SCIENCE publishes each Friday, except the last Friday of the month, on issue dates. Preprint advertising is accepted only with the understanding that the advertisement will be distributed among institutions on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right to determine, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date, or before; copies accepted only in writing.

POLICY: All classified ads will be edited and typeset according to SCIENCE style guidelines. NO ABBREVIATIONS. Advertisements stated in ad must be at least 2 weeks after date of publication.

CLASSIFICATION: SCIENCE publishes line classified ads under the headings: Positions Open, Employment Agencies, Situations Wanted, Courses and Training, Meetings, Announcements, and Massachusetts Classifieds. All classifieds are screened; however, SCIENCE reserves the right to decline classification if it believes it may be misleading to readers.

SUBMISSION: Prepare double-spaced typewritten ad copy on a separate piece of paper, list 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
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-326-0816

RATE: $1.41 per line. $40 minimum per week. One line equals 52 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy on a 52-character line and include any desired heading on 32-character line. Each line of heading, one line of body of ad and any additional lines are considered to be 150 characters. The cost is $4.00 per 150 characters, including the first 150 characters. The estimate is based on the number of characters typed.

PAYPREPayment DISCOUNT: A 3% cash discount is granted on all paypreps. Payment must be made in U.S. dollars by checks drawn on U.S. banks is required for all foreign payments.

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

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production cost for boxed ad or logo. For boxed ads, one line equals 48 characters and spaces; two additional full lines will be added to cost of ad to allow for top and bottom logos. Boxes are billed according to number of lines.

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 (1/8 page and larger) and all Marketline listings of available products and services, contact:
Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-362-3759

RESPONSE TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and send a single copy of the resume for consideration. SCIENCE encourages applicants to include a statement of their commitment to non-discrimination policies, visa requirements, and cultural differences in the country advertising for employees.

To reply to a blander: Use the address correspondence to:
Box (given number)
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ASSISTANT PROFESSOR. A new position will become available in January 1991 for a qualified individual who has demonstrated ability to conduct productive basic research in one of the following areas of modern neuroscience: immunology; membrane structure and function, control of gene expression, cytoplasmic mechanisms. Minimal qualification will include a Ph.D. and post-doctoral experience. Applications consisting of curriculum vitae, a summary of research accomplishments, and five letters of recommendation must be received by 15 January 1991. Three letters of reference should be sent to: Dr. Ewa Lotzóvi, Chief, Section of Natural Immunity, Department of General Surgery, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 18, Houston, TX 77030. We are an Equal Opportunity/ Affirmative Action Employer.

CELL BIOLOGY

A tenure-track appointment at the ASSISTANT PROFESSOR level is available as of September 1991. Qualifications include a Ph.D. and postdoctoral experience. The successful candidate will be expected to teach undergraduate courses in cell biology, either developmental biology or genetics; teach general biology; develop and maintain an independent research program; and participate in our genetic engineering option. Training of graduate students at the M.S. level and ability to develop an expansion of our faculty are expected. Search will continue until position is filled. Please send your curriculum vitae, transcripts, reprints, statement of teaching interests and experience, research plans, and three letters of reference to: Dan W. Searl, Department of Biological Sciences, Eastern Michigan University, Ypsilanti, MI 48197. We are an Equal Opportunity/ Affirmative Action Employer.

WEST VIRGINIA STATE COLLEGE ASSISTANT PROFESSOR ORGANIC CHEMISTRY

Recent Ph.D. in organic chemistry for tenure-track position in ACS-certified Chemistry Department of a four-year state college. Preference given to teaching undergraduate organic chemistry lecture and laboratory courses to first-generation, nontraditional, and minority students and developing undergraduate research programs. Begins 7 January 1991. Salary and rank negotiable. Excellent benefits. Send letter of interest, complete resume, and three letters of recommendation by 31 December 1990 to: Dr. Barbara J. Oden Vice President for Academic Affairs West Virginia State College Institute, WV 25112
An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR, BIOCHEMISTRY. The Department of Biochemistry at the University of Vermont seeks to fill a full-time (12-month appoint- ment), tenure-track faculty position at the level of assistant professor. Applicants with a commitment to graduate and medical student education, collaborative research interactions with university faculty, and a vigorous independent research program are encouraged to apply. Individuals with postdoctoral research experience and an interest in one of the following three subject areas will be given special consideration: (i) cellular receptors; (ii) gene regulation and development, emphasis on DNA:protein interactions; or (iii) mammalian virology. The department, located within the College of Medicine, has strong interactions with allied departments and is an active participant in institutional teaching and research programs in the areas of cancer biology, cell and molecular biology, thrombosis and hemostasis, pulmonary biology, and biotechnology. The 425-acre main campus of the University of Vermont, located on Lake Champlain, between the New York Adirondack and Vermont Green Mountains, and resides within a community of about 80,000 people. Interested individuals should send a resume, a description of research interests, and three letters of reference to: Dr. George L. Long, Department of Biochemistry, College of Medicine, University of Vermont, Burlington, VT 05405. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply. Applications will be accepted until 1 March 1991. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

APPLICATION DEADLINES

Northern Illinois University has a tenure-track ASSISTANT PROFESSOR POSITION IN NEUROSCIENCE AND BEHAVIOR for fall 1991. Candidates should be interested in modern neuroscience methods, including animal models, to address issues relevant to behavior. In addition to training doctoral students, candidates will help to establish a new laboratory course. By 1 January 1991, send curriculum vitae, three recommendations, and graduate transcript to: Dr. Steve Scherago, Department of Psychology, Northern Illinois University, DeKalb, IL 60115. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR IMMUNOLOGIST

