neurosciences, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Postdoctoral position available in Molecular Virology. RNA viruses (including poliovirus, mengovirus, yellow fever virus) are being genetically modified to express fragments of proteins derived from other pathogenic agents (HIV, HBV, HSV-1) and/or modified to express agent-specific viral proteins. Send curriculum vitae, research interests (one page), and three references to: Dr. Raúl Andino; The Gladstone Institute of Virology; UCSF; P.O. Box 419100; San Francisco, CA 94141-9100. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN Molecular and Developmental Biology Muscle Biology to study the regulation of contractile protein gene expression during cardiac and skeletal myogenesis. Tissue culture and transgenic (overexpression and "knockout") technologies are employed. Experience in molecular biology and/or development preferred. Send curriculum vitae and names with addresses and telephone numbers to: Dr. Dave Wieszorek, Department of Molecular Genetics, Biochemistry, and Immunology, University of Cincinnati Medical Center, 231 Bethesda Avenue, Cincinnati, OH 45267-0524; Telephone: 513-558-0058; FAX: 513-558-8474. POSTDOCTORAL POSITIONS

The Dana-Farber Cancer Institute and Harvard Medical School are filling postdoctoral positions at the postdoctoral level to study the development of T-lymphocytes at the cellular and molecular level. Training in cellular immunology and molecular immunology is desirable. Send curriculum vitae and three references to: Laboratory of Immunopathology, Dana-Farber Cancer Institute, 44 Binney Street, D730 Boston, MA 02115 617-632-4630; FAX: POSTDOCTORAL POSITION

For studies of the mechanism(s) by which thyroid hormone and medium-chain fatty acids regulate transactivation or repression of thyroid hormone target genes in cultured thyroid cells. This is a 1 year position with the possibility of renewal. Send curriculum vitae and the names and addresses of three references to: Dr. Alan G. Goodridge, Department of Biochemistry, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity and Affirmative Action Employer. We encourage applications from women and minority groups.

POSTDOCTORAL POSITION IN Molecular and Cell Regulatory Endocrinology

Center for Studies in Reproduction University of Maryland

Available immediately to Ph.D. to study molecular biologicstudies in this area. Experience in recombinant DNA techiques is desirable. Send curriculum vitae and the names of three references to Dr. James L. Voge, Department of Physiology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160; FAX: (913) 588-7430. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

SNIER POSTDOCTORAL POSITION (JUNIOR RESEARCH FACULTY POSITION) available immediately for HIV drug discovery project. Molecular biologist is required. Send curriculum vitae to: Beulah K. Hahn, M.D., University of Alabama at Birmingham, 701 South 19th Avenue South, Room 402, Birmingham, AL 35294. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION, MOLECULAR RETROViroLOGY. Available immediately to participate in ongoing research project on simian immunodeficency virus (SIV) and human immunodeficiency virus (HIV). Current project is to use virus-host interactions including molecular mechanisms of virus cell tropism and neuropathogenesis. Applicants should have prior experience in recombinant DNA technology and/or virology. Interested individuals are encouraged to send a letter of research interest, curriculum vitae, and three references to: Dr. Toshiaki Kodama, Division of Primary Medicine, Oregon Health Sciences University, P.O. Box 1055 Portland, OR 97206. Telephone: (503) 228-5284; FAX: (503) 228-6566. The OHSU/PRC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS CHANNELS AND PORES

Worcester Foundation for Experimental Biology

Postdoctoral positions are available for interdisciplinary mechanistic studies of ion channel and pore proteins. Projects include investigations of prokaryotic pores for applications in materials science, biosensors and drug delivery [J. Biol. Chem. 267, 27172 (1992); 268, 5285 (1993)]. The mechanism of action of ethanol and general anesthetics on cloned eukaryotic channels [FEBS Lett. 305, 27 (1992); Neuron. Lett. 152, 13 (1993)]; the molecular mechanism of channel modulation by protein kinase C, lectin, and other target molecules (Neuron 8, 587 (1992); PNAS 89, 1641 (1992)).

Call Hagan Bayle at (508) 842-9146 for details or send curriculum vitae and the names of references to: Hagan Bayle, c/o Human Resources, Worcester Foundation, 222 Maple Avenue, Shrewsbury, MA 01545. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL—MOLECULAR VIROLOGY

Postdoctoral position available to work on the molecular virology of HSV-1 latency and pathogenesis. Experience in either molecular biology, molecular genetics, molecular virology (especially herpes virology), or immunology (especially viral immunology) is highly desirable, but not essential. Funding for this position is guaranteed for at least 3 years at the highly competitive salary. Send curriculum vitae with telephone numbers of 3 references to: Dr. Steven L. Wechsler, Director, Virology Research Laboratories, Halper Building, Research Laboratories, The Dana-Farber Cancer Institute/UCLA School of Medicine Affiliate, 8700 Beverly Boulevard, Los Angeles, CA 90048-1869. FAX: (310) 657-0190. Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available to investigate the developmental regulation of lung fluid transport and gene transfer to the fetal/neonatal lung. The laboratory is using both molecular biological and physiological techniques to understand ion transport processes and their regulation in the developing lung. The approach involves studies of the developmental expression of both specific membrane ion channels and ion transporters expressed in the system and the expression of functional ion transporters in vivo and in cell culture models. There is also a major focus on gene transfer to the fetal/neonatal lung with particular emphasis on the recovery for cystic fibrosis. Gene transfer will also be used in evaluating the cellular mechanisms of fluid transport.

Curriculum vitae and application to: Dr. Thomas E. Caiazza, Department of Pediatrics, University of Iowa College of Medicine, Iowa City, IA 52242. Equal Opportunity/Equal Action Employer.

1932

SCIENCE • VOL. 262 • 17 DECEMBER 1993
POSTDOCTORAL FELLOWSHIP

The Comparative Medicine Division at St. Jude Children's Research Hospital, a premier research center for catastrophic diseases of childhood and biomedical research, offers a FELLOWSHIP IN BASIC SCIENCE RESEARCH.

