**PERSONNEL PLACEMENT**

**SCIENCE** publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertising is accepted only in accordance with the style guide. Any deadline for applications stated in ad must be at least two weeks prior to issue date. Periodic ad changes are made. Concerning ad content, the advertiser does not discriminate among applicants on the basis of age, national origin, handicap, or sexual preference. SCIENCE reserves the right to decline to publish advertisements submitted to it.

**LINE CLASSIFIED ADVERTISEMENTS**

**DEADLINE:** Thursday, 10 a.m. 2 weeks prior to issue date. Advertising is accepted only in writing.

**POLICIES:** All classified ads will be edited and typeset according to *Science* style guides. No abbreviations. Any deadline for applications stated in ad must be at least 2 weeks prior to issue date.

**CLASSIFICATION:** SCIENCE publishes line classified ads under the following headings: Positions Open, Employment Opportunities, Course Work, and Training, Employment, Announcements, and Marketplace. Advertisers should specify classification desired. SCIENCE reserves the right to decline classification requests which it believes may be misleading to readers.

**SUBMISSION:** Prepare double-spaced typed ad copy on a separate sheet. On cover sheet, state name and telephone number of contact person, desired date(s) of publication, and billing information, including any special invoicing requests. Mail or FAX to:

**SCIENCE Classified Advertising**

1151 Sixth Street, N.W.
Washington, DC 20005

Fax: 202-288-5685
Fax: 202-462-0616

**RATE:** $41 per line, $410 minimum, per week. Line equals 52 characters and spaces, centered headings equal 32 characters and spaces per line. No charge to use of blind box number. No agency commission for ads less than 3 lines. To estimate ad cost, structure ad copy on a 52-character line; include any desired heading on 32-character line. Each line of heading, one line of white space between heading and body of ad, and all partial lines (including centered reply information, if desired) are counted as full lines. Multiply total number of lines x $41 = approximate cost of ad, per week. (This is approximate cost only. Allow 20% deviation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. SCIENCE cannot provide estimates.)

**PREPAYMENT DISCOUNT:** A 3% cash discount is granted to all prepaid line ads. Prepayment in U.S. dollars by checks drawn on U.S. banks is required for all orders.

**CREDIT CARDS:** SCIENCE accepts MasterCard and VISA. Both personal and corporate cards may be used. Mail your prepayment discount does not apply to credit card ads.

**BOXES AND LOGOS:** Any 1-column line classified ad can be typeset and published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom rules. Logos are billed according to number of lines needed to accommodate logo.

**CANCELLATIONS:** Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

**DISPLAY PERSONNEL ADVERTISEMENTS**

For rates, deadlines, and information about fractional display ads (for newspapers larger) and all Manhattan listings of available products and services, contact:

Schenato Associates, Inc.
231 Madison Avenue, Suite 1200
New York, NY 10016
Telephone: 212-965-3100
Fax: 212-522-2100

**RESPONSES TO EMPLOYMENT AIDS**

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should follow any stated employment law, disciplines policies, visa requirements, and cultural differences. Applicants are to decline to classify their ads for employment opportunities. SCIENCE encourages applicants for positions to respond to classified ads even if they are not completely suitable for the applicant's background. SCIENCE also encourages applicants to place their ads in the Classified section. To reply to a blend box ad, address correspondence to:

Box (give number)

**SCIENCE Classified Advertising**

1151 Sixth Street, N.W.
Washington, DC 20005

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**POSITIONS OPEN**

**ASSISTANT PROFESSOR**

The Department of Anatomy and Neurobiology has a faculty vacancy available. The earliest starting date is 1 July 1991. Applicants should have at least 3 years of postdoctoral experience and should be able to participate in the teaching of science courses and microscopic anatomy, or gross anatomy. Applicants should have an active and ongoing research program. Send applications, together with a statement about research interests and the names of three referees by 17 March 1991 to: Faculty Search Committee, c/o Dr. Alan Peters, Department of Anatomy and Neurobiology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. Equal Opportunity Employer.

**PHARMACOLOGY AND TOXICOLOGY**

The Department of Pharmacology and Toxicology at the Philadelphia College of Pharmacy and Science (PCPS) anticipates the availability of a tenure-track faculty position at the rank of ASSISTANT PROFESSOR beginning 15 August 1991. A Ph.D. degree and 2 years of postdoctoral training are required. Responsibilities will include teaching pharmacology and/or toxicology to graduate and undergraduate students. Candidates are expected to design and conduct a research program supported by extramural funding. Applicants with research interests in all areas of pharmacology and toxicology will be considered. Deadline for applications is 31 March 1991. Applicants are expected to submit curriculum vitae, a statement of research goals, and the names of three references to: Search Committee Chair, Department of Pharmacology and Toxicology, Philadelphia College of Pharmacy and Science, Woodland Avenue at 45th Street, Philadelphia, PA 19104. PCPS is an Equal Opportunity/Affirmative Action Employer.

**SALMONID ECOLOGIST**

The University of Washington's School of Fisheries is soliciting applications at the level of assistant professor of biology for the position of ASSISTANT PROFESSOR. Candidates with experience in ecology, population biology, behavior, noogeography, or related disciplines are invited to apply. The successful applicant will be expected to teach a leadership role in a long-standing university-industry cooperative program of field research on the production and ecology of salmon in Alaska and teach two courses per year. The University of Washington maintains field camps on three undisturbed lake systems in Alaska and candidates must be willing to conduct research at these sites. This is a tenure-track position subject to final university approval. Candidates may apply by submitting curriculum vitae, letter of interest, reprints of three papers, teaching statement and the telephone numbers of four references to: Dr. Ellen K. Pikitch, Chair, Search Committee, School of Fisheries, WII-3, Box 351950, Seattle, WA 98195. Deadline for receipt of applications is 15 March 1991. The University of Washington is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

**BIOLOGY, ASSISTANT PROFESSOR**

The joint Biology Department of St. John's University and the College of St. Benedict invites applications for two sabbatical replacement positions at the assistant professor level. One of the two positions may be renewable for up to a maximum of five years. Teaching responsibilities for both positions will include introductory biology for majors. In addition, one position could be available to work in environmental science or life science for nonmajors and an upper division course in ecology; the other, life science, human biology, anatomy/physiology for nonmajors, and upper division physiology. Specific teaching responsibilities will depend upon departmental needs. A normal teaching load is two courses with laboratories each full term and one course during the summer. Adjunct positions are available.

Both positions require a Ph.D., demonstrated interest and ability in teaching, and a strong undergraduate background in biology. If the position is available for five years, the successful applicant will be expected to participate in the professional, graduate, and clinical training programs of the department and to develop an independent research program in an area of expertise in biological genetics. To apply, send curriculum vitae along with a description of research interests and three letters of reference to: Dr. Barry K. Childers, Chair, Department of Biology, Department of Biological Sciences, College of St. Benedict. Applications due by 25 February 1991. The School of Biology is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR**

We seek a broadly trained individual with expertise in population genetics, molecular genetics, or biochemical systems for a tenure-track position in the Department of Biological Sciences. Area of research open. The candidate will be expected to conduct a research program involving graduate students and to interact with an active research program in environmental toxicology. Teach introductory genetics and upper-level courses in the area of specialization. Ph.D. required; postdoctoral experience preferred. Send curriculum vitae, statement of teaching and research interests, unofficial transcripts, and names and telephone numbers of three references by 11 March 1991 to: Gary O. Christiansen, Director, Department of Biological Sciences, Southeastern Louisiana University, Box 814, Hammond, LA 70402. Telephone: 504-549-2162.

Women and minority candidates are strongly encouraged to apply.

**ASSISTANT PROFESSORS**

**BACTERIAL MOLECULAR GENETICS**

**MOLECULAR VIROLOGY**

The Department of Microbiology and Immunology, Bowman Gray School of Medicine of Wake Forest University, invites applications for tenure-track faculty positions at the assistant professor level. Applicants should possess a Ph.D. or M.D. degree and have at least 2 years of postdoctoral training in bacterial molecular genetics. Applicants will be expected to develop independent research programs and participate in the teaching of medical and graduate students. The department has substantial strength in the areas of molecular biology and virology. Outstanding research facilities are available within the department as well as through interdepartmental and institutional programs and centers such as the Molecular Genetics Program and the Comprehensive Cancer Center of Wake Forest University. Applicants should send curriculum vitae, a statement of research interests and goals, and the names of three references to: Dr. Steven B. Mizel, Department of Microbiology and Immunology, Bowman Gray School of Medicine, Winston-Salem, NC 27103. Wake Forest University is an Equal Opportunity/Affirmative Action Employer.