The Division of Biology at Kansas State University (KSU) has a tenure-track position available at the assistant professor level effective August 1991. Applications are invited from investigators with postdoctoral experience in immunology. The division has a strong research program in microbiology and immunology, excellent facilities, and a distinguished faculty with several millions of dollars in extramural grants. The successful candidate will be expected to establish a vigorous and creative scholarly program, and to participate in our undergraduate and graduate instruction. Candidates should apply by 7 January 1991 by submitting curriculum vitae, a brief description of research plans, and having three letters of reference sent to: Terry C. Johnson, Director Division of Biology, Ackert Hall Manhattan, KS 66506—4901

COGNITIVE NEUROSCIENTIST. The Department of Psychology and Center for Cognitive Science of the Ohio State University anticipate a position in cognitive neuroscience at the ASSISTANT PROFESSOR level (excellent candidates may apply). Applicants should have an established research program in the neurophysiological/cellular correlates of learning, memory, and thought processes. Preference is given to research that explores a specific interface with a university-wide neuroscience Ph.D. program and the Center for Cognitive Science. Applicants should submit curriculum vitae, letters of recommendation, and three letters of reference to: Dr. Martin F. Sarter, Cognitive Neuroscience Search Committee, Department of Psychology, 481436 Winton Hall, Ohio State University, Columbus, OH 43210 by 15 January 1991. Ohio State is an Equal Opportunity Employer.

DEPARTMENT OF GEOLOGY UNIVERSITY OF TORONTO ISOPTOE GEOLOGIST

Applications are invited for a tenure-track position in the field of isotope geochemistry, primarily in environmental earth sciences. Requirements include a Ph.D. degree or equivalent and established ability in research. Teaching is required at an advanced level in the field of specialty and in other areas of geology at a more general level.

The appointment is at the ASSISTANT PROFESSOR level and will begin in July 1991. Salary commensurate with experience and qualifications. Present (1990–91) salary range for this level is $35,000 to $59,500.

This is one of a two-year position, the other being in the field of environmental earth sciences. The department now occupies a new building in the Earth Sciences Centre, conveniently located in the sciences building adjacent to the 

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Limnology, Michigan, East Lansing, Aug. 19-11. Minority candidates are especially encouraged to apply. We are an Equal Opportunity/Affirmative Action Employer.

PLANT ECOLOGY/ ENVIRONMENTAL PLANT BIOLOGY

The Department of Biology, West Virginia University, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level for fall 1991. The department offers B.S., M.S. and Ph.D. programs in Biology that provide training in plant and animal biology at all levels, including limnology (aqua-ecology) and research on the ecology of inland waters. Send resume, names of three references, brief description of research and teaching plans. Deadline is 1 February 1991 to: R. J. F. Smith, Biology Department, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0. Telephone: 306-966-4400. FAX: 306-966-4461. Electronic mail: SMTHER@SASK.USASK.CA. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Saskatchewan is committed to the principle of Employment Equity.

ASSISTANT PROFESSOR, LIMNOLGY. Tenure-track position available 1 July 1991, subject to budgetary confirmation. Ph.D. and strong commitment to research and teaching required. Duties including limnology (aquatic ecology) and research on the ecology of inland waters. Send resume, names of three references, brief description of research and teaching plans by 1 February 1991 to: R. J. F. Smith, Biology Department, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0. Telephone: 306-966-4400. FAX: 306-966-4461. Electronic mail: SMTHER@SASK.USASK.CA. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Saskatchewan is committed to the principle of Employment Equity.

ASSISTANT PROFESSOR INVERTEBRATE PALEOBIOLGY AND/or MARINE MICROPALEONTOLOGY

The Department of Earth and Planetary Sciences at Harvard University seeks to fill a position in the area of invertebrate paleobiology and/or marine micropaleontology at the assistant professor level. The incumbent will be expected to develop a research program in this subject area and to teach at the undergraduate and graduate levels in the areas of paleobiology and stratig-raphy. Applicants should have a strong background in invertebrate paleontology and experience in research and teaching. A Ph.D. degree is essential, and practical experience with T.E.M. is desirable. Three letters of recommendation should be sent to: Professor James J. McCarthy, Chair, Paleobiology Search Committee, MCZ, Harvard University, 26 Oxford Street, Cambridge, MA 02138. All materials should be received by 9 January 1991.

SCIENCE, VOL. 250
**Scientific Programming Manager**

Immunex Corporation, a leading biotechnology company focused on the research, development, marketing and manufacturing of immunochemical therapeutic products, is seeking qualified candidates to join our Research and Development Group in the new position of Scientific Programming Manager.

The successful candidate will have primary responsibility for designing, developing, evaluating and modifying computer programs for the solution of scientific problems. Other responsibilities will include supervising scientific programmers, allocating programming resources and interfacing with the Research and Development user community. This person will also work closely with our Information Systems Group.

Candidates must have a BSAMS in Computer Science or a related discipline and a minimum of 5 years programming experience using FORTRAN, Pascal, and C on VAXVAXI or UNIX. Strong knowledge of SAS, RS1 and Oracle is required. Excellent communication skills and previous managerial experience is essential.