The fellowship is open to postdoctoral candidates who wish to study the pathobiology and therapeutics of Cryptosporidiosis. Experience in protozoan pathobiology is advantageous.

The fellowship award is made for up to three years and is based on merit, recommendations, and promise of a productive career in biomedical research. Stipend available is highly competitive and based on qualifications.

Applicants should provide curriculum vitae, a brief description of their research interests and the names of three individuals who have agreed to serve as references.

Jerold E. Rehg, D.V.M.
Comparative Medicine Division
St. Jude Children's Research Hospital
P.O. Box 318
Memphis, TN 38101-0318
U.S.A.

All information to be received by 1 April 1994
An Equal Employment/Affirmative Action Employer

American Cyanamid Company has a longstanding and highly successful commitment to the discovery and development of new products through innovative scientific research. Our Immunology Group, in Princeton, NJ, seeks a creative and highly motivated individual to join a productive group utilizing modern techniques in immunology to manipulate the host's neuroendocrine system. An interest in integrating research projects with established programs with classical biologicals, recombinant cytokines and novel immunomodulators is desired.

POSTDOCTORAL SCIENTIST
T Cell Epitopes & Antigen Presentation

The successful candidate will establish an independent research program in T cell epitopes, and/or antigen presentation and processing. A Ph.D. in Immunology, Molecular Immunology or Protein Biochemistry, familiarity with cellular immunology, protein chemistry and molecular immunology, as well as a good publication record, and a documented ability to establish and implement independent scientific programs are required.

Individuals with a desire to broaden their career opportunities and be recognized for their diversity, scientific achievements, are encouraged to apply to: Employment Office, Dept., MD, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer.

MIT

Neurobiologist

Department of Brain and Cognitive Sciences

A tenure track faculty position is open for a Neurobiologist in molecular/cellular neurobiology. The position will require a strong research program and teaching. There is opportunity for a joint appointment in the Department of Biology, and for participation in interactive neuroscience programs at the Institute.

Applicants should submit a curriculum vitae and a summary of current and proposed research work, and should arrange to have three letters of recommendation sent to: Chair, Neurobiology Search Committee, Dept. of Brain and Cognitive Sciences, E25-406, MIT, Cambridge, MA 02139-4307. Applications will be considered as soon as they are completed and letters of recommendation have been received. Qualified women and minority candidates are especially encouraged to apply.

MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a non-smoking environment.

Research Scientist, Life Sciences

- Nunc, Inc., the world leader in specialized plastic labware for tissue culture, immunology, molecular biology and cryogenic storage has an opportunity for a Research Scientist in our manufacturing and research facility located 30 miles west of Chicago, in Naperville, Illinois.
- We are seeking an outstanding individual with a Ph.D. and at least two years research experience in biochemistry, molecular biology, chemistry or cell biology to participate in a multi-disciplinary approach to the investigation of molecular and cellular interactions with surface modified and specialty plastics. The successful candidate will have experience in tissue culture, immunology and recombinant DNA technology. Research projects encompass several areas of basic and applied science.
- This rewarding career opportunity combines the creative challenge of research with the dynamics of international business. You will interface with a dynamic group of manufacturing and marketing specialists, as well as scientists at Nunc, Inc. and at our sister company in Denmark. To further research efforts for product modification and new product development.
- We offer a comprehensive salary and benefit package. Please send your Curriculum Vitae to: Maria Dallanis, Manager, Human Resources, Nunc Inc., 2000 N. Aurora Rd. - Naperville, IL 60563-1796, equal opportunity employer m/f.

Yale University

Molecular Neurobiologist

The Department of Biology at Yale University is seeking a candidate for a tenured faculty position in the field of Molecular Biology of Sensory Systems. Applications are invited from individuals using molecular and/or genetic approaches to the study of sensory transduction and related processes. The successful applicant is expected to conduct a vigorous research program, to have a record of attracting grant support, and to have a proven capacity and interest in teaching at the undergraduate and graduate levels.

Please send curriculum vitae, description of research interests and the names and addresses of at least three references by February 15, 1994 to: Molecular Neurobiology Search Committee c/o Chair, Department of Biology, Yale University, Kline Biology Tower, Room 706 P.O. Box 208103 New Haven, CT 06520-8103

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially urged to apply.
Plant the Seeds of a Better Harvest

Ciba's Agricultural Biotechnology Research Unit, a pioneer in the area of plant molecular biology, seeks exceptional candidates to direct and conduct research with the goal of achieving disease control in crop plants.

To qualify, candidates must have a PhD (or equivalent) in plant molecular biology or related discipline, plus two years' postdoctoral experience. The individuals we seek must be highly motivated scientists, with a proven record of creative, independent research and a demonstrated ability to work as part of a multi-disciplinary team.

We offer a competitive salary and a generous benefits package. Please send c.v., transcripts and three letters of professional reference to: Manager, Human Resources, Dept. 9315, Ciba-Geigy Corporation, P.O. Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/DV.

Postdoctoral Position

Monsanto Corporate Research is interested in hiring an individual to collaborate with our Protein Biochemistry and Mass Spectrometry groups. The work will involve the development of a new methodology for high sensitivity protein sequencing and characterization using state-of-the-art Mass Spectrometry. This would include using capillary column LC/ES-MS and LC/MS/MS for sequencing of leptomolc quantities of peptides, developing new PTH amino acid derivatives and detection techniques, and expanding the role of laser desorption mass spectrometry in the analysis of trace biological materials. It is expected that the work will be published in peer reviewed scientific journals. The selected individual will be using a number of state-of-the-art mass spectrometers, liquid chromatographs and an ABI model 470A protein sequencer.

REQUIREMENTS: PhD in biology, protein chemistry, analytical chemistry or related field with strong interest in instrumental techniques. A background in HPLC is strongly preferred but mass spectrometry experience is not required. Salary will be in the $30's. This two year position begins in January, 1994 and is renewable on an annual basis.