**TWO ASSISTANT PROFESSORS**

**PHYSIOLOGY**

**OKLAHOMA STATE UNIVERSITY**

The Department of Physiology and Pharmacology, College of Osteopathic Medicine (COM), invites applications for two faculty positions from individuals who are well qualified to establish a quality research and teaching program in respiratory or renal physiology. Preference will be given to individuals with interest in cardiovascular aspects of exercise, pathophysiology of airway disease, or renal mechanisms in hypertension. Applicants with other interests related to exercise physiology or transplantation are encouraged to apply. The positions will be available 1 July 1991. Applicants should send curriculum vitae, a description of research interests, and the names, addresses, and telephone numbers of three references to 1 April 1991 to: Dr. George M. Brenner, Chairman, Department of Physiology and Pharmacology, COM-OSU, 1111 West 17th Street, Tulsa, OK 74107.

**ASSISTANT PROFESSOR**

**DEPARTMENT OF GENETICS**

**MEDICAL COLLEGE OF VIRGINIA**

**VIRGINIA COMMONWEALTH UNIVERSITY**

Applicants are invited for a tenure-track position in the Department of Human Genetics. The successful candidate must have a doctorate (Ph.D., M.D. or M.D./Ph.D.) with training in molecular genetics, and demonstrate high potential for a successful research career. The candidate will be expected to participate in the professional, graduate, and clinical training programs of the department and to develop an independent research program in a relevant area of medical genetics.

To apply, send curriculum vitae along with a description of research interests and three letters of reference to: Dr. Barry K. Childers, Chair, Department of Biology, Department of Biological Sciences, College of St. Benedict. Applications due by 22 February 1991 cannot be guaranteed consideration. St. John's University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
POSITIONS OPEN

STOCKTON STATE COLLEGE
MARINE SCIENCE PROGRAM

ASSISTANT PROFESSOR OR INSTRUCTOR, IN MARINE SCIENCE. Full-time, tenure-track position in marine science, to begin 1 September 1991. Ph.D. preferred; will consider A.B. A strong commitment to undergraduate teaching and research is essential. Salary commensurate with experience. Applications should be received by 1 March 1991 and should include a letter of interest, curriculum vitae, and three letters of reference to: Barbara J. Byrne, Dean, Natural Sciences and Mathematics, State College of Science, Pomona, NY 14834. For information call (585) 777-1156. Equal Opportunity Employer.

MEDICAL GENETICIST. The Department of Internal Medicine at the University of Michigan is seeking a tenure-track ASSISTANT PROFESSOR. Qualifications include M.D. with Board certification or eligibility in internal medicine and medical genetics, and demonstrated research activities in molecular genetics. Applicants should provide curriculum vitae, the names of three referees, and a description of research goals. Please address all inquiries to: Francis Collina, M.D., Ph.D., Division Chief—Medical Genetics, University of Michigan Medical Center, 4714 Medical Science Bldg., Ann Arbor, MI 48109.

The Cancer Immunobiology Center and Department of Microbiology, University of Texas (UT) Southwestern Medical School, has a position for an ASSISTANT PROFESSOR. The individual will be expected to establish a research program as part of a highly interactive cancer research staff, and students. The candidate is expected to apply new NMR techniques to structural and biomedical problems, and to write papers and present data at appropriate professional meetings. Qualifications include a strong background in chemistry and computer science background, knowledge of a UNIX operating system at a system administration level, at least 3 years experience in NMR, and a Ph.D. in a biological or chemical field. Send resume and three letters of recommendation to: Dr. Franz Matschinsky, Department of Biochemistry, University of Pennsylvania, Philadelphia, PA 19104-6059. The university is an Equal Opportunity/Affirmative Action Employer.

ETHOLOGY/EVOLUTION, TEMPORARY INSTRUCTOR/ASSISTANT PROFESSOR. Applications are being accepted for a 1-year sabbatical leave replacement for the 1991-92 academic year. Ph.D. and teaching experience preferred. Responsibilities include teaching upper level courses in animal behavior and evolution as well as introductory courses for majors and nonmajors. Screening of applicants will begin 1 March 1991 and continue until the position is filled. Submit a letter of application, curriculum vitae, transcriptions, and three letters of recommendation to: John DeFino, Department of Biology, Bradley University, Peoria, IL 61625.

Bradley University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Department of Cell Biology, Stanford University School of Medicine, invites applications for two positions at the level of ASSISTANT PROFESSOR. The priority of the search is for individuals with significant accomplishments in structural biology, particularly in the areas of macromolecular structure determination by x-ray crystallography or electron microscopy.

Applicants should submit curriculum vitae and description of research plans and should arrange to have three letters of recommendation sent to:

Dr. David McKay
Chairperson of the Search Committee
Department of Cell Biology
Stanford University School of Medicine
Palo Alto, CA 94305-5400

Stanford University is committed to increasing representation of women and members of minority groups on its faculty. Deadline for applications is 15 March 1991; applications received after this date may not receive full consideration.

The Department of Biochemistry and Biophysics is recruiting a RESEARCH ASSISTANT PROFESSOR (supported by the National Science Foundation) for a highly interactive research environment. Responsibilities include the discovery, development, and dissemination of methods for the prediction and testing of the function of biological macromolecules. Ph.D. in biochemistry or a related field is required. Please send curriculum vitae, a letter of interest, three letters of recommendation, and copies of published or accepted papers to: Dr. Jean-Robert Derome, Program in Physico-Chemistry, University of Arizona, Tucson, AZ 85721. Equal Opportunity/Affirmative Action Employer.

HORTICULTURIST/PLANT PHYSIOLOGIST, PLANT SCIENCE PROGRAM, UNIVERSITY OF ARIZONA, TUCSON

Tenure-track appointment, ASSISTANT, ASSOCIATE, OR FULL PROFESSOR, 80% research, 20% teaching. Postdoctoral experience in related field. Responsibilities: develop an independent basic research program dealing with the physiological and genetic aspects of growth and development of horticultural plants. Research approach to integrate the application of genetics, molecular biology, and biochemistry to understanding fundamental mechanisms regulating these processes. Develop undergraduate/graduate course related to the area of expertise. Applications due: 15 March 1991 or until suitable candidate is found. Send a letter of application, curriculum vitae, and names of three references to: Brian Larkins, Department of Plant Sciences, The University of Arizona, Tucson, AZ 85721. Equal Opportunity/Affirmative Action Employer.

UNIVERSITÉ DE MONTREAL
PROFESSOR IN BIOPHYSICS

The Department of Physics of the Faculté des arts et des sciences has an opening for a professorship in its membrane biophysics group of the Membrane Transport Research Group, a multidisciplinary research center composed of 17 researchers. This group wishes to tackle the conformational aspects of transport molecules functioning. Duties: research in the field of membrane transport, understanding the level of the structure and functioning of membrane transporters using electrophysiological and spectrofluorometric methods; teaching at the undergraduate and graduate levels; supervision of graduate students; interact closely with colleagues; to be able to work in French within a period of 2 years. Qualifications: Ph.D. with postdoctoral level experience in biophysics. Send its curriculum vitae, three letters of reference and a copy of selected publications and a research statement by 1 June 1991. Subject to budget approval. The university is an Equal Opportunity/Affirmative Action Employer.

1 FEBRUARY 1991
HARVARD MEDICAL SCHOOL PROFESSOR OF BIOLOGICAL CHEMISTRY AND MOLECULAR PHARMACY

Applications are invited for the position of professor of biological chemistry and molecular pharmacology at Harvard Medical School. Candidates should have outstanding accomplishments and research focus in the biochemical and molecular pharmacology of viruses and antiviral agents. Major responsibilities will include supervision of an active research program and teaching of the biochemical and pharmacology of viruses to graduate and medical students.

Please submit curriculum vitae and list of publications to:

Professor Armen H. Tashjian, Jr., Chairman
Ad hoc Search Committee
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority applicants are particularly encouraged to apply.

SIMON FRASER UNIVERSITY THE SHRM CHAIR IN SCIENCE

Applications are invited for the Shrum Chair in the Faculty of Science at Simon Fraser University. This endowed chair is named after the late G. M. Shrum, the founder of Simon Fraser University. Candidates should be outstanding scholars whose research interests match those represented in the Departments of Biological Sciences, Chemistry, and Physics.

The chair is a 5-year appointment; the appointee will normally hold a tenured position as professor in the appropriate department. The salary will be commensurate with a distinguished chair appointment and the appointment will be effective 1 September 1992.

Applications, together with curriculum vitae and the names of four referents, should be sent by 1 May 1991 to:

C. H. W. Jones, Dean
Faculty of Science
Simon Fraser University
Burnaby, B.C. V5A 1S6, Canada

This advertisement is directed to those who would be eligible for employment in Canada. Simon Fraser University is committed to the principle of Equity in Employment and offers Equal Opportunity to all qualified applicants.

M.D. OR PH.D. FOR RESEARCH PROGRAM

The Department of Gastroenterology at Pennsylvania Medical Center of Philadelphia is seeking an M.D. or Ph.D. to direct a research program. Primary interest in GI motility preferred. Please submit curriculum vitae to: Anthony J. DiMarino, Jr., M.D., Pennsylvania Medical Center, 59th and Market Streets, Philadelphia, PA 19104.