Immunex Corporation offers a fast paced, stimulating environment, competitive salaries and an excellent benefits package. For consideration, please send or fax your resume to:

**IMMUNE CORPORATION Attn: Human Resources Dept. 51 University Street, Seattle, WA 98110. Fax: (206) 567-0606**

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**ENDOWED PROFESSORSHIP IN ECOLOGY**

**ARIZONA STATE UNIVERSITY**

The Department of Zoology solicits applications for the **ULLMAN PROFESSORSHIP IN ECOLOGY**, with emphasis in the field of Conservation Biology. Applicants should have established reputations for scholarly research, teaching, and public service. Appointment will be at the tenured, full professor level, with an annual research stipend. Submit a letter of application, curriculum vitae, and names and addresses of three references to:

**Dr. W. L. Minckley, Search Committee Chair Virginia M. Ullman Professorship Department of Zoology Arizona State University Tempe, Arizona 85287-1501 Telephone 602-965-3571**

Application deadline is January 15, 1991, or the 15th of each month thereafter until filled.

An Equal Opportunity Affirmative Action Employer

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**RESEARCH DIRECTOR**

**EISAI LONDON RESEARCH LABORATORIES LIMITED**

Over £50 million is being invested during the next 15 years by Eisai, a major Japanese pharmaceutical company, to build a new research laboratory within the campus of University College London. Planned to open in the Autumn of 1992, the Eisai London Research Laboratories (ELL) will carry out research in the neuro-science area, with emphasis on the molecular and cell biology of neurodegenerative disorders. Applications for the Research Director are now invited.

Applicants must be neuroscientists who have demonstrated their ability to carry out innovative research and have experience of team leadership and management in either an academic or industrial environment. The successful candidate, who will be chosen in consultation with the Scientific Advisory Board (Professors G Burstock, E Barnard, D Brown and M Raff), will have a major role in the establishment of the research laboratories and thereafter will organize and lead his/her own research group and three others, each to be headed by senior scientists, and will liaise with company research groups internationally.

University College London was chosen as the site for this research centre because of its strength in the Neurosciences and integration of the ELL scientific staff into the academic research community will be encouraged at all levels. The Research Director will have an honorary appointment with an academic department at the appropriate level and be expected to continue to publish research and contribute to international meetings.

The starting salary will be individually negotiable within fairly wide limits and will reflect the seniority of this position. There will also be the usual package of benefits expected of a major company, including assistance with relocation.

Further details are available on request. Applications, including a comprehensive curriculum vitae, to reach: Mr Y Tsuchiya, Eisai London Research Laboratories Ltd., Darwin Building, University College London, Gower Street, London WC1E 6BT, by 20th December.
POSITIONS OPEN

Applications are invited for anesthetist/physiologist (one position), water quality/limnologist (two positions) ASSISTANT/ASSOCIATE/PROFESSOR, tenure-track faculty. Candidates should have a Ph.D., evidence of excellence in teaching, and willingness to develop a research program in aquatic environmental science. The appointment will be effective 1 July 1991 at the level of ASSISTANT, ASSOCIATE, OR FULL PROFESSOR. The department anticipates expansion in this area and seeks applications for a developmental geneticist/developmental biologist. Applicants should send curriculum vitae, a statement of research interests and four letters of recommendation by 31 January 1991.

Chairman, Search Committee, Department of Biological Sciences, Marine, University of North Carolina, Chapel Hill, NC 27599-3280

The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

BIOLOGY: ASSISTANT PROFESSOR. West Chester University's Department of Biology seeks applicants for a tenure-track assistant professor to teach undergraduate courses in human anatomy and physiology (nonmajors), introductory cell physiology, general introductory biology, and graduate courses. Ph.D. in physiology or related fields; an active research program is expected. The department is particularly interested in candidates with strengths in animal physiology at the cell or organismic levels of organization, curricular vitae, all college transcripts, and at least three letters of reference postmarked by 28 January 1991 to: Dr. Frank K. C. Biology, West Chester University, West Chester, PA 19385. Affirmative Action/Affirmative Opportunity Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF MINNESOTA, MORRIS ECOLOGIST

ASSISTANT PROFESSOR, tenured track, at the University of Minnesota, Morris, beginning 16 September 1991. Candidates would be expected to (i) teach lecture and laboratory courses in the areas of general ecology, population ecology, and advanced botany; and (ii) share in the teaching of introductory courses in biology, and (iii) participate in research of a one-quarter (or equivalent) interdisciplinary course common to all freshmen. Candidates should have completed a Ph.D. by 16 September 1991, and at least 10 years of teaching experience (graduate TA is acceptable), and should demonstrate the promise of excellence in teaching as well as being able to establish a research program in field ecology that can involve undergraduate students. Candidates should submit an application by 15 January 1991, including résumé, transcripts, a statement of teaching and research interests, and three letters of reference to: Dr. James M. Olson, Chair, Division of Science and Mathematics, University of Minnesota—Morris, Morris, MN 56270.

UNIVERSITY OF MONTANA, MISSOULA ECOLOGIST

ASSISTANT PROFESSOR, beginning 1 September 1991. Applicants must be prepared to teach courses in general botany, genetics, and ecology, and to engage in research. The successful candidate must possess a Ph.D. in ecology and a strong commitment to excellence in research and teaching. Candidates should have a strong background in population biology, and at least one year of experience teaching at the college level. Send résumé, copies of publications, and three letters of reference to: Dr. John H. Nygren, Department of Zoology, University of Montana, Missoula, MT 59812.

UNIVERSITY OF MONTANA, MISSOULA ECOLOGIST

ASSISTANT PROFESSOR, beginning 1 September 1991. Applicants must be prepared to teach courses in general botany, genetics, and ecology, and to engage in research. The successful candidate must possess a Ph.D. in ecology and a strong commitment to excellence in research and teaching. Candidates should have a strong background in population biology, and at least one year of experience teaching at the college level. Send résumé, copies of publications, and three letters of reference to: Dr. John H. Nygren, Department of Zoology, University of Montana, Missoula, MT 59812.