Interested candidates should send their CV to: MONSANTO: Attn: Denise J. Cooper; KD-1; 800 North Lindbergh Blvd.; Mail Zone O2H; St. Louis, MO 63147. Monsanto is an Equal Opportunity Employer M/F/DV.

Research Scientist

Cambridge, MA

Nissan has established its new Cambridge Basic Research facility in Cambridge, MA. This facility is engaged in basic science studies of "the driving experience", especially factors that might improve driving skills and comfort as they relate to driving safety.

Problems of special interest include cognitive loads, attention and search, optical flow field assessment, navigation, early recognition of dangerous situations, and strategies for improving driver and pedestrian safety. The lab has a close working relationship with faculty at MIT and Harvard, and houses a variety of experimental facilities, including several Graphics workstations.

Temporary assignments will be for 2-3 years, renewable. Ph.D. required. Level of appointment is open. Nissan Research & Development, Inc. is the North American Development arm of Nissan Motor Co., Ltd. Please forward resume, representative reprints, and the names of 3 references to our Cambridge Basic Research laboratory by 1 March 1994:


[Image of Nissan advertisement]
Burroughs Wellcome Co. is known for creativity and innovation. Great things happen when a group of dedicated individuals work toward a goal. And with you on our team, greater things are yet to come. Discover the meaning of greatness at Burroughs Wellcome Co.

Research Scientist III/IV

This position will carry out research in the area of opioid-receptors. Position will be filled at the Research Scientist III or Research Scientist IV level. The level of responsibility to be assigned will depend on the individual applicant's background and experience level.

Research Scientist III: Candidates need a B.S. in the Biological Sciences plus 6 years of experience in in vivo pharmacology OR an M.S. in the Biological Sciences plus 4 years of experience in in vivo pharmacology OR a Ph.D. in the Biological Sciences OR Pharmacology OR an M.D.

Research Scientist IV: Candidates need a B.S. in the Biological Sciences plus 7 years of experience in in vivo pharmacology OR an M.S. in the Biological Sciences plus 5 years of experience in in vivo pharmacology OR a Ph.D. in the Biological Sciences OR Pharmacology plus 1 year of experience in in vivo pharmacology OR an M.D. plus 1 year of experience in Neuropharmacology and receptor biology.

Candidates selected for an interview at either level will take an on-site Scientific writing assessment. Other factors to be considered include experience in opioid and behavioral pharmacology.

At Burroughs Wellcome Co., you will enjoy a compensation and benefits package that is among the best in the pharmaceutical industry, along with the advantages of being part of an innovative pharmaceutical leader. Please send your resume, indicating REQ. #65309-29 in your cover letter, by January 18, 1994, to: Burroughs Wellcome Co., Human Resources—RD&M, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 315-8347.
POSTDOCTORAL POSITION
Emory University School of Medicine

NIH-funded position to study signal transduction and calcium regulation in smooth muscle using electrophysiological and biochemical techniques. Candidates having experience in these techniques are strongly encouraged to apply.

Send curriculum vitae and names of three references to: Dr. Michael Crocker, Department of Physiology, 1468 Pierce Drive, Emory University, Atlanta, GA 30322. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available
After January 1, 1994

The Lyme disease research group at the Centers for Disease Control and Prevention, Fort Collins, Colorado, has a postdoctoral research position available for the study of the immune response to B. burgdorferi in a model using transgenic mice. The position involves transgenic approaches in the study of the role of cytokines and cell adhesion molecules in immune function and infectious disease. The position is available after January 1, 1994.

Send curriculum vitae and the names and addresses of three references to: Dr. Michael Crocker, Department of Physiology, 1468 Pierce Drive, Emory University, Atlanta, GA 30322. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Boston University College of Engineering
Department of Biomedical Engineering

POSTDOCTORAL SCIENTIST, MOLECULAR BIOPHYSICS

The Laboratory for Biomolecular Engineering seeks an outstanding researcher with a creative and leading role in our computational programs in drug and vaccine design. The laboratory is part of a group of approximately 60 researchers in the Department of Biomedical Engineering, and is housed in new and well-equipped facilities. Minimal supervision is required.

Candidates should send curriculum vitae and the names and addresses of three references to: Charles DeLisi, College of Engineering, Boston University, 44 Cummington Street, Boston, MA 02215.

POSTDOCTORAL FELLOWSHIPS
in Signal Transduction, Cell Biology, and Molecular Virology

Wakamatsu Institute, Rutgers University

A postdoctoral research position is available immediately to study, at the biochemical and molecular levels, signal transduction during induction of disease resistance and synthesis of pathogenesis-related proteins following viral infection. The research, under the direction of R. J. Roper, will include the use of site-directed mutagenesis and expression of recombinant P450 in heterologous systems as a necessary prerequisite. Salary begins at $30,000. Applicants should hold a Ph.D. degree in biochemistry or molecular biology, or a related field and should submit curriculum vitae and three letters of recommendation to: Dr. Allan E. Rettie, Department of Molecular Biology, 500 Hoes Lane, Princeton, NJ 08540. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW
WASHINGTO N UNIVERSITY
SCHOOL OF MEDICINE

Position available for two years to study the role of extracellular matrix in disease resistance. The project focuses on effects of extracellular matrix on membrane and blood flow. Send curriculum vitae and names of three references to: Dr. L. R. Koster, Department of Biomedicine, University of South Dakota, 14 East Clark Street, Vermillion, SD 57069, FAX: (605) 577-6857. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP
Division of Experimental Oncology, Karolinska Institute

The project focuses on cloning of new tumor suppressor genes in leukemic malignancies. A background in molecular biology and cell biological approaches is required. Send curriculum vitae and the names and addresses of three referees to: Dr. Stefan E. H. Linn, Department of Experimental Oncology, Karolinska Hospital and Institute, S-751 76 Stockholm, Sweden. Telephone: 46 8 729 5513, FAX: 46 8 383031. BRIGHAM AND WOMEN'S HOSPITAL

Harvard Medical School

POSTDOCTORAL RESEARCH POSITIONS IN CARDIOVASCULAR RESEARCH

Program Director: Thomas W. Smith, M.D.