ADMINISTRATOR. For scientific society. Challenging position in organizational operations. Includes general administration and staff support for committees. Requires detailed, dedicated-oriented person with undergraduate degree (graduate an preferred), excellent writing and communications skills, and ability to handle multiple projects. Familiarity with computers essential; experience with data base management or BASIC helpful. Send resume, references, and desired salary range to: P.O. Box 54335, Philadelphia, PA 19105.

DEPUTY DIRECTOR, CANCER CENTER OF THE MEDICAL COLLEGE OF WISCONSIN

An individual to develop research programs in clinical and basic sciences. Develop core support facilities and assist in the acquisition of core support facilities. Successful candidate will have an M.D. or Ph.D. and 10 years of experience in cancer biology or clinical research and academic or NIH administrative experience.

Individuals interested should send curriculum vitae to:

Ernest C. Borden, M.D.
Director
Cancer Center of the Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226

An Equal Opportunity/Affirmative Action Employer, M/F/H.

PRODUCT MANAGER
RESEARCH INSTRUMENTS

Full-time, permanent position in established company (40 employees) to market select scientific products. Previous business experience not as important as your motivation, willingness to learn skills. Computer literacy required. Ph.D. in one of the physiological sciences desirable. Chicago location. Please submit curriculum vitae and salary history in confidence to: Bob Rees, SCIENCE Classified Advertising, 1333 H Street, N.W., Room 940, Washington, DC 20005.

PUBLIC INFORMATION COORDINATOR.

For scientific society in Philadelphia. Challenging position in public affairs and is a must for professionals with excellent writing and communications skills. Responsibilities include liaison with government officials, scientists, lay persons, and the media. Relevant experience needed. Knowledge of congressional activities, media operations, public relations, biomedical science, or fundraising preferred. Send resume, writing sample, and desired salary range to: P.O. Box 54335, Philadelphia, PA 19105.

PROGRAM DIRECTOR
NATIONAL RESEARCH INITIATIVE COMPETITIVE PROGRAM U.S. DEPARTMENT OF AGRICULTURE

The National Research Initiative Competitive Grants Program (formerly Competitive Research Grants Office), USDA, seeks a qualified scientist to serve as program director for grant review and administration in areas of food safety and human nutrition. Candidates must have a Ph.D. or equivalent with major study in food, nutrition, or related scientific field.

Closing date is 25 February 1991. For further information on this full-time, permanent position, contact: Dr. Rosemary R. Gordon, NRICGP, Room 3332, Aerospace Building, 901 D Street, S.W., Washington, DC 20250–2200. Telephone: 202-401-6234. For information on application procedures/forms, contact: Ma. Kathy Ruff, NRCGP, 202–475–4811. USDA is an Equal Opportunity Employer.

A position is available in molecular/cellular biology of aging for a JUNIOR FACULTY tenure track, in the School of Gerontology with possible appointments in appropriate other departments. Strong research profile desired. Send curriculum vitae to: Dr. Caleb E. Finch, University of Southern California, Bethel Percy Andrus Gerontology Center, 3715 McClintock Avenue, Los Angeles, CA 90089–0191.

ATTENTION SCIENCE ADVERTISERS

$40 SPECIAL

Place your classified ad in any February 1991 issue of SCIENCE and we’ll give you double exposure. We’ll display the same position announcement at the AAAS Employment Exchange for only $40 more. That’s less than the cost of one additional line.

Hurry—place your ads now! The Employment Exchange will take place at the AAAS Annual Meeting, 15 to 18 February 1991, at the Washington Sheraton Hotel in Washington, D.C. Thousands of scientists in various disciplines have been invited to participate. Act fast and you can reach this unique pool of candidates.

When you place your classified ad in SCIENCE, send us a copy so we know that you want to take advantage of the $40 Special and we’ll do the rest.

For information on how you can interview candidates on-site, call J. Roberts at 202–326–6737.

FACULTY POSITIONS IN EXPERIMENTAL PATHOLOGY

The Department of Pathology and Laboratory Medicine, Texas A&M University College of Medicine, invites applications for tenure-track teaching and research positions. Applicants should submit curriculum vitae, a letter outlining professional interests and goals, and the names of three references capable of evaluating the candidate’s potential. Applications will be accepted through 1 April 1991. Search may be extended if a suitable candidate is not identified.

Address inquiries to: Dr. Robert Grieve, Search Committee Chairman, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Colorado State University is an Affirmative Action/Equal Opportunity Employer.

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THE UNIVERSITY OF CALIFORNIA SAN DIEGO

FACULTY POSITION IN PLANT POPULATION BIOLOGY

The Department of Biology, University of California (UC), San Diego, invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level in the general area of plant population biology. Possible areas of interest include: (1) community ecology, temperate or tropical forest structure and function, (2) population genetics, (3) plant pollination and seed dispersal coevolution, and (4) plant palaeontology. Applicants who can combine quantitative/theoretical skills with experimental field and/or laboratory studies will be preferred. The appointee must have a Ph.D. and postdoctoral training, and will be expected to conduct a vigorous research program and to participate in our teaching program. Salary, subject to availability of funding, will be commensurate with level of appointment and based on the published UC salary scale.

Applicants should send curriculum vitae, bibliography, and names of three references by 28 February 1991 to: Ms. Carrie Garnett, Plant Population Biology Search Committee, Department of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92039–0346.

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

FACULTY POSITION IN EXPERIMENTAL PARASITOLOGY

The Department of Pathology in the College of Veterinary Medicine and Biomedical Sciences at Colorado State University invites applications, nominations, and inquiries regarding a regular, full-time, tenure-track faculty position in parasitology. Candidates must have a Ph.D. degree in parasitology or a closely related field. An established investigator is preferred. Candidates should have demonstrable capability and research interests in the immunology of eukaryotic parasites. The primary responsibilities associated with this position include the development of a competitive extramurally funded research laboratory, including collaborative interactions with existing investigators, and the training of graduate and postdoctoral students. Additional responsibilities include nominal teaching duties, and involvement in other course offerings at the discretion of the appointee. Academic rank and salary will be competitive and commensurate with the qualifications of the selected candidate. Applicants should submit curriculum vitae, a letter outlining professional interests and goals, and the names of three references capable of evaluating the candidate’s potential. Applications will be accepted through 1 April 1991. Search may be extended if a suitable candidate is not identified. Address inquiries to: Dr. Robert Grieve, Search Committee Chairman, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Colorado State University is an Affirmative Action/Equal Opportunity Employer.
The University of Alaska Fairbanks invites applications and nominations for the position of Dean of the College of Natural Sciences. The University of Alaska Fairbanks is the major campus of the University of Alaska system and the major center of science research and education. The College of Natural Sciences encompasses four academic departments (Biological Sciences, Chemistry, Geology and Geophysics, and Physics) and the University of Alaska Museum and the General Science degree program. The College is closely associated with major research institutes (Geophysical Institute and Institute of Arctic Biology) and the Alaska Cooperative Wildlife Research Unit and Alaska Cooperative Fishery Research Unit. UAF is a major center for both basic and applied research with outstanding opportunities for study of high latitude systems. The College of Natural Sciences currently enrolls 343 undergraduate majors and 169 graduate students in master’s and doctoral programs and has 95 faculty members. Construction of a new Natural Sciences Building is in progress.

The Dean is the chief administrator of the College of Natural Sciences and reports to the Vice Chancellor for Academic Affairs. The Dean is responsible for curriculum development, budgeting, and personnel in the College and must facilitate interactions with research institutes.

The UAF campus overlooks Fairbanks, a thriving progressive community of 32,000, rated fourth best small community in the nation. Fairbanks offers outstanding cultural diversity, unsurpassed natural beauty and outdoor recreation, and friendly local atmosphere. Fairbanks is a transportation hub served by major airlines. Public and private schools in Fairbanks have an excellent reputation.

For consideration for this position, the following qualifications are requested:

- Earned doctorate and significant record of scholarly achievement sufficient for appointment at the rank of Professor in one of the departments of the College.
- Ability to build and maintain strong academic programs and recruit outstanding faculty and students.
- Experience in academic administration and budgeting.
- Strong human relations and communication skills.
- Vision and capacity to successfully develop nontraditional educational opportunities.
- Send curriculum vitae, statement of interest, and names, addresses, and phone numbers of five references to: Dr. Mark W. Oswood, Chair, CNS Dean Search Committee, Department of Biology and Wildlife, 211 Irving Building, University of Alaska Fairbanks, AK 99775-0180, Phone: (907) 474-7724, FAX: (907) 474-9867. Screening of applications will begin 11 February, 1991. Anticipated starting date for the position is July 1, 1991.
- The University of Alaska is an Affirmative Action, Equal Opportunity employer and educational institution.
Toxicologist/Group Leader

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert, a world leader in pharmaceutical development, has an immediate opening for a Toxicologist/Group Leader in the department of Pathology and Experimental Toxicology. This position requires an outstanding individual with an industrial or academic background and training in experimental toxicology. This individual will participate in designing, conducting and reporting preclinical toxicology studies with new drug candidates, will supervise the activities of other scientific staff in the conduct of these studies and will participate in drug discovery and development team activities.