MOLECULAR OR DEVELOPMENTAL BIOLOGY

The University of Calgary Faculty of Medicine invites applications for faculty positions at the ASSISTANT PROFESSOR level or higher. Qualifications include a Ph.D. and/or M.D., a minimum of 2 years of postdoctoral experience, and a proven record of excellence in research in the general area of eukaryotic gene regulation and the molecular biology of development. The selected candidates must be successful for salary and establishment funding by application to the Alberta Heritage Foundation for Medical Research, and will have 75% of time protected for research. Rank and remuneration will be appropriate for qualifications and experience. Please arrange to have three letters of reference sent directly, and please submit detailed curriculum vitae, a synopsis of research interests, and two reprints of recent publications, by 1 February 1991.

Dr. Gordon H. Dixon
Chairman, Search Committee
Department of Medical Biochemistry
University of Calgary
3330 Hospital Drive, N.W.
Calgary, Alberta, Canada T2N 4N1

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 women, men, visible minorities, and persons with disabilities.

POSITIONS OPEN

GENETICIST. The Department of Biology, University of North Carolina, Chapel Hill, seeks a geneticist at the associate professor level. The position will be effective 1 July 1991 at the level of ASSISTANT, ASSOCIATE, OR FULL PROFESSOR. The department anticipates expansion in this area and seeks applications for a developmental geneticist/developmental biologist. Applicants should send curriculum vitae, a statement of research interests and four letters of recommendation by 31 January 1991.

Chairman, Search Committee
Department of Biology
University of North Carolina
Chapel Hill, NC 27599-3280

The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

DEPARTMENT OF GEOLOGY
UNIVERSITY OF TORONTO
ENVIROMNTAL EARTH SCIENTIST

The University of Toronto Geology Department plans to enhance its commitment to and resources in the area of environmental earth sciences. Two tenure-track positions are now being offered in this area; one in isotope geochemistry (advertised separately), and one in the broader area of environmental geosciences. Applications are invited for this second position, which could have any of a number of areas of emphasis, such as organic geochemistry, sedimentary geochemistry, sedimentology, mineralogy, geodynamics, hydrology, paleoclimatology, stratigraphy, physical, biological, or chemical processes in sedimentary environments, surface chemistry, or biochemical processes. Applications are encouraged from scientists in any area who feel they can contribute to research and teaching in the environmental earth sciences will be considered. Requirements include a Ph.D. degree or equivalent and established ability in research. Teaching at an advanced level in the field of specialization and at a more general level in other areas of geology is also required. The appointment is at the ASSISTANT PROFESSOR level and will begin in July 1991. Salary commensurate with experience and qualifications. Present (1990-91) salary range for this level is $35,000 to $59,500.

Letters of application, together with a résumé containing a description of current and proposed research activities, should be sent to: Professor John Westgate, Chairman, Department of Geology, Earth Sciences Centre, University of Toronto, 5 King's College Road, Toronto, Ontario, Canada, M5S 1A7. Fax: 416-978-3938. Applicants should also arrange for letters of reference from three referees to be sent directly to the same address by 1 March 1991.

The University of Toronto encourages both women and men to apply.

In accordance with Canadian immigration requirements, this advertisement is directed to qualified Canadian citizens and permanent residents (landed immigrants) of Canada.

Tenure-track ASSISTANT/ASSOCIATE PROFESSOR POSITIONS. Must have Ph.D. requirements in a discipline of biology completed by 1 September 1991. Cell physiologist: Must have strong background in molecular cell biology and training and research experience in plant cell and tissue culture. Plant molecular biologist: Duties: teaching general biology, senior level cell physiology, and graduate level courses; supervising a graduate student; must have college teaching experience. Duties: teaching undergraduate courses in general biology for teacher preparation program, general education, and biology majors; teaching upper division and graduate courses in applicants' area of specialization as needed; coordinating teacher preparation program; supervising graduate research. Reference given to applicants and will be accepted upon interview. Experience teaching K-12 or working in teacher preparation programs and with training in evolutionary biology, biometrics, or computer science preferred. Must have at least one year of experience teaching. Send curriculum vitae, description of research interests, and three letters of recommendation to: Chair, Department of Biological Sciences, California State University, Sacramento, CA 95819-6077. Closing date: 23 January 1991.

The department is committed to improving faculty diversity. Women, underrepresented ethnic minorities, disabled individuals, and Vietnam-era veterans are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

Waseca State University

MOLECULAR BIOLOGIST

The Institute of Chemical Toxicology, Wayne State University, is seeking to fill tenure-track faculty positions at the ASSOCIATE/FULL PROFESSOR level in the area of eukaryotic molecular biology. Preference will be given to applicants interested in regulation of gene expression which include those involved in oncogenes, growth factors, toxins, and in the molecular/cellular effects of toxic substances and carcinogens (e.g., DNA repair). Applicants in any other areas of eukaryotic molecular biology will be given serious consideration. The Institute of Chemical Toxicology offers a research-intensive environment and faculty are expected to develop vigorous, independent, extramurally funded research programs. Excellent new laboratories, equipment, support facilities, and research personnel are available. Candidates should have a Ph.D., M.D., or D.V.M. degree and a strong track record in research. Send curriculum vitae and a brief description of research interests to:

Dr. Raymond F. Novak
Institute of Chemical Toxicology
Wayne State University
2727 Cass Street, Room 70609
Detroit, MI 48201

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

DEVELOPMENTAL PSYCHOLOGIST. The Colorado College seeks applications for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR beginning fall 1991. Candidates should have a Ph.D. in psychology and a commitment to undergraduate teaching and research. Teaching responsibilities include human development, research methods, courses in the general psychology curriculum. All candidates must have an active interest in research on human development. The Colorado College offers a contribution plan which is committed to excellence in teaching and research. Salary is competitive. Applicants should send curriculum vitae, a statement of research interest, and three letters of recommendation to: J. Horner, Search Committee, Department of Psychology, The Colorado College, Colorado Springs, CO 80903. Application deadline: 28 January 1991. The College is an Equal Opportunity Employer and strongly encourages women and minorities to apply.