Postdoctoral positions are available in basic and clinical research for U.S. citizens and permanent residents. The primary purpose of the research fellowship is to develop expertise in a specific area of basic or clinical investigation. This will be pursued in association with emphasis on molecular biology, cell biology, physiology, or clinical research. We are particularly interested in applications from qualified minority candidates who wish to participate directly in the program of a research faculty member who shares their interests.

Direct inquiries to: Thomas W. Smith, M.D.

Cardiovascular Division
Brigham and Women's Hospital
75 Francis Street
Boston, MA 02115

Brigham and Women's Hospital maintains a drug/alcohol-free workplace. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS
Two postdoctoral positions available to study the molecular mechanisms that regulate isoprenoids and steroids. Candidates must have a strong background in molecular biology, cell biology, and/or biochemistry. Send curriculum vitae and names of three references to: Dr. I. Shechter, Eleanor Roosevelt Institute, Box 541 Gavar Street, Dehradun, India 248005. Equal Opportunity/Affirmative Action Employer. Minorities and women encouraged to apply.

RESEARCH POSITION IN PHARMACOLOGY

The Department of Pharmacology at Baylor College of Medicine is seeking applications for a RESEARCH ASSOCIATE or POSTDOCTORAL FELLOW with experience in modern molecular biology and/or biochemistry to undertake a research project on localizations of cellular proteins. The initial stipend is dependent on training and experience. The Department of Pharmacology has a long-standing program in molecular biology, pharmacology, and/or biochemistry. Studies on the mechanisms are in progress. Applications should be sent to: Harris Busch, M.D., Ph.D., Chairman, Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCHERS

The Department of Physiology and Biophysics, University of California, Irvine, is developing a postdoctoral candidate pool for possible openings during the remainder of 1993 and 1994. Positions may be available in the following research areas: ion channels in lipid bilayers; physical chemistry of membranes; mechanisms and regulations of steroid hormone biosynthesis; exercise physiology; molecular properties of ion channels in excitable cells; membrane and electrophysiological aspects of lymphocyte activation. Salary is in the range of $25,000-$35,000, plus benefits. Candidates with experience doing ion channel experiments on cationic channels in excitable cells are sought.

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

FUNGUS MOLECULAR BIOLOGY

The USDA Agricultural Research Service is seeking to fill a two-year POSTDOCTORAL RESEARCH ASSOCIATE position. The successful candidate will study the cellular and molecular biology of insect pathogenic fungi as part of a team investigating the development of fungi for pest insect control. Work will involve (1) selection of fungus strains with improved tolerance for environmental conditions, (2) determination of mechanisms of virulence, and (3) development of molecular markers as tools for related field studies. Ph.D. in Mycology, Molecular Biology, Plant or Insect Pathology, Microbiology, or related field. Salary range $33,623-$40,296 per year. Position open until filled. For information contact: John D. Vandenbume, USDA-ARS, U.S. Plant, Soil & Nutrition Laboratory, Tower Road, Ithaca, NY 14853. Telephone: 607-255-2456. USDA Agricultural Research Service is an Equal Opportunity Employer.

RESEARCH ASSOCIATE, M.D. or equivalent degree with 3 years of training in naval or diving medicine. 5 years of experience in diving research and medicine. Publications in scientific journals and presentations at scientific meetings. Will be responsible for the care and use of equipment used in diving medicine. Must be able to collect and analyze epidemiological data relating to recreational diving accidents from both national and international studies. The position is for a period of two years.

Applications and resumes should be sent to: C. Cahalan, Ph.D., Chairman, Department of Physiology and Biophysics, University of California, Irvine, Irvine, CA 92717. The University of Irvine, California, is an Affirmative Action/Equal Opportunity Employer.

GLOBAL CHANGE POSTDOCTORAL FELLOWSHIPS are available from the Department of Energy for research related to the U.S. Global Change Research Program under DOE and the Committee on Earth and Environmental Sciences. Areas include climate modeling and prediction, global and energy balance models, and carbon, and ecological systems and population dynamics. Stipend is $35,000. A doctoral degree received after May 31, 1991, is required as is U.S. citizenship or permanent resident status. The position is for a period of two years. Applications and personal statement must be received at DOE by May 15, 1994. Contact: Global Change Postdoctoral Fellowships, Science/Engineering Division Education Programs, U.S. Department of Energy, P.O. Box 117, Oak Ridge, TN 37831-0117; Telephone: (615) 576-9934.

POSTDOCTORAL FELLOWSHIPS

Two postdoctoral positions available to study the molecular mechanisms that regulate isoprenoids and steroids. Candidates must have a strong background in molecular biology, cell biology, and/or biochemistry. Send curriculum vitae and names of three references to: Dr. I. Shechter, Eleanor Roosevelt Institute, Box 541 Gavar Street, Dehradun, India 248005. Equal Opportunity/Affirmative Action Employer. Minorities and women encouraged to apply.
Assistant/Associate Professor Position

Assistant/Associate Professor tenure-track/tenured position is open in the College of Pharmacy. A Ph.D. in pharmaceutical chemistry, pharmacetics, medicinal chemistry or related discipline with at least one year postdoctoral experience is required. The successful applicant will be responsible for teaching pharmaceutical analysis to pharmacy students in the professional degree program. Graduate level instruction will also be required. The development of a strong, independent research program that is compatible with the research interests of the faculty at the College of Pharmacy is essential.

Applications should include a current curriculum vitae, description of research interests, the names of at least three references and should be directed to Dr. Henry Mosberg. Applications completed by February 28, 1994, will receive preference in consideration.

Henry I. Mosberg, Ph.D.
University of Michigan
College of Pharmacy
428 Church Street
Ann Arbor, MI 48109-1065
(313) 764-7144

The University of Michigan is a non-discriminatory, Affirmative Action employer.