The successful candidate must be able to work independently and as a member of a highly specialized team. The position requires a PhD or equivalent in toxicology and 3-5 years' experience in toxicology/safety evaluation research. Board certification in toxicology is highly desirable.

Our modern facilities are located adjacent to the University of Michigan campus. We invite interested, qualified applicants to consider this position offering excellent compensation, benefits and living and working environment with the research and development team at PARKE-DAVIS. Please reference Job #90-465 and forward curriculum vitae, salary requirements and a list of references to: Abilio Gonzalez, Human Resources Department, PARKE-DAVIS, Warner-Lambert, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment" "Equal Opportunity in Action"

PARK-DAVIS
A DIVISION OF WARNER LAMBERT

Dean, School of the Environment

Applications and nominations are invited for the position of Dean of the Duke University School of the Environment. The new School of the Environment, to be implemented July 1, 1991, reflects a major University-wide commitment to bringing the university's diverse resources in environmental sciences, engineering, management and public policy to bear on national and global environmental problems. The new School will carry out basic and applied research and offer educational programs in the environmental sciences, management and policy. The School will incorporate the existing School of Forestry and Environmental Studies, the Duke Marine Laboratory, and several existing and proposed research centers.

The School will offer graduate programs leading to the Ph.D., M.S., and A.M. degrees, and will offer professional degrees including the Master of Environmental Management and Master of Forestry. There will be an undergraduate teaching component and an executive education program. The School will offer concurrent degrees with Duke University's Fuqua School of Business, the School of Law and the Institute of Policy Sciences and Public Affairs.

The Dean of the School of the Environment is its chief executive officer and is responsible to the Provost and the President for academic and administrative leadership of the School. The successful candidate is expected to have a Ph.D. degree, with an established reputation in a natural or social science field with an interest in, or identification with, the broad area of environmental science and management. Candidates must meet the standards for appointment at the rank of professor with tenure and have demonstrated abilities of leadership, administration, and fund raising. The projected starting date is July 1, 1991.

Applications and nominations, along with names of three references, should be sent no later than February 25, 1991 to: Dr. Robert Healy, Chair, Dean Search Committee, Office of the Provost, Duke University, Durham, NC 27706. FAX (919) 684-4421.

Duke University
Duke University is an Equal Opportunity/Affirmative Action Employer.

A Science Reprint Booklet

Due to the popularity of Science's recent three-part series by Robert Pool examining the debate over the possible biological effects of electromagnetic fields, we put the articles together in one convenient and comprehensive reprint booklet. The first article looks at the epidemiological evidence for a link between electromagnetic fields and cancer. The second article deals with cell and animal studies, and the third examines policy questions and the politics behind the research.

To order copies of this booklet, complete the coupon below and send your check, payable to AAAS. All orders must be prepaid.

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Corrine Harris • AAAS/Reprints
1333 H Street, NW • Washington, DC 20005
The Pandex Division of the Fortune 75 Baxter Healthcare Corporation is making progress in the development of highly advanced medical diagnostics technology. We're seeking individuals with varying levels of experience to take on different aspects in the development of immunoassays for infectious disease.

RESEARCH ASSOCIATES

Assay Development
Biochemistry
Immunology
Protein Purification

Selected individuals shall assist in the development of assays and protein purification. Responsibilities also include organizing project plans, assay optimization, sourcing raw materials, data analysis, and writing technical papers/procedures.

We require a BS and 1-3 years experience in Immunology, Biochemistry, Microbiology or Virology. Knowledge of basic laboratory techniques, good communication, interpersonal and computer skills are essential.

SCIENTIST

Cell Biology/Virology
Molecular Biology

In this bench level position the selected individual will be responsible for developing new procedures, preparing reagents for use in immunoassays and/or gene cloning, assisting process scale up, sourcing raw materials, data analysis and writing technical papers/procedures.

We require a Ph.D in Biochemistry/Molecular Biology/Immunology or a related field and prefer 2-3 years of relevant industry experience.

In addition to a progressive scientific environment, we provide an excellent compensation package. For confidential consideration, please send resume with salary history indicating which position you are interested in to: Human Resources, Baxter Healthcare Corporation, Pandex Division, 909 Orchard Street, Mundelein, IL 60060. No phone calls please.

Equal Opportunity Employer.

Pandex Division

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**Associate Director**

**Macromolecular Structure and Dynamics Program**

Battelle, Pacific Northwest Laboratories

Battelle, Pacific Northwest Laboratories (PNL) is seeking a senior scientist to head a new multiuser center for research on macromolecular structure and dynamics (MSD). The MSD program is one component of the new Molecular Science Research Center (MSRC) at PNL, and will initially focus on structural analysis of biological macromolecules using advanced NMR, mass spectrometry and other spectroscopic techniques. Several ultrahigh-resolution instruments, including a 1000-MHz NMR spectrometer and a 14-tesla ion cyclotron resonance mass spectrometer are currently under development as part of the MSD program. The program leader will hold the rank of Associate Director within the MSRC, and will be responsible for operation of the MSD program as a national user center containing a core PNL staff of approximately 40 scientists, technical specialists, and students.

PNL is one of five national multiprogram energy laboratories, and is operated by the Battelle Memorial Institute under a contract with the U.S. Department of Energy. The Laboratory has a staff of approximately 3,000 personnel conducting research in physics, chemistry, materials, engineering, mathematics and computer science, earth and environmental sciences, and the life sciences.

Applicants should send a resume, reprints of 3-5 recent publications, and the names, addresses, and telephone numbers of 4 references to: Dr. T.S. Tenforde, Chief Scientist, Life Science Center (K1-50), Battelle, Pacific Northwest Laboratories, PO. Box 999, Richland, Washington 99352. Deadline for receipt of applications is March 1, 1991. An Affirmative Action, Equal Opportunity Employer.

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**Catalog Marketing Manager**

**PCR Reagents**

Perkin-Elmer Corporation has an outstanding opportunity in our biotechnology joint venture, P-E Cetus, for a Catalog Marketing Manager for PCR reagents.

This is an exciting marketing opportunity in a very visible, high-growth environment. You will be based at Corporate Headquarters in Norwalk, Connecticut and will be responsible for all U.S. direct marketing and customer contract activities for PCR reagents, including catalog creation, direct mail, technical support and market research. You will also have P&L responsibility. The position reports to the Director of Marketing, P-E Xpress, which is the direct marketing organization for the P-E Cetus joint venture.

Applicants for this position must have at least an M.S. degree in Molecular Biology, or a related field, some laboratory experience and at least 5 years experience in consumables marketing.

Perkin-Elmer rewards qualified professionals with outstanding growth opportunities, competitive salaries and a comprehensive benefits plan. Qualified applicants should send their resume, in strict confidence, to Mr. E.K. Hutton, Sr. Manager, Human Resources, The Perkin-Elmer Corporation, 761 Main Avenue, Norwalk, Connecticut 06859-0325.

An equal opportunity employer.

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FACULTY POSITION IN ANATOMY
FLORIDA STATE UNIVERSITY

The Department of Biological Science is seeking a new faculty member to complement and enhance its current strengths in organismal and evolutionary biology, physiology and neurobiology, or molecular and cellular biology. The appointment is for a 12-month term at the level of ASSOCIATE PROFESSOR and the successful candidate will be expected to develop an active program of research and graduate teaching. The main focus of teaching responsibility will be a human gross anatomy course for first-year medical students. Every other academic year a candidate may teach an upper-level undergraduate or graduate course in areas such as histology, parasitology, comparative anatomy, or in the area of the applicant’s research. We encourage candidates to combine research interests and contribute to the Department of Biological Science has extensive, staffed research and support facilities, including laboratories for molecular and cytological sequencing and analytical chemistry, electron microscopy, hybridoma technology, computer graphics, a machine shop, an electronic shop, two greenhouses, and a small farm. Send a letter of application, curriculum vitae, copies of publications, statements of research and teaching interests, and names and addresses of three references to: Dr. L. G. Abele, Chairman, Department of Biological Science B-142, Florida State University, Tallahassee, FL 32306-1155, for an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.