GENETICIST

AND MEDICAL MICROBIOLOGIST

The Biology and Microbiology Department at the University of Wisconsin-Oshkosh is seeking applicants for two entry level tenure-track ASSISTANT PROFESSOR positions, one in medical microbiologist, beginning 1 September 1991.

• GENETICIST: Teaching responsibilities in basic genetics and share teaching of introductory biology. Ph.D. in one area of eukaryotic genetics required. Postdoctoral and teaching experience desirable. Candidate is expected to develop a research program, supervise master's theses, and pursue extramural funding. Candidate may develop a course in area of interest.

• MEDICAL MICROBIOLOGIST: Teaching responsibilities include medical microbiology and immunology. Ph.D. in microbiology with specialty in medical microbiology and strong background in immunology is required. Candidate will maintain close liaison with medical technology program. Postdoctoral and teaching experience desirable. Candidate is expected to develop a research program, supervise master's theses, and pursue extramural funding.

The university has a unique Faculty Development Program for limited funding of research and to provide matching funds for extramural grants. Screening of applicants begins 15 January 1991 and will continue until the position is filled. Send letter of application, résumé, three current letters of recommendation, and official transcripts to: M. A. Rount, Chair, Department of Biology and Microbiology, University of Wisconsin-Oshkosh, Oshkosh, WI 54901. The University of Wisconsin-Oshkosh is an Affirmative Action/Equal Opportunity Employer.
THE UNIVERSITY OF CHICAGO
PLANT MOLECULAR BIOLOGY

The Department of Molecular Genetics and Cell Biology invites applications for new faculty positions in the field of plant molecular biology at the assistant professor level, however exceptional candidates at any level will be considered. We are especially interested in candidates using molecular genetic approaches to understanding plant development, but the quality of the research program will be the most important consideration. Please submit application and include three letters of recommendation by January 31, 1991 to:

Dr. Anthony P. Mahowald
Chairman
Department of Molecular Genetics & Cell Biology

THE UNIVERSITY OF CHICAGO
920 E. 58th Street
Chicago, IL 60637

An Affirmative Action Equal Opportunity Employer
(Women and members of minority groups are strongly encouraged to apply)

EXECUTIVE OFFICER
COUNCIL ON UNDERGRADUATE RESEARCH

Applicants, nominations or inquiries are invited for the position of Executive Officer of the Council on Undergraduate Research. CUR is a national society dedicated to the advancement of scientific research by students and faculty at primarily undergraduate colleges and universities. Membership is open to anyone with such an interest. CUR is currently organized into biology, chemistry, geology, mathematical sciences, physics/astonomy and at-large sections governed by 122 Councilors elected by the membership. CUR publishes a quarterly newsletter and directories of research at undergraduate institutions, holds semi-annual conferences for science faculty, administrators, and representatives of federal funding agencies and private foundations, sponsors undergraduate summer research fellowships, and provides consultants to undergraduate science departments. The Executive Officer will coordinate the activities of the volunteer councilors, administer all CUR programs, and maintain liaisons with other scientific organizations. Candidates should have both organizational talent and experience with scientific research at primarily undergraduate institutions. The initial appointment is for a three year term, renewable after review. The salary is competitive with academic salaries at professional levels. For further information, write to Professor Stuart B. Crampton, President, Council on Undergraduate Research, Department of Physics, Williams College, Williamstown, MA 01267.

Senior Scientist
Junior Scientist
Postdoctoral Fellow

The Molecular Pharmacology and Biochemistry Department is seeking three individuals with B.S., M.S., or Ph.D. degrees or equivalent to join a multidisciplinary research team studying the structure-function relationships of therapeutically important receptors and signal transduction systems. Candidate should have a strong background in cloning and recombinant DNA techniques, protein expression and purification, or biochemical and pharmacological characterization of membrane proteins. An interest in endocrine and CNS biochemistry and a demonstrated ability for creative and independent basic research are desirable.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume with the names of three references to Human Resources Manager, Merck & Co., P.O. 2000, AD453, Rahway, New Jersey 07065, R80-A3.

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New Lab Service Department
1515 Broadway
New York, NY 10036

Faculty Positions In

MOLECULAR NEUROBIOLOGY

Applications are invited for tenure track faculty positions at the Assistant Professor level. Successful candidates will occupy new laboratories on the neurobiology floor of the Ohio State Biotechnology Center and hold an academic appointment in the College of Biological Sciences, Medicine or Pharmacy. Applicants should demonstrate exceptional potential to develop strong research programs that apply recombinant DNA methodology to address significant problems in neurobiology. The Ohio State University has made a major commitment to establish an outstanding interdisciplinary program in molecular neurobiology that is reflected by the quality research facilities and highly competitive start-up funds and salary that accompany these faculty positions. The Ohio State University is the flagship institution of the State higher education system. It is located in Columbus, the state capital, a growing, yet highly affordable metropolitan area of about 1.3 million people that was recently named by Newsweek magazine as one of the country's top 10 cities.