Graduate Research Fellowships
TEXAS TECH UNIVERSITY

Graduate research fellowships are available to support superior Ph.D. candidates interested in biochemistry, cell biology, molecular biology, microbiology, physiology and genetics through the Institute for Biotechnology at Texas Tech University. The Institute has over fifty faculty members mainly from the Department of Biological Sciences, and Department of Chemistry and Biotechnology. Faculty research interests include regulation of cell wall synthesis, plant responses to environmental stresses, regulation of gene expression, molecular markers and genome mapping, plant tissue culture and transformation systems, evolutionary genetics, cytogenetics, microbial genetics, mechanisms of photosynthesis, and structure-function relationships in proteins and enzymes in bacteria and plants. Excellent field, greenhouse, growth chamber, and laboratory facilities are available for various aspects of biochemical, cellular, and molecular investigations. A modern protein and DNA instrumentation core facility funded by NSF, an electron microscopy laboratory, and antibody productions facilities are available to support the research programs. The graduate fellowship is a one year $15,000 stipend for the academic year from September 1, 1994 to August 31, 1995. Interested students should submit a graduate admissions application, a statement of research interests (1-2 pages), a resume, official college transcripts, GRE scores, and TOEFL scores (foreign students). We would also request that foreign students have their transcript sent to a certified copy of your GPA calculated on a 4.0 scale. All application materials must be received no later than March 1, 1994 for awards beginning in fall 1994. Please submit all application materials and have three reference letters sent to: Dr. David B. Knaff, Institute for Biotechnology, Mail Stop 1163, Texas Tech University, Lubbock, Texas 79409. Telephone: (806) 742-3067. FAX (806) 742-1289.

Assistant/Associate Professor
Department of Biochemistry
Louisiana State University

The Department of Biochemistry at Louisiana State University is seeking an anticipated Assistant/Associate Professor position (tenure track). Candidates must have a Ph.D. in biochemistry or closely related discipline and a strong record of postdoctoral research experience in modern enzymology, enzyme mechanisms and protein chemistry. Preference will be given to a protein X-ray crystallographer, who would develop and utilize an X-ray diffraction facility at the LSU CAMD synchrotron facility. The candidate is expected to establish a vigorous independent research program and participate in teaching at both the graduate and undergraduate level. The department has excellent facilities for studies on enzymes and proteins. The university's new synchrotron facility provides intense X-rays up to 10 keV, and will be equipped for X-ray diffraction and EXAFS capability. This facility affords a superb opportunity for structural biochemistry, a priority area for growth at LSU. Send curriculum vitae, description of current and proposed research programs and names and addresses of three references to:

Search Committee, Department of Biochemistry
Room 322, Choppin Hall
Louisiana State University
Baton Rouge LA 70803-1806
Phone: (504) 388-1556; Fax: (504) 388-5321

Application deadline: February 15, 1994
An Affirmative Action/Equal Opportunity Employer

THE NATIONAL RESEARCH COUNCIL announces
Postdoctoral & Senior Research Associateship Awards for Filovirus Research

Awards sponsored by the National Research Council are available at the U.S. Army Medical Research Institute of Infectious Diseases. Applications are invited from individuals interested in pursuing molecular approaches to understanding pathogenic mechanisms of Marburg and/or Ebola virus infection. Research opportunities include the use of mammalian cell expression systems to study the role of individual proteins in infection and immunity, and the characterization of viral epitopes recognized by cellular and/or humoral immune responses using animal model systems. Stipends begin at $32,400 per annum and are appropriately higher for applicants with greater than 5 years experience. Requirements: Ph.D. or equivalent. U.S. citizenship preferred; experience in animal virology and/or molecular pathogenesis would be advantageous. Awards are for 1 year with possible renewal for up to 3 years.

FOR FURTHER INFORMATION CONTACT:
Dr. Kevin Anderson (301) 698-7462 or Dr. Peter Jablonski (301) 619-2777
MAILING ADDRESS: Virology Division, USAMRIID
Bldg. 1425, Ft. Detrick, Frederick, MD 21702-5001
FAX: (301) 619-2495 or 619-4625

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by January 15 will be reviewed in February; by April 15, in June; and by August 15, in October. For application materials contact:

THE ASSOCIATESHIP PROGRAMS (TJ 2094/00)
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759

GRADUATE RESEARCH FELLOWSHIPS
TEXAS TECH UNIVERSITY

Applications and nominations are invited for the Dean of the College of Science which comprises the Departments of Biological Sciences, Chemistry, Geology, Mathematics and Computer Science, Meteorology, Physics and Science Education. Qualifications include teaching experience, research productivity and grant development, administrative, fiscal, and personnel management experience, commitment to shared academic governance, establishment of partnerships with scientific, technological, and educational communities, proven ability to develop funding for College projects and programs, sensitivity to student concerns in a multicultural campus. For a detailed announcement, contact Bonnie White at (408) 924-2410 or FAX (408) 924-2410. Candidates should send a letter of application, a curriculum vitae, and a list of five professional references. All inquiries and nominations will be held in confidence. The screening process will start by January 24 for full consideration and remain open until the position is filled with an expected date for appointment on or about July 1995. Submit nominations and applications to: Professor Leon Yengoyan, Chair, Dean of Science Search Committee, Office of the Academic Vice President, San Jose State University, One Washington Square, San Jose, CA 95192-0020. SJSU is an Equal Opportunity/Affirmative Action Employer and committed to diversity.

DEAN COLLEGE OF SCIENCE
SAN JOSE STATE UNIVERSITY
Mark your calendar now! For the fifth year, Science magazine and The Human Genome Organisation (HUGO) are pleased to sponsor the most comprehensive update on the genome project. The meeting will span issues in mapping, development, signal transduction, genome analysis, medical ethics, and policy.

The genome project is having a revolutionary effect on medical diagnosis, biotechnology, and investigations in cell and molecular biology.