RESEARCH FACULTY/NEUROSURGERY UNIVERSITY OF KENTUCKY

A FACULTY POSITION is available for a basic scientist with expertise in the role of arachidonic acid, free radicals, cytoxins, or polyamines in the pathophysiology of the brain response to ischemia and injury. Candidates must have a Ph.D. with postdoctoral experience and be capable of supervising existing laboratories. The candidate will also be involved in developing a research program in their area of expertise and to successfully compete for external funding. Send curriculum vitae and references to: Dr. Robert Dempsey, MS105A UKMC, 800 Rose Street, Lexington, KY 40536. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available to participate in the development and use of computational and theoretical methods for understanding disease progression and prevention. Send curriculum vitae and two letters of recommendation to: Donald L. Price, M.D., Neuropathology Laboratory, Johns Hopkins University School of Medicine, 509 Pathology Building, 600 North Wolfe Street, Baltimore, MD 21205-2181. Affirmative Action/Equal Opportunity Employer. Applications from minorities are encouraged. Because of funding requirements, applicants must be U.S. citizens/permanent residents.

POSITIONS OPEN

FISHERIES AND WILDLIFE
UTAH STATE UNIVERSITY

The Department of Fishes and Wildlife at Utah State University is seeking applicants for three tenure-track FACULTY POSITIONS in wildlife. Applications accepted until 1 March 1991 or until suitable candidates are selected.

CONSERVATION BIOLOGY. ASSISTANT/ASSOCIATE PROFESSOR (9 month) to staff a USDA-funded program for managing problems caused by vertebrate wildlife. Responsible for establishing extension and teaching extension programs in wildlife management. Experience in wildlife management, wildlife populations, and wildlife management policies is essential. Experience in agricultural, wildlife production systems, wildlife population biology, ecological, wildlife policy and economics desirable. Available fall or spring. Send three letters of reference to: Dr. R. K. Gilbert, Chair Search Committee.

ANIMAL DAMAGE MANAGEMENT. ASSISTANT/ASSOCIATE PROFESSOR (9 month) to staff a USDA-funded program for managing problems caused by vertebrate wildlife. Responsible for developing and teaching extension programs in wildlife management. Experience in agricultural, wildlife production systems, wildlife population biology, ecological, wildlife policy and economics desirable. Available fall or spring. Send three letters of reference to: Dr. R. K. Gilbert, Chair Search Committee.

WILDLIFE EXTENSION SPECIALIST. ASSISTANT PROFESSOR (12 month) responsible for wildlife extension program and applied research in area of specialty. Responsible for effective information transfer to landowners, public agencies, the general public, and youth groups. Ph.D. required. Available fall or spring. Send three letters of reference to: Dr. R. K. Gilbert, Chair Search Committee.

Department of Fisheries and Wildlife, Utah State University, Logan, UT 84322-5210.

Utah State University is an Affirmative Action/Equal Opportunity Employer.

CELLULAR AND MOLECULAR PATHOLOGY

Applications are invited from outstanding candidates for a FULL-TIME, TENURE-TRACK POSITION in the newly established Cellular and Molecular Pathology Section of the Department of Pathology at the University of Texas Southwestern Medical Center. The Cellular and Molecular Pathology Section is located in the new University Laboratories which currently house seven independent investigators plus shared facilities. Our goal is to recruit excellent basic scientists to an interactive and active environment centered around molecular approaches to disease mechanisms. Successful candidates should have a Ph.D., M.D., or equivalent degree plus at least 2 years of postdoctoral research training and will be expected to establish and maintain independent, externally funded research programs. Interested individuals should submit curriculum vitae, a brief description of prospective research plans, and three letters of recommendation to:

Chairman, Molecular Pathology Search Committee
Department of Pathology
Baylor College of Medicine
Houston, TX 77030

POSTDOCTORAL POSITION is available immediately to study molecular and genetic aspects of NK cell ontogeny. Applicants with experience in these areas should send summary of current research, curriculum vitae, and the names of three references to: Chief, Section on Natural Immunity, Department of General Surgery, The University of Texas, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 18, Houston, TX 77030.

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More than 150,000 people paid to see your ad in SCIENCE. Contact Advertising for details. Telephone: 202-326-6555. Fax: 202-682-0816.
The Cancer Research Institute is planning to grant its investigator Award to a minimum of five qualified immunologists in 1991. The award is $50,000 per year for four years. The funds may be used at the discretion of the recipient for salary, technical assistance, supplies, or capital equipment. The Cancer Research Institute does not provide funds for administrative overhead.

The deadline for receiving applications is May 1, 1991. Funding for the Investigator Awards will commence on July 1, 1991.

Candidates must hold a doctoral degree and work in the field of tumor immunology or general immunology. Eligibility is limited to scientists who will be in their first or second year as assistant professor (or equivalent rank) as of July 1, 1991. Please note that individuals who begin their third year as assistant professor on July 1, 1991, are not eligible for the award. The Institute has no citizenship restrictions, and research supported by the award may be conducted anywhere in the United States or abroad, excluding private-sector for-profit laboratories.

For application details, please contact:

Ms. Ursula Hahn, Grant Administrator
Cancer Research Institute
133 East 58th Street
New York, NY 10022
212-688-7515
POSTDOCTORAL POSITION. Available to join in the identification and purification of ribonuclease activities, and cloning the genes encoding these activities, that are required for messenger RNA decay in B. subtilis. Previous experience in mRNA purification is desirable. Send curriculum vitae plus names and telephone numbers of three references to: Dr. David Bechhofer, Department of Biology, Administration, Box 1020, The Johns Hopkins School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

MOLECULAR BIOLOGISTS

POSTDOCTORAL appointment is available to join group engaged in studies on the P-element-mediated project for the characterization and identification of DNA-binding proteins. The ideal candidate is well versed in recombinant DNA techniques, although all applicants will be considered. Salary is $25,000 to $30,000. Please forward curriculum vitae to: Dr. John E. Mole, Department of Biochemistry, University of Massachusetts Medical Center, Worcester, MA 01605.

The University of Massachusetts Medical Center is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION DEVELOPMENTAL BIOLOGY

Applications are invited for a postdoctoral scientist to work as an Associate on a Drosophila neurobiology project at the Laboratory for Molecular Genetics at Yale College of Medicine. Research projects will involve studies of a new gene isolated by the yeast two-hybrid system (Bielefeldt et al., 12, 1990) and that are expressed in the peripheral and central nervous system of embryos or larval/adult flies. Candidates should have Ph.D. in molecular biology, genetics, or biochemistry. Please forward your curriculum vitae and three letters of recommendation to: Dr. Hugo Bellen, Institute for Medical Research, One Baylor Plaza, Baylor College of Medicine, Houston, TX 77030. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IMMUNOLOGY

Exciting new approach to specific immunotherapy in autoimmune disease model myasthenia gravis. Ph.D. in immunology or equivalent. Experience in cell culture, immunoenzymes, immunocytochemistry, etc. required. Send curriculum vitae, references, and a statement of the research interest to: Dr. Daniel B. Drachman, M.D., Johns Hopkins School of Medicine, 600 North Wolfe Street, 5-119 Meyer, Baltimore, MD 21205.

POSTDOCTORAL POSITION. Postdoctoral position is available jointly with the Federal Service, USDA, to study the replication and basis of host specificity of the Lysteria duper nuclear polyhedrosis virus at the molecular level, and to work towards the development of enhanced viral biological control agents for use against forest insect pests. A background in molecular biology with experience in gene cloning, gene sequencing, site-directed mutagenesis, and DNA analysis is desirable. Starting salary at $31,000 plus benefits. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. James M. Snavely, USDA Forest Service, 359 Main Road, Delaware, OH 43015. The USDA is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Immediate openings for POSTDOCTORAL FELLOWS in the molecular components of contraction coupling in skeletal muscle. Current research projects involve structural and functional studies of the Ca2+-activated myosin light chain kinase receptor; purification and cDNA cloning of junctional sarcoplasmic reticulum proteins involved in the regulation of Ca2+ release; and co-expression of junctional sarcoplasmic reticulum proteins with the subunits of the transverse-tubule dihydropyridine receptor. Background in molecular and/or cellular biology is desirable but not essential. Send curriculum vitae and names of three references to: Dr. Kevin P. Campbell, Department of Physiology and Biophysics, University of Iowa College of Medicine, 400 EMRB, Iowa City, IA 52242. Equal Opportunity Employer.

POSTDOCTORAL POSITION. To study the control mechanisms of complement activation on cell surfaces. Experience in cell biology and biochemistry is desirable. Send curriculum vitae and names of three references to: Dr. Charles W. Simons, Department of Pathology, NYU Medical Center, 550 First Avenue, New York, NY 10016. New York University is an Equal Opportunity Employer.


POSTDOCTORAL POSITION. Available immediately to study mechanisms of systemic and cellular/organ damage, mortality, and effects of anesthetics during hemorrhagic shock. Strong background in physiology and/or pharmacology is desired. Interest in tissue ischemia and reperfusion effects. Send curriculum vitae and three references to: Dr. M. Dan McKinnon, Ph.D., Department of Neurology, University of California, San Diego, 92093-0121. An Affirmative Action/Equal Opportunity Employer.