Applicants should submit a curriculum vitae, statement of research plan and names, addresses, and telephone numbers of three references by January 15, 1991 to: Dr. Anthony Young, Chairperson, Molecular Neurobiology Search Committee, Ohio State Biotechnology Center, 207 Rightmire Hall, 1060 Cermack Rd., Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

THE OHIO STATE UNIVERSITY
ASSISTANT/ASSOCIATE PROFESSOR, DEPARTMENT OF GEOGRAPHY AND EARTH RESOURCES

Half-teaching, half-research position as assistant or associate professor jointly in the Department of Geography and Earth Resources and the Department of Geological Sciences at Utah State University. Tenure-track, academic year position. Ph.D. in meteorology or closely related field, established record of scholarship in meso-scale meteorology. Conduct research linking the atmosphere to surface hydrologic and biosphere processes at various scales, collaborate with people working in these areas, help develop a multidisciplinary weather research lab, develop own research program in applied meteorology, and teach two or three courses. Send curriculum vitae and names of four references to: Search Committee, Department of Geography and Earth Resources, Utah State University, Logan, UT 84322-5420. Deadline for application is January 1, 1991. Review of applications will begin January 1, 1991, and continue until an appointment is made. Utah State University is an Equal Opportunity/Affirmative Action Employer.
Our ideas created an industry. Yours will expand it.

Applied Biosystems, a major supplier of systems and tools for biotechnology research, is having a remarkable impact on the advancement of scientific knowledge. As we grow, so does our need for top talent to join our team. Consider these opportunities in our expanding San Jose facility.

**SCIENTIFIC/RESEARCH OPPORTUNITIES**

**Biochemical Scientist**—Work in innovative R&D group engaged in developing capillary electrophoresis applications. PhD in Biochemistry or related discipline and up to 6 years of post-doctoral experience. Protein analysis preferred. Ref. #0748.

**Scientist**—Organic chemistry expertise in consumables development. MS/PhD plus 2–5 years of industrial experience including derivitization and modification of organic and inorganic surfaces, devising crosslinking methods of polymers, as well as overseeing scale-up of these processes. Ref. #0760.

**Associate Scientist/HPLC**—Instrument development. BS/MS in Chemistry/Biochemistry with minimum of 4 years of hands-on biochemistry-related HPLC experience. Ref. #0749.

**Associate Scientist/HPEC**—Develop protein separation methods using gel electrophoresis. PhD with 1–3 years of post-doctoral experience (or an MS with 5 years of experience) with extensive background in protein electrophoresis and purification. Ref. #0747.

**Research Associate**—BS in Chemistry/Chemical Engineering and up to 3 years of industrial experience. Devise and execute chemical and functional experiments on bioseparations products. Ref. #0759.

We offer a competitive salary and generous benefits package. For these San Jose positions, please send your resume, indicating Reference Code, to: Applied Biosystems, Inc., Human Resources, 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

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**Molecular Biologists**

**Du Pont Merck Pharmaceuticals** has 2 challenging openings in the Molecular Biology Department in its Receptor Biology Group.

**Molecular Biology Scientist**

Candidate must have experience in a full range of recombinant DNA techniques to perform research on the cloning, expression and structure-function relationships of cellular receptors. The successful candidate should also possess an MS degree in Molecular Biology, Biology or Biochemistry with three or more years of laboratory experience and a demonstrated ability to conduct independent research. Experience with protein electrophoresis, immunochemical techniques and tissue culture is helpful. Exceptionally qualified candidates with BS degrees will also be considered.

**Postdoctoral Visiting Scientist**

Candidate will focus on purification, cloning, structure-function relationships and signal transduction mechanisms of cellular receptors. Applicants should have a PhD in Biochemistry, Immunology or Molecular Biology and publications dealing with receptor isolation, cloning and/or functional analysis. The appointment is for a period of one year, renewable for a second year upon mutual agreement.

**Consider** an innovative company that has strong concern for both its employees and our environment. Consider Du Pont. You’ll find a stimulating environment at our Wilmington, Delaware location which offers a wide range of academic, cultural and recreational activities. Qualified candidates for both positions should send a curriculum vitae and three letters of recommendation, indicating position of interest to: Du Pont Human Resources, Room PSS-0031, Wilmington, DE 19898.

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An Equal Opportunity Employer
POSITIONS OPEN

MOLECULAR BIOLOGY

The Institute of Arctic Biology and the Department of Biology and Wildlife have an opening for a tenure-track position in molecular biology at the ASSISTANT OR ASSOCIATE PROFESSOR level, commencing 1 August 1991. Applicants should have an earned Ph.D. in an appropriate discipline and postdoctoral research experience. The position involves research in biogeochemistry and molecular biology at the University of Alaska Fairbanks. The successful candidate will be expected to establish a vigorous, independent research program in eukaryotic gene regulation that will attract outside funding. Teaching responsibilities include one graduate-level course in eukaryotic gene regulation and one undergraduate course per year. The program will provide significant start-up funds. Please submit a letter of application, curriculum vitae, statement of research and teaching interests, relevant reprints, and three letters of reference by 15 January 1991 to: Molecular Biology Search Committee, Dr. John W. Keller, Chair, Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK 99775-0180. Women and minorities are specifically encouraged to apply. The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIR, DIVISION OF ENOMACROSCOPIC (15 full-time) ME 50% research/graduate education position, anthropods of agricultural importance. Requires Ph.D. in entomology or related field; U.S. citizen or permanent resident. Deadline for applications is 1 April 1991. Applications will be considered 1 April 1991 and may be extended until a qualified candidate is selected. Contact: J. F. Mccaffrey, Division Chair Search Committee, Department of Plant, Soil, and Entomological Services, University of Idaho, Moscow, ID 83843. Telephone: 208-885-6277. An Equal Opportunity/Affirmative Action Employer.