- What are the newest advances in technology?
- How can the genome project be applied to understanding fundamental cellular processes?
- What are the latest developments in identifying disease genes?
- What are the social and policy issues facing us in the future?

For answers to these questions and a complete update on the genome project, don't miss this meeting!

Send me Human Genome '94 info today!
I'm interested in:  □ Conference  □ Exhibition
Name ____________________________________________
Title ____________________________________________
Organization ____________________________________
Address _________________________________________
City ________________________________ Zip __________
State ____________________________ Phone ___________
Fax ______________________________
Mail or fax to: Global Trade Productions, Inc., 5203 Leesburg Pike, Suite 1313, Falls Church, VA 22041. Fax (703) 671-7685.

Call (703) 671-1400 today or send in the coupon for more information.
Scientific Officer, Arctic Environmental Sciences

The Office of Naval Research is seeking a highly qualified individual to plan and manage a contract research program in the broad field of arctic environmental sciences. The sponsored research is conducted principally at universities and government/industrial laboratories by leading scientists in the field. This is a Civil Service position at the GS-13, 14 or 15 level, ($47,920 - $86,589), depending on qualifications.

The individual selected will establish goals for and conceive, organize and direct research and development programs in new areas of arctic environmental sciences including but not limited to dynamics of air-ice-ocean interaction, shelf dynamics, shelf-basin interaction and/or ice acoustic interaction. The incumbent will identify new research opportunities, evaluate and select research proposals for funding, manage funding resources, communicate ONR’s interests to the scientific community and represent the program within the Navy and DoD. This position provides the opportunity to have a significant impact on the direction and quality of research in arctic environmental sciences at the national level. Additionally, the opportunity exists to establish or maintain an individual research program at an academic institution or government laboratory.

Applicants must have a Ph.D. or equivalent training in oceanography, or in a physical science area (i.e., physics) related to physical oceanography and at least one year of professional experience OR an equivalent combination of education and experience. To be qualifying, this experience must have been at a level of difficulty and responsibility equivalent to that of the next lower grade level in the Federal Service. In addition, the applicant MUST have knowledge and experience in current state-of-the art research involving oceanography or physics which is evidenced by recent and significant publications in scientific literature. Applicants without this knowledge and experience will not be rated qualified for this position. Demonstrated experience in managing a basic and/or applied research program or project is strongly preferred.

Interested persons should send a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below), resume (optional); and, a list of publications to: Office of Naval Research, Satellite Human Resources Office, ONR Code 00HR, ATTN: Announcement #93-37 (SC), 800 North Quincy Street, Arlington, VA 22217-5660. The express mail address is: 4105 Wilson Blvd., Room 103, Arlington, VA 22203.

Applications will be accepted through 11 February and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. To request a copy of the vacancy announcement and supplemental forms, call (703) 696-4654; for further information, please call (703) 696-4163 or 696-4587 or TDD (telecommunication device for the deaf) 703-696-2681.

U.S. Citizenship Required

An Equal Opportunity Employer

---

**Tenure-Track Faculty Positions**

**Department of Genetics**

The Department of Genetics of the University of Pennsylvania School of Medicine is undergoing expansion, and plans to make several appointments in each of two areas: 1. Molecular genetics of lower eukaryotes, and 2. Mammalian or developmental genetics, including human molecular genetics. Attractive new laboratory space and other resources are available.

The deadline for applications is April 1, 1994. Send curriculum vitae, including bibliography, statement of research interests, and names and addresses of three references to:

Chair, Search Committee
Department of Genetics
School of Medicine
University of Pennsylvania
422 Curie Boulevard
Philadelphia, PA 19104

AN EQUAL OPPORTUNITY/AFIRMATIVE ACTION EMPLOYER

---

**Research Scientists - Immunology**

Biogen is a dynamic young biotechnology company principally engaged in developing genetically engineered human pharmaceuticals. Now in our 10th year, we are one of the few profitable biotech companies in the U.S. Revenues come from five products - including Intron (RA alpha interferon and hepatitis B vaccines and diagnostics -- sold throughout the world by licensees or affiliates. Current research is directed toward the discovery and development of proprietary products to treat inflammation, cardiovascular disease, AIDS and certain cancers.

We encourage your immediate response. Please forward your resume, to Human Resources, Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142; FAX (617) 252-9995.

Biogen is an Equal Opportunity Employer.
**POSDCTORAL RESEARCH FELLOW.** The Cancer Institute of New Jersey, a partnership of UMDNJ–New Jersey's University of the Health Sciences, UMDNJ–Robert Wood Johnson Medical School, Robert Wood Johnson University Hospital and St. Peter's Medical Center, has a position immediately available in the area of calcium mediated signal transduction and multidrug resistance to Ph.D. in a relevant area. Preferably Molecular Pharmacology. Send curriculum vitae and letters of recommendation to: William Halt, M.D., Ph.D., UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY–Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. UMDNJ is an Affirmative Action/Equal Opportunity Employer and a member of the University Health System of New Jersey.

**POSTDOCTORAL RESEARCH ASSOCIATE: A 1-year position is available starting February 1, 1994, on a National Science Foundation–funded project. Study M. background in comprehensive Cancer Center. Level of position and programmatic needs are flexible and will depend on experience and research program. Candidates must provide evidence of strong background in genetic epidemiology and/or Southern blotting.

Further details from: Kingsley Johnson, Ph.D., UMDNJ–Robert Wood Johnson Medical School, Box 35091, 1707 Hoes Lane, Piscataway, NJ 08854. UMDNJ is an Affirmative Action/Equal Opportunity Employer.

**MOLECULAR BIOLOGIST**

Neurex Corporation is a rapidly growing biopharmaceutical company involved in cloning and expressing ion channels and receptors. We are seeking a highly motivated dynamic Molecular Biologist to join our team. Required experience includes 2 to 3 years of experience. Preference will be given to candidates with experience in a variety of gene expression techniques. Send curriculum vitae to: Dr. Shobha K. Bhatia, Department of Clinical and Environmental Engineering, 220 Hinds Hall, STRAUSSE, New Brunswick, NJ 08903-2420. Telephone: (201) 443-2311, FAX: (201) 443-1243. Affirmative Action/Equal Opportunity Employer.