MEDICAL RESEARCH COUNCIL (MRC) NATIONAL INSTITUTE FOR MEDICAL RESEARCH POSTDOCTORAL SCIENTIST

Applications are invited for a 3-year postdoctoral appointment funded by the Mucosal Dystrophy Group to work with Dr. F. A. Lai in the Division of Physical Biochemistry. The project involves the isolation, characterization, and cloning of the membrane glycoprotein components of the dystrophin complex. Candidate is expected to have experience in molecular biology, biochemistry, and cell biology. Starting salary will be in the range of £15,085 to £18,522 inclusive of London allowance (dependent on experience). MRC pension scheme option.

Applications, including curriculum vitae, list of publications, and two professional referees, should be sent to: Mr. G. R. Rust, Applications Manager, Medical Research Council, Medical Research Council, The Ridgeway, Mill Hill, London NW7 1AA, England, not later than 22 February 1991 quoting reference P/F/MDG/FD. Informal inquiries should be made to: Dr. Tony Lai on 081-989-8666, ext. 2154. The MRC is an Equal Opportunities Employer. Smoking is actively discouraged.

The Basic Science Departments (Cell Biology and Neuroanatomy, Biochemistry, Microbiology, Pharmacology, Pathology, and Immunology) of the University of Minnesota, periodically have openings for POSTDOCTORAL TRAINING.

For information about possible openings in these programs, write, within 3 months of your interest, to: University of Minnesota Medical School, Box 293 UMCHE 420 Delaware Street, S.E. Minneapolis, MN 55455-0624, Attn: James C. Nelson The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications by women, minority and disabled persons.

POSTDOCTORAL RESEARCH POSITION AVAILABLE

The Department of Neurosciences, University of California, San Diego, is seeking a qualified Ph.D. or M.D. for a postdoctoral position to work in pharmacology of stroke. Studies concern animal models and clinical trial experience is available for appropriate candidates. The position requires background in pharmacology and ability to perform animal surgery. Knowledge of behavioural testing and histology is desirable. The position is available immediately. Salary is based on the University of California scale of $26,000 to $35,000 plus benefits, and salary levels will be commensurate with experience. Send resume to: Dr. M. B. L. Wilson, WINTC, President of San Francisco, CA 94129 by 15 February 1991. An Equal Employment Opportunity.

POSTDOCTORAL RESEARCH ASSOCIATE, NUTRITION RESEARCH. The Western Human Nutrition Research Center (WHNRC), U.S. Department of Agriculture (USDA), is seeking a qualified Ph.D. or M.D. as a research associate to participate in multidisciplinary studies of molecular virology and immunology of animal virus and virus-vector interactions, particularly retroviruses. Excellent location and research facility. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: Dr. W. M. S. Hill, Department of Retroviral Biology, Public Health Research Institute, 455 First Avenue, New York, NY 10016.

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FOR MORE ASSOCIATE POSITIONS. Available immediately for highly qualified individuals to participate in multidisciplinary studies of molecular virology and immunology of animal virus and virus-vector interactions, particularly retroviruses. Excellent location and research facility. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: Dr. W. M. S. Hill, Department of Retroviral Biology, Public Health Research Institute, 455 First Avenue, New York, NY 10016.

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POSTDOCTORAL RESEARCH FELLOWS.

To study the regulation of isoprenoid metabolism. Several positions are available in our Division of Lipid Metabolism and Biochemistry, with a variety of aspects of the regulation of biosynthesis of cholesterol and other isoprenoids. Prenylation of proteins is also of particular interest. Applicants with backgrounds in lipoprotein metabolism, protein chemistry, and molecular biology are welcome. Principal investigators participating in this program include Dr. N. S. Kowaltowski, Dr. M. J. Snider, and Dr. M. R. Drabik. The positions start from $17,000 to $25,000 depending on experience. Send resume to: Dr. Michael Sinensky, Ebling Laboratory, University of California, 1899 Gaylord Street, Davis, CA 95616. The University of California is an Equal Opportunity/Affirmative Action Employer.

African American Postdoctoral Opportunity.
**RESEARCH ASSOCIATE**

**CELL CULTURE PROCESS DEVELOPMENT**

Amgen, an innovative leader in the discovery, development, and marketing of human therapeutics through applied biotechnology, has an immediate opportunity for a Research Associate in our Cell Culture Process Development Group.

We are seeking a highly motivated, independent individual for a challenging position involving studies relating to culture alterations on protein glycosylation. Additional responsibilities will entail investigation of novel attachment factors for application toward serum-free medium development. A BS/BA degree in Biological Sciences is required. A background in cell culture, gel electrophoresis and Western blot analysis as well as 1-2 years' experience in industry are preferred.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology as well as an excellent compensation and benefits package. We are located in an attractive community northwest of Los Angeles and free of the concerns normally associated with the LA area. Candidates should address their CV to:

**AMGEN, INC.**  
**Recruitment, Dept. #569**  
**Amgen Center**  
**Thousand Oaks**  
**CA 91320-1789**

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**MATHEMATICAL SCIENCES**

**Staff Director**

The NATIONAL RESEARCH COUNCIL is seeking a Staff Director for its Board on Mathematical Sciences. Responsibilities include directing a professional staff, conducting a diverse set of studies in the mathematical sciences, and implementing those studies in concert with university, governmental, and industrial sectors. Requires Ph.D. or equivalent in a directly relevant field; 7-10 years relevant experience, extensive working familiarity with research in pure and applied mathematics and statistics; experience with administration and/or study project management; and demonstrated management and communications skills.


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POSTDOCTORAL RESEARCH FELLOW. In molecular cell biology. Skilled in basic recombinant DNA techniques, experience in mammalian cell culture, mRNA isolation and characterization (i.e., Northern blotting and in situ hybridization), and protein purification. Interest in the changes of connective tissue genes (collagen synthesis) as a function of tissue injury. Salary: $25,000 to $30,000. Excellent research environment, health benefits, and scientific travel funds. Send résumé and reference letters to: Professor David A. Virgil, Director, Orthopedic Biochemistry, UCSD 0630, La Jolla, CA 92039-0630.

FELLOWSHIP POSITION IMMUNOPATHOLOGY

The University of Arizona Department of Pathology invites applications for a clinical fellowship in immunopathology. This fellowship will combine experience with biopsies of renal and, if desired, other organ biopsies as well as active referral service for tumor marker studies of lymphoreticular and solid neoplasms. Applicants must possess M.D. degree with at least 2 years training in anatomic pathology required. Position available 1 July 1991. Submit curriculum vitae and three letters of reference to: Dr. Raymond B. Nagle or Dr. Thomas M. Grogan, Department of Pathology, University of Arizona Health Sciences Center, Tucson, AZ 85724. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE POSITIONS IMMEDIATELY

For work on serotonin, galanin, and NPY and their receptors and second messenger systems in the control of ion channels and exocytosis. Candidates should have a Ph.D. or equivalent degree with experience in electrophysiology, biochemistry, biophysics, cell physiology, or pharmacology. Applications, including curriculum vitae and the names of three referees, should be sent to: Dr. Geoffrey W. G. Sharp Professor and Chair of Pharmacology College of Veterinary Medicine Cornell University Ithaca, NY 14853-6001 Cornell University is an Affirmative Action/Equal Opportunity Employer/Educator.

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

The Neonatal Research Laboratory at Tulane University School of Medicine seeks a qualified individual to study the developmental regulation of the heparin-binding growth factors. The successful candidate will also have the opportunity to develop his/her own research ideas and to supervise research by neonatal fellows. Familiarity with the techniques of molecular biology and experience in the preparation of manuscript and doctoral degree preferred. Funding is secure and salary is negotiable based on qualifications. Apply to: Dr. Thomas Storch, Pediatrics Department, O. University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATES (B.S./M.S.)

IN CHEMISTRY AND BIOCHEMISTRY

AgriGenetics Company, a division of the Lubrizol Corporation with a major research facility in Madison, Wisconsin, is seeking applicants for two positions in its biotechnology group. One position will work with plant cells, and the second position is for a BIOCHEMIST to participate in all biochemical aspects of projects directed at gene isolation, cloning, and expression. This individual will also be responsible for purification and electrophoresis is required, while some experience in immunological methods is preferred. Both positions require a B.S. or M.S. in chemistry and biochemistry, or related fields, with several years of laboratory experience. Send résumé to: Dr. Mike Pollard, AgriGenetics Company, 5649 East Buckeye Road, Madison, WI 53716-2499. An Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTISTS/POSTDOCTORAL FELLOWS. Senior and junior positions available (3 years) to study proteolytic processes used by normal and transformed cells to degrade extracellular matrix barriers (J. Clin. Invest. 83, 1122 (1989); N. Engl. J. Med. 230, 365 (1989); J. Biol. Chem. 259, 178-181 (1984); 290 (1990)). Strong background in either endothelial cell-extracellular matrix biology/molecular biology or leukocyte/tumor cell biology is absolutely required. Salary: $53,000 to $60,000 for assistant research scientist and $20,000 to $25,000 for postdoctoral fellows. Applicants for assistant research scientists must be U.S. citizen or permanent resident of the U.S. Submit curriculum vitae and two letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine and Oncology, University of Michigan, Simpson Memorial Institute, 102 Observatory Street, Ann Arbor, MI 48109.