DEPARTMENTAL CHAIR. The Department of Biological Sciences at the University of Alabama in Huntsville invites applications for the position of chairperson. The department has expertise in microbiology, particularly immunology or other fields complementary to biotechnology. We seek candidates who have significant administrative and teaching experience, and who seek to develop programs in their area of expertise and in areas of promise to the department. The chairperson must have a Ph.D. in microbiology or related field and have the ability to attract extramural funding. We will be particularly interested in candidates who have served as department chairpersons at other institutions. The position is open until filled. U.S. citizenship or permanent resident status is required. Applications should be sent to: J. J. Mackey, Chair, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL 35899. Women and minority candidates are strongly encouraged to apply. UAH is an Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON. Department of Pathology. The Albert Einstein College of Medicine and Montefiore Medical Center seek a physician-scientist to chair their Department of Pathology. The chairperson of this unified department must provide leadership to a research-oriented faculty, to the teaching of medical and graduate students, residents and fellows, and to clinical activities in anatomic pathology at four teaching hospitals. Applications and nominations should be sent to: Dr. Dominick Purpura, Dean, Pathology Search Committee, Attention: Sara E. Baker, Office of the Dean, College of Medicine, Belfer Building, Room 302, Jack and Pearl Rannick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

CYTOGENETICIST. Vivigen Laboratory, located in scenic Santa Fe, has an opening for a ABMG Board-certified or Board-eligible cytogeneticist. LABORATORY DIRECTOR, or a cytogeneticist (15 full-time) Ph.D. or M.D. degree with a strong interest in clinical service. This position offers an excellent salary and benefits package. Send curriculum vitae and three references to: Kirk A. M.D. Vivigen, Inc. 2400 O'Shaughnessy Way Santa Fe, NM 87505

POSITIONS OPEN

CHAIRPERSON, PHYSIOLOGY. The Medical College of Pennsylvania invites applications and nominations for the position of Chairperson, Department of Physiology. The department has recently been formed and has been targeted for significant expansion in personnel and space. The department is interested in supporting the development of a nationally recognized research and training program. The medical college seeks a distinguished educator with an established extramurally productive research program and ability to secure external funding, along with excellence as a teacher and leader. Cell or membrane physiology and molecular biology are areas of particular interest. A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent to: Alan S. Bellack, Ph.D., Chair, Physiology Search Committee, Department of Psychiatry, The Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY/CELL BIOLOGY

Applications are invited for two tenure-track or tenured positions as ASSISTANT TO FULL PROFESSOR levels. Available 1 September 1991. Candidates should have a Ph.D., M.D., or equivalent degree, and have demonstrated the capacity to develop independent research and attract extramural funding. All areas of specialization are encouraged to apply, although special consideration will be given to those interested in cellular mechanisms involved in membrane function and dysfunction, neural plasticity, and regeneration. The candidates will be expected to participate in teaching of tissue biology and neuroanatomical courses. Applicants should submit curriculum vitae, a brief statement of research interests, representative reprints, and names of three references by 31 January 1991 to: Dr. George D. Pappas, Search Committee, Department of Anatomy and Cell Biology, University of Illinois, College of Medicine at Chicago, P.O. Box 6998 (MC 512), Chicago, IL 60680. The University of Illinois is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

CHAIRPERSON

Department of Physiology, School of Medicine, University of North Dakota. We invite applications from individuals holding a Ph.D. and/or M.D. degree with an outstanding record of extramurally funded research, a strong teaching record, and enthusiasm for medical student and graduate student education. We are seeking candidates from a wide spectrum of disciplines and research areas within physiology. In addition to several strong areas in the basic sciences, we have a laboratory in the medical school, opportunities exist for interactions with the U.S. Department of Agriculture Human Nutrition Laboratory and the College of Agriculture and Life Sciences. The salary for the position will be competitive. Review of applications will begin 15 February 1991 and continue until the position is filled. Interested applicants should send curriculum vitae, a summary of research goals, and at least three letters of reference to: Dr. Edward C. Carlson, Physiology Search Committee Chair, Department of Anatomy and Cell Biology, School of Medicine, University of North Dakota, Grand Forks, ND 58202. The university is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS BIOMEDICAL ENGINEERING

The University of Southern California invites applications for tenure-track faculty positions in the areas of bioinstrumentations/bioelectronics; biosensors; cardiovascular, neural, and neuromuscular systems; medical imaging and signal processing; cellular bioengineering; or laser applications in medicine. Duties will include both teaching and research. Candidates must be committed to excellence in both teaching and research and be able to integrate with our existing faculty. Applications and nominations should be sent to: Vasili Z. Marmarelos, Chair, Department of Biomedical Engineering, University of Southern California, Los Angeles, CA 90089-1451

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

VICE CHANCELLOR FOR ACADEMIC ADMINISTRATION

UNIVERSITY OF MINNESOTA, DULUTH

The University of Minnesota, Duluth, invites nominations and applications for the position of vice chancellor for academic administration.