**RESEARCH ANIMAL SCIENTIST**

Ruminant Nutrition Laboratory, Beltsville Agricultural Research Center, Beltsville, Maryland.

ARS is seeking a ruminant nutritionist to work in the area of large animals with a particular focus on visceral organ nutrient hormonal flux and whole body energy use. Candidate must have knowledge of ruminant nutrition, biochemistry and energy metabolism, and skills in experimental design and analysis, measures of energy balance, and surgical techniques for chronic indwelling vascular cannula placement. Ph.D. is desirable. Must be U.S. citizen. Salary is commensurate with experience ($33,623 to $52,385 per annum). For information on the research program and/or position, contact: T. S. Runyon, Research Leader, (301)-544-9100. Interested candidates should send a Curriculum Vitae to: Dr. D.-E. Botheroe, 2nd Floor, Ross Building, Piscataway, NJ 08854. UMDNJ is an Affirmative Action/Equal Opportunity Employer.

**PLANT SCIENCE/ENVIRONMENTAL STUDIES**

The Biology Department at Bowdoin College is seeking a Ph.D. in Botany, with specialization in plant physiology, to begin a two-year postdoctoral position beginning September 1, 1994. Responsibilities will include teaching a laboratory course in botany/plant science and an interdisciplinary introductory course in environmental studies. Candidates with a successful candidate to direct upper-level independent studies students in biology and/or environmental studies. Evidence of an environmental perspective, teaching and research will be an advantage. Bowdoin is a highly selective coeducational liberal arts institution of approximately 1500 students located on the coast of Maine. Application materials must be received by January 31, 1994. Send résumé and three letters of recommendation to: Plant Science Search Committee, Biology Department, Bowdoin College, Brunswick, ME 04011. Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and members of minority groups are urged to apply and invited to identify themselves as such.

**GIS SPECIALIST**

World Wildlife Fund-US (WWF) seeks a GIS specialist for its Conservation Science Program. Responsibilities: serve as principal GIS resource person for WWF technical staff; supervise and manage the GIS platform, software and data; design and implement software programs in GIS; and explore innovative uses for GIS in conservation. Requires: advanced degree, preferably in natural resource or GIS field, with technical proficiency with Arc View and UNIX workstation and Arc Info software; three years in the use and management of relational databases and GIS; and willingness to travel. Please forward cover letter, résumé, and the names, addresses, telephone and FAX numbers of three contacts to: WWF, Human Resources Department, 371 FIF, 1250 24th Street, NW, Washington, D.C. 20037.

**TECHNOLOGY LIASON**

The Edison BioTechnology Center is seeking a Ph.D. to be a Liaison with the University of Cincinnati to identify biotech/ biomed technologies with commercial potential and assist the transfer to industry. Requirements include Ph.D. in biotech/ biomedical sciences and/or engineering and a minimum of two years in technology assessment andor business development. Send résumé by January 15, 1994, to: Edison BioTechnology Center, P.O. Box 4410, Edison, NJ 08836-9555. We are an Equal Opportunity Employer.
1994 Recruitment Advertising
Sneak Preview:

West Coast Biotechnology/Pharmaceutical Careers
11 February
Bonus distribution:
Biotechnology/Pharmaceutical Job Fairs
11-12 February, New Jersey
25-26 March, La Jolla, CA

Women In Science
11 March
Bonus distribution:
Biotechnology/Pharmaceutical Job Fairs
25-26 March, La Jolla, CA
22-23 April, Cambridge, MA

East Coast Biotechnology/Pharmaceutical Careers
1 April
Bonus Distribution:
Biotechnology/Pharmaceutical Job Fairs
22-23 April, Cambridge, MA
13-14 May, Chevy Chase, MD
Experimental Biology (FASEB)
24-28 April, Anaheim

B.S./M.S. Careers
26 August
Bonus distribution:
Top 50 Universities in the U.S.--Chemistry and Biology Depts.

Careers IV
23 September
Bonus distribution:
Biotechnology/Pharmaceutical Job Fairs
23-24 September, La Jolla, CA
30 September, 1 October, Cambridge, MA

For recruitment advertising deadlines
or reservations call Janis Crowley at
212-496-7704.
In Europe, contact Annemarie Vis
on 44-223-302-067.
The Department of Biological Sciences announces the following positions for fall 1994:

**TERRITORIAL ECOLOGIST** (tenure-track) to teach plant, wildlife and general ecology courses, closing date: 15 January 1994.

**INTRODUCTORY BIOLOGY TEACHING** (tenure-track) to organize and teach introductory-level biology courses, closing date: 1 February 1994. Both positions require a Ph.D. and teaching/research experience. For a detailed position description and application requirements, contact: Dr. Stamford D. Smith, Chair, Department of Biological Sciences, Central Washington University, Ellensburg, WA 98926. Telephone: (509) 963-2731, FAX: (509) 963-3396. GWU is an Equal Opportunity/Affirmative Action Employer.

**PLANT/SYSTEMS ECOLOGIST**

Desert Laboratory, University of Arizona

The Desert Laboratory of the University of Arizona invites applications for a tenured tenure-track faculty position focused on ecosystem function and management in grasslands and deserts. Position will utilize the resources of the Desert Laboratory, a research facility with a 90-year legacy in ecological research and monitoring, and the Anima Foundation, an institution established to study the sustainability of grazing in the southwestern United States. The Foundation's primary resource is the Gray Ranch, a 1320-square kilometer tract dedicated to conservation of southwestern ecosystems, maintenance of traditional rural livelihoods, and long-term ecological research. Academic responsibilities, including teaching, can be in Ecology & Evolutionary Biology, Geosciences, or School of Renewable Natural Resources. Send cover letter with names and telephone numbers of 3 references, curriculum vitae, and copies of up to 5 significant papers to: Dr. Jay Quade, Chair of Search Committee, Desert Labora-
yory, Department of Geosciences, University of Arizona, Tucson, AZ 85721; Telephone: (602) 621-2579 or 621-4051. Applications will be reviewed beginning February 7, 1994. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.