SENIOR ENZYMOTOLOGIST/INSECT PHYSIOLOGIST. ISK-Mountain View Research Center (ISK-MRC), an agrochemical research facility located in Sunnyvale, California, has an immediate opening for a Ph.D. entomologist with postdoctoral experience in insect physiology. The position requires the design and implementation of innovative assays to assess the effects of novel biopesticides of insect pests. Candidates must have expertise in the dissection and preparation of insect organs and in the use of RIA and chromatographic techniques. To be considered for this position, please send your curriculum vitae including salary requirements; list of publications, and the names, addresses, and telephone numbers of three references to: Dr. James A. Klocke, ISK-MRC, 1195 West Fremont Avenue, Sunnyvale, CA 94087.

OCEANOGRAPHERS

Recent Ph.D. and/or postdoctoral fellows in fisheries/biological oceanography should apply for immediately available 4-YEAR RESEARCH POSITIONS in oceanography at Dalhousie University and biology at McGill University. Successful candidates will join an established interdisciplinary group in the Ocean Production Enhancement Network (OPEN) that is taking an exciting new approach to researching biological and physical processes affecting survival in cod larvae. The position at Dalhousie involves physical and biological measurements at sea and tracking larval cohorts on the Scotian Shelf. The position at McGill involves assessing phenotypic traits as survival probability indicators in relation to larval morphology, larval age, and developmental stage. Experience in physical/biological interactions, and computing skills are required. Salary is commensurate with experience. Send curriculum vitae, a copy of your publications, and three references (address) and telephone numbers to: Dr. C. T. Taggart, Oceanography, Dalhousie University, Centre for Marine Science, S. Bahl, 4111-15014-73, Fax. 902-494-8894, or W. D. C. Leggett, Biology, McGill University, Montreal, PQ, Canada, H3A 10D. Telephone: 514-398-6211. In accord with Canadian Immigration policy, this advertisement is directed primarily to Canadian citizens or permanent residents.

M.D./Ph.D. FELLOWSHIPS. The Medical University of South Carolina (MUSC) offers stipends ($10,000 to $15,000) for studies leading to combined M.D./Ph.D. degrees for graduate students in basic sciences and/or molecular and cellular biology/medicine. Contact: Director, Medical Student Training Program, College of Graduate Studies, Medical University of South Carolina, Charleston, SC 29425.

QUANTITATIVE ECOLOGIST. The Smithsonian Institution has a career opening for an ecological modeler to join an interdisciplinary basic research team conducting long-term studies of marine and terrestrial systems across a geographic region. Experience in developing and testing models, managing computer systems, the equivalent of a Ph.D., and research publications are required. Salary is $37,500. Applicants must be U.S. citizens. Submit cover letter, curriculum vitae, and names of three professional references before 15 April 1991 to: Dr. David L. Correll, Smithsonian Environmental Research Center, P.O. Box 28, Edgewater, MD 21097. An Affirmative Action/Equal Opportunity Employer.

TOXICOLOGIST

Office of Toxic Substances, Washington State Department of Health (WSDOH), invites applications for a full-time research position. The successful candidate will develop, implement, and maintain computer systems, and able to communicate with the public required. The primary area of expertise is hazardous waste site evaluation, but experience in the areas of pesticides, air and water quality, and in the design and testing of two publications, and three letters of recommendation to: Carl Sagersten, Department of Health, MS LD-11, P.O. Box 44169, Olympia, WA 98504. Position open 1 January 1991. WSDOH is an Equal Opportunity Employer.

ILLINOIS LEGISLATIVE SCIENCE INTERN

Sangamon State University invites applications from graduates of science or engineering programs (baccalaureate, master's, doctorate) to participate in month science internships beginning 1 October 1991 as part of the Illinois Legislative Staff Internship Program. The science intern will be assigned to one of the offices of the Illinois Legislative Unit which provides legislators with information and research about policy issues. Science interns receive $1450 per month in compensation. Interested students should send curricu- hum vitae by 8 March to: Dr. Kent Redfield, Coordinator, Illinois Legislative Staff Internship Program, Sangamon State University, Springfield, IL 62704-9243.

MIGRATORY BIRD RESEARCH. The Smithsonian Institution is seeking to fill three professional positions for the newly established Smithsonian Migratory Bird Center. The biomedical approaches to biodiversity and conservation of landbirds and waterfowl that breed in eastern North America and breed or winter in the Caribbean and South America. Field experience in one or more of these regions is required and knowledge of Spanish is desirable. Positions are available for two avian ecologists (Ph.D., postdoctoral experience, and relevant publications required); salary $31,000 to $44,000 and one habitat or conservation analyst (master's or Ph.D. and relevant experience required; salary $26,000 to $37,000). Applicants must be U.S. citizens. Submit cover letter, curriculum vitae, and names of three references before 1 April 1991 to: Dr. James F. Laake, Smithsonian Environmental Research Center, P.O. Box 28, Edgewater, MD 21097. An Affirmative Action/Equal Opportunity Employer.

IMMUNOGENETICS. Applications are invited for a postdoctoral position in a clinical laboratory supporting four major transplant programs. Responsibilities include technical direction of histocompatibility testing, analysis of DNA and development of a research program with experience in transplantation or transfusion medicine. Position dependent on experience. Applicants must have a broad background in molecular biology. The successful candidate will be expected to attract extramural funding for their research program after 18 months. Applications consisting of a letter of interest, curriculum vitae, and names of three professional references should be sent by 15 February 1991 to: Immunogenetics Search Committee, Human Genetics Division, BIDMC, Box 21, 921 Terry Avenue, Seattle, WA 98104. Equal Opportunity/Affirmative Action Employer.
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ENVIRONMENTAL HEALTH

The National Research Council (NRC) is seeking a staff scientist and two senior program officers for its Board on Environmental Studies and Toxicology.

STAFF SCIENTIST. Responsibilities include coordinating, planning, and administering research grants, conducting independent research, overseeing contract proposals, planning and coordinating, representing the NRC before Congressional committees, and giving presentations, preparing reports, and writing articles. Required: Ph.D. or equivalent and at least 2 years of experience in toxicology, risk assessment, epidemiology, environmental health science, or related field. Must be able to work efficiently and independently, and to maintain effective working relationships with scientists in various disciplines.

SUPPORT OFFICERS. Responsibilities include providing substantial assistance to the staff scientist or to two senior program officers. Required: A.B. or M.A. degree and at least 2 years of experience in research (e.g., environmental health, microbiology, immunology). Send curriculum vitae and salary requirements to: Box P.383, National Research Council, 2101 Constitution Avenue, N.W., Washington, DC 20418. Equal Opportunity Employer.

COGNITIVE NEUROSCIENTIST AND/OR NEUROPSYCHOLOGIST with interests in neurobiology of aging and dementia, to set up an independent research program in collaboration with the Alzheimer’s Disease Research Center (ADRC) of Los Angeles and Orange counties and the USC Program in Neural Information and Behavioral Sciences (NIBS). Tenure track, with opportunities for independent investigator status. Primary appointment in the Andrus Gerontology Center and affiliaions with other departments as appropriate (e.g., neurology, social work). Send curriculum vitae to: Dr. Caleb E. Finch, USC, Andrus Gerontology Center, 3715 McClintock Avenue, Los Angeles, CA 90065-0191. Equal Opportunity Employer.

NEUROSCIENTIST. Position available immediately for Ph.D. or M.D. applicant with immunology or pathology background to study mechanisms related to brain tumor complement to improve ongoing research in interleukin, blood-brain-barrier, and glioma. Level of faculty position and salary ($30,000–$50,000) will be negotiable. Send curriculum vitae, a brief statement of current and future research interests, and three letters of reference to: Marianna Wiznarska, Ph.D., Department of Biomedical Sciences, University of South Florida, MDC Box 55, Tampa, FL 33612. The University of South Florida is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST

The Division of Pediatric Surgery, Department of Surgery, Ohio State University College of Medicine at the Columbus Children’s Hospital, is presently conducting a search for a research scientist. A position is available for a Ph.D. in biochemistry with at least 2 years of postdoctoral experience in polypeptide growth factor research, to study the nature and role of polypeptide growth factors in the female reproductive tract. Experience in protein characterization and purification (HPLC, FPLC, PAGE, Western blotting), cell culture, radio-receptor assays, DNA synthesis assays, and cell proliferation assays is essential. Applicants should have a strong interest in the endocrinology and cell biology of reproduction.