The position: The vice chancellor for academic administration exercises broad decision-making authority over the instructional program. Five school and college deans report to the academic vice chancellor, who provides leadership for the comprehensive governance and policy development body. As senior officer in charge of staffing the instructional program, the academic vice chancellor plays a significant role in organizing, retaining, tenure, and promotion of faculty. The vice chancellor has discretion over the instructional budget. The successful applicant should have an earned doctorate, J.D., or M.P.A. in a relevant field of study. Experience: a strong record of teaching, research, and scholarly publication; and administrative experience with an understanding of budgetary planning. The candidate must also have a commitment to Affirmative Action, affirmative educational opportunities, and cultural diversity; to the mission of a public co-educational university; and to shared governance. A minimum of 5 years of professional experience is required. The candidate must qualify for a professorship with tenure at the time of administrative appointment. Nominations and applications should be received and postmarked no later than 1 February 1991. The position is available in mid-summer of 1991. Salary is dependent on qualifications and experience. Women and ethnic minorities are especially encouraged to apply. A complete application includes the following: a letter of interest; curriculum vitae, and five letters of reference. All letters of reference should be received by 15 February 1991. Please send nominations and applications to: Francia Guldbranden, Ph.D., D.Sc., Chair Search Committee for Vice Chancellor for Academic Administration University of Minnesota Duluth Department of Instructional Science 221 Bohannon Hall, 10 University Drive Duluth, MN 55812

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

CHEMISTS—ENGINEERS

PHYSICISTS—ENGINEERS—OPERATIONS RESEARCH SPECIALISTS INTERNATIONAL RELATIONS SPECIALISTS STATISTICAL ECONOMISTS GEOPHYSICISTS

This is an opportunity for scholars in these and other related disciplines to use their expertise to help the Arms Control and Disarmament Agency (ACDA) accomplish its mission of promoting nuclear arms control treaties that will increase world security. During the 1991–92 academic year scholars could participate in such ACDA activities as devising treaty provisions that permit adequate treaty verification, evaluating data relating to compliance with treaties in force, evaluating the effect of treaty proposals on the strategic and conventional military balance, interagency discussions on arms control policy, and international negotiations on arms control treaties. Visiting scholars must be citizens of the United States and on the faculty of a recognized institution of higher learning. For information, telephone: 202-647-6959 or write: Foster Bellow Visiting Scholars Program, Operations Research, Room 5726, ACDA, 320 21st Street, N.W., Washington, DC 20451. Applications deadline: 31 January 1992. William C. Foster Fellows Visiting Scholars Program U.S. Arms Control and Disarmament Agency An Equal Opportunity Employer.

TOXICOLOGIST/PATHOLOGIST

Large international drug company seeks a toxicologist/pathologist to manage its southern European laboratory. In-plant and contract research industry experience required at a management level as are substantial scientific/professional credentials. Attractive salary, fringe benefits and career development prospects are available. Box 140, SCIENCE.
AFFINITIVE er, Department goals, curriculum with a solid completed three letters of recommendation College, of must general individual students, mentoring to faculty science, computer Frequent the 1991-92 L Committed Applications are Dr. Ralph E. Millis, The University of Maryland College, College Park, MD 20742-1642. Affirmative Action/Equal Opportunity Employer.

FACTOR SYMPTOMS OF PLANT PHYSIOLOGICAL ECOLOGY SAINT MARY’S COLLEGE OF CALIFORNIA Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level to begin with the 1991-92 academic year. Qualifications include Ph.D. with a broad background in biology and research specialization in plant physiological ecology. Applicants must demonstrate excellence in teaching and commitment to an active research program involving undergraduates. Teaching responsibilities include plant physiology, general ecology, and introductory biology. Saint Mary’s College is a Catholic coeducational liberal arts college of over 2600 students (2100 undergraduates) located in the San Francisco Bay Area. We seek faculty with a solid liberal arts background who evidence a love of ideas, strong school and dedicated service. Send curriculum vitae, statement of teaching and research goals, transcripts (undergraduate and graduate), and three letters of recommendation to: Dr. J. F. Lester, Department of Biology, P.O. Box 4507, Saint Mary's College, Moraga, CA 94575. Consideration of completed applications will begin 1 April 1991 and continue until the position is filled.

Committed to diversity and an Equal Opportunity Employer, the college encourages women, people of color, disabled individuals, veterans, and Christian Brothers to apply.

THE RESEARCH INSTITUTE OF SCRIPPS CLINIC Ph.D. Programs •Macromolecular and Cellular Structure and Chemistry •Chemistry The Research Institute of Scripps Clinic will admit 5-10 highly qualified students for the fall of 1991 to begin studies for a Ph.D. program integrating cellular biology, biochemistry, and chemistry. Qualified applicants will be asked to visit the Research Institute for an interview. Financial support will be provided to all accepted students.

Individuals interested in applying to either graduate program should send a letter describing their scientific interests and goals, as well as a resume of their educational background to:

Dean of Graduate Studies, M86 The Research Institute of Scripps Clinic 10666 North Torrey Pines Road La Jolla, CA 92037

These graduate programs are authorized by the California State Department of Education.

An Equal Opportunity Employer

SCIRPS CLINIC AND RESEARCH FOUNDATION

UNIQUE CAREER CHANGE OPPORTUNITY Ph.D.s & Doctoral Professionals THE College of Osteopathic Medicine and Surgery in Des Moines, Iowa, offers an accelerated three-year program leading to the Doctor of Osteopathy (D.O.) degree. Doctors of Osteopathy are fully licensed physicians who practice all aspects of medicine in every state. Your doctoral degree in biological sciences or medical sciences qualifies you to be considered for admission to this accelerated program.

The Graduate Professional Education Program (GPEP) features:

• Three years of didactic and clinical training.
• Significant reduction in total tuition and living costs compared to standard four-year medical programs.
• Financial assistance to qualified students.
• Self-paced learning through independent study.

For more information and an application contact:

Admissions Office — GPEP Program University of Osteopathic Medicine and Health Sciences 3200 Grand Avenue Des Moines, IA 50312 (515) 271-1452

National Heart, Lung, and Blood Institute (NHLBI) National Institutes of