**MARINE/FRESHWATER BIOLOGIST**

ASSISTANT PROFESSOR, tenure-track, beginning August 15, 1994. Responsibilities include undergraduate courses in marine biology, supervision of a 3,000-gallon marine laboratory for undergraduate research, and advising Ph.D. and M.S. students. Active, funded research program expected. Research area open with preference to individuals who will collaborate with colleagues in established programs in animal physiology or Great Lakes ecology. Submit letter of application, résumé, statement of professional interests, and three letters of recommendation by January 15, 1994, to: Marine/Freshwater Biology Search Committee, Department of Biological Sciences, Bowling Green State University, Bowling Green, OH 43403. Affirmative Action/Equal Opportunity Employer.

**COURSES AND TRAINING**

**GRADUATE TRAINING IN VIRAL ONCOLOGY AND IMMUNOLOGY**

Stipends are available for students pursuing a Ph.D. in molecular oncology or immunology beginning September 1994. The principal interests of participating faculty are viral and cellular oncogenes, growth control, and molecular, cellular, and tumor immunology. Students will be supported chiefly by NIH programmatic training grant, requiring U.S. citizenship or resident status. We strongly encourage applications from minority students. Funding is also available outside of this source. Information and applications forms are available from: Dr. R. B. Carroll, Graduate Student Advisor, Department of Pathology, New York University Medical School, 550 First Avenue, New York, NY 10016. NYU is an Equal Opportunity Employer.

**COMPUTER MARKETPLACE**

**STATISTICAL SOFTWARE**

Accurate, easy to learn. For MS-DOS. Includes t-tests, ANOVA, chi-square tests, DOE, survival analysis, sample size and power analysis, curve fitting, graphics, more. Spreadsheet-style interface. Transfer graphics to other programs. Thousands of users. Base system: $125, Complete: $195. Ask for Dr. Huntze (PhD statistician) at (801) 546-0445. FAX: (801) 546-3907. NCSS, 329 North 1000 East, Kaysville, UT 84037. Mention this ad to receive 10% discount.

Circle No. 15 on Readers' Service Card

**PEPTIDES**

Custom made.

Around the

$30.00

residue 15-20 mgs

Shipped in 5-10 days

BIO-SYNTHESES

1-800-227-0627 Fax: 214-420-0442

Circle No. 11 on Readers' Service Card

**MARKETPLACE**

**PEPTIDES**

Custom made. NO SETUP

$30.00

residue 15-20 mgs

Shipped in 5-10 days

BIO-SYNTHESES

1-800-227-0627 Fax: 214-420-0442

Circle No. 11 on Readers' Service Card

**KEystone**

Labs, Inc.

The Complete Oligonucleotide Company

Custom DNA Synthesis: $3.50/base

No set-up fee! Shipped in 24 hrs

Call or write for batch sequence discounts and our complete product list.

Tel: 1-800-788-4DNA • Fax 1-800-786-4DNA

Circle No. 14 on Readers' Service Card

**MARKETPLACE**

**HUMAN ENDOTHELIAL CELLS**

VENOUS, ARTERIAL, AND MICROVASCULAR SYSTEMS

True pools of >50 donors, frozen @ <6 CDP in vitro, >500,000 cells, complete CS growth medium system characterized and tested for cytokine-stimulated leukocyte adherence, negative for HIV-1 DNA by PCR

Tel. 800-697-1211

Circle No. 30 on Readers' Service Card

**Amino Acid Analysis**

for your HPLC

Complete post-column systems, buffers, ninhydrin, OPA, columns, standards

PICKERING LABORATORIES

800-654-3330 • FAX: 415-968-0749

Circle No. 17 on Readers' Service Card

**PEPTIDES**

Synthesis and HPLC

Call for quotes, 10 mg and more

PEPTIDE TECHNOLOGIES

1-800-966-3384 FAX (301) 869-7308

Circle No. 8 on Readers' Service Card

**SCIENCE**

can publish YOUR LOGO with your one-column line classified ad. No extra fee is assessed: you will be billed at our regular line rate for the number of lines the logo occupies. For details, call Classified Advertising: 202-326-6585.

Circle No. 1 on Readers' Service Card
If you need 10-mer oligos for rapid mapping, you can now put all your eggs in one basket. Because you can now get 1000 different 10-mer primers from a single source, Operon.

Our 10-mer oligos are optimized for use in the genetic mapping method developed by Williams et al. (Nucleic Acid Res., 18 6531-6535). In this technique, single primers are used to amplify DNA polymorphisms, which are useful as genetic markers.

At just $150 per kit of 20 sequences, with free domestic delivery, our primers can be yours for chicken feed. We'll even deliver your order the very next day. So if you're using anyone else's 10-mers, isn't it time you crossed the road to Operon? With the greatest selection of primers in the world, we give your research a whole new level of flexibility.

For more information, or to place an order, call 1-800-688-2248.
During the holiday season our thoughts turn gratefully to those who have made our progress possible.
It is in this spirit that we say, simply but sincerely...

Thank You and Best Wishes for the Holidays and a Happy New Year

Back Row L to R: Sue, Mary, JoAnn, Lisa, Jay, Georgette, Randy, Kay, Jonathan, Abdul
3rd Row L to R: B.J., Jeff, Bob, Cindi, Kelly, Rob, Ben, Jim, Kelli, Kel, Marcus
2nd Row L to R: Mei, Tammy, Jessey, Stacy, Heather, Debra, Sandy, Carol, Mia, Mr. Hudson, Kimberly, Kim
Front Row L to R: Steve, Bobby, Gerald, Kevin