Forward curriculum vitae to: Olga Johannsson, M.D., Department of Surgery, Ohio State University, N747 Doan Hall, 410 West 10th Avenue, Columbus, OH 43210.

The Division of Pediatric Surgery, Department of Surgery, College of Medicine at the Columbus Children’s Hospital, is an Equal Opportunity/Affirmative Action Employer.
Health Scientist Administrator
in Diabetes

The National Institute of Diabetes and Digestive and Kidney Diseases seeks a biomedical scientist (Ph.D., M.D. or equiv.) with a record of research accomplishment and excellent communication skills to serve as Health Science Administrator (GS-12, -13 or -14) within the Diabetes Research Program. The position involves the programmatic management of grants and contracts in diabetes research. In addition, this position will have responsibility for the development of a new program of research support in the specific area of diabetes in minority populations. Therefore, this position will require enhanced sensitivity to the specific health-related problems of these populations. Emphasis will be placed on selecting a candidate who has demonstrated experience relevant to these populations and their concerns. The position is available at a salary range of $35,825 to $65,444 per annum. Physicians may be eligible for an additional allowance. Please submit an Application for Federal Employment (SF-171) and/or CV and bibliography as soon as possible:

Robert E. Silverman, M.D., Ph.D.
Chief, Diabetes Programs Branch
NIDDK
National Institutes of Health
Westwood Building, Room 626
Bethesda, MD 20892
(301) 496-7888

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1/4, 1/2 or full only.

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STAFF SCIENTIST
Experimental Therapeutics Division
THE ONTARIO CANCER INSTITUTE/ THE PRINCESS MARGARET HOSPITAL

Applications are invited for the position of Staff Scientist to join a group of investigators who are involved in experimental studies relating to cancer treatment including experimental radiotherapeutics, experimental chemotherapy, radiotherapy, metastases and DNA repair. Experimental Therapeutics is a Division of the Research Department of O.C.C./M H which currently has 30 full-time staff scientists in five research divisions and has a graduate student training program involving about 75 students associated with the Department of Medical Biophysics at the level of Assistant Professor.

The successful candidate will have an interest in the above experimental studies and possess expertise in molecular biology. The candidate will be expected to establish a research program within the Experimental Therapeutics Division and attract peer-reviewed research funds. This position will involve appointment to the Senior Scientific Staff of the Institute and candidates should be eligible for appointment to the Department of Medical Biophysics at the level of Assistant Professor.

Persons interested in this position should apply in writing to: Dr. G.F. Whitmore, Head, Experimental Therapeutics Division, Research Department, The Ontario Cancer Institute, 500 Sherbourne Street, Toronto, Ontario M4X 1K9, enclosing curriculum vitae, a statement of their expertise, current interests, proposed research program, and the names of three referees willing to provide references.

In accordance with the Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. In accordance with the Employment Equity Policy of the University of Toronto and The Ontario Cancer Institute, applications are invited from all qualified women and men.
POSITIONS OPEN

ASSISTANT RESEARCH SCIENTIST

Applications are invited for a postdoctoral assistant research scientist position to study the micro- and molecular biology of *Bartonella baciliformis*, a pathogenic parasite of human red cells including capillary endothelium (Bost et al., 1986) with an emphasis on (i) identification of the receptor on human red cells and bacterial proteins involved in binding and entry. Send curriculum vitae and names of references to: Dr. Garrett M. Itaber, Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine, College Station, TX 77843-1114.

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RESEARCH ASSOCIATE. A position is available at the Biophysics Department, Roswell Park Cancer Institute (RPCI), to: Dr. Norman, 547, Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine, College Station, TX 77843-1114. $25,000.

RESEARCH ASSOCIATE POSITIONS

Immediate openings for four research associate positions for biomedical-related research in the areas of molecular biology, biochemistry, and organic chemistry. Qualified applicants must have a Ph.D. in the field of biomedical research or a related field. Salary commensurate with experience. Send applications with references to: Dr. Jeanine Stewart, Clark Atlanta University, RCMI Program, Box 68, James P. Brawley Drive at Fair Street, Atlanta, Ga 30314. Clark Atlanta University is an Equal Opportunity Employer.

RESEARCH ASSOCIATE IN MOLECULAR ENDOCRINOLOGY

Project to determine the mechanism by which estrogen receptor (ER) binding to regulatory element sequences (EREs) induces nearby promoters. Experiments involve measuring ER-ERE interaction in vitro and ER regulation of transcription from plasmids transfected into cultured cells. See PNAS 85, 1038 (1988). Biochemistry 28, 8671 (1989). Send curriculum vitae and references to: Dr. Russell Helf and Robert Barbana, Department of Biochemistry, Box 607, University of Rochester, Rochester, NY 14627. The University is an Equal Opportunity Employer.

RESEARCH ASSOCIATE. Harvard Medical School, Department of Cellular and Molecular Physiology. Scientist for research project concerned with the evolution of the gene for involucrin, an epidermal protein. The experiments to be carried out will require familiarity with mammalian cell culture, construction of genomic libraries, gene cloning and sequencing, analysis of nucleotide sequences. Note: Please send a cover letter and résumé to: Denise Zakhe, Harvard Medical School, Department of Cellular and Molecular Physiology, 25 Shattuck Street, Boston, MA 02115. Minimum requirements: Doctoral degree with a minimum of 3 years of experience in molecular and cellular biology, and a strong publication record in molecular evolution.

ANNOUNCEMENTS

RESEARCH GRANTS

As part of its efforts to encourage the utilization of alternatives to traditional animal use, the National Institute of Environmental Health Sciences is funding the publication of a newsletter to communicate ongoing research, product safety testing, and educational demonstrations. The Demeter Fund is soliciting research proposals to develop such methods. Funding of up to $100,000 each is available. Applications support individual research efforts at U.S. universities and research institutions. The deadline for applications is 15 April 1991 with recipients to be announced by 1 May 1991. Funds may not be used for salary supplements of the principal investigator(s). For further information and application instructions contact: The Demeter Fund, Suite 204 Noble Plaza, 801 Old York Road, Jenkintown, PA 19046-1685. Telephone: 215-887-0816 or FAX: 215-887-2088.

COURSES AND TRAINING

POSTDOCTORAL TRAINING PROGRAM

CELLULAR AND MOLECULAR ENDOCRINOLOGY

Postdoctoral traineeships are available starting in 1991 in an NIH-supported program. Trainees with a Ph.D. or M.D. degree having U.S. citizenship or permanent residence in the United States will participate in a research program in which to 14 faculty from the Biochemistry Department and the Division of Biomedical Sciences on the campus of the University of California, Riverside. The purpose of the program is to provide for research training at the postdoctoral level in the following five major areas of focus: (i) insulin, related growth factors, and their actions; (ii) endocrinology of vitamin D, calcium and bone cell metabolism; (iii) production of actions of lymphokines, hematopoietic growth factors and cytokines; (iv) molecular and cell biology of hormone synthesis and action; and (v) transduce and intracellular events in hormone action. For detailed information and application forms, write to: Dr. Anthony W. Norman, Program Director Division of Biomedical Sciences University of California 28112 Telephone: 714-787-5705

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CAREER CHANGE OPPORTUNITY

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

POSTDOCTORAL TRAINING PROGRAM BIOLOGY AND CHEMISTRY OF EXTRACELLULAR MATRIX

Postdoctoral traineeships are available in an NIH-supported program which is in its twelfth year. Trainees will participate in an interdisciplinary program encompassing twenty faculty members in four departments. Trainees are encouraged to select a major preceptor in the areas of interest which include cellular, molecular, and developmental aspects of the extracellular matrix. Please contact: Dr. Marvin L. Tanzer Department of Biostructure and Function University of Connecticut Health Center Farmington, CT 06080

GRADUATE ASSISTANTSHIP IN MOLECULAR BIOLOGY AND BIOCHEMISTRY. Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, Connecticut. Departmental research interests emphasize regulation of gene expression in embryogenesis and development; heat-shock response and cellular regulation of iron metabolism; protein–nuclear acid interactions; protein structure, function, and design; DNA replication; structure and function of chromosomal proteins; yeast genes homologous to protein kinase oncogenes; chemokine receptors at phosphorous and mechanisms of action of thiamine and ascorbic acid; magnetic resonance spectroscopy and computer modeling. All students receive tuition remission, good fringe and dependency allowances, if applicable. Opportunities to teach. Write: Director Graduate Admissions, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06457 or telephone: 203-347-9411, ext. 2796.

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Deadline for applications June 1, 1991.

Individuals interested should send a curriculum vitae to:

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Director
Cancer Center of Medical College of Wisconsin
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RESEARCH ASSOCIATE POSITIONS. A Bachelor's degree or equivalent and relevant work experience in neurobiology, including neuronal cell culture or neurohistochemistry, are necessary.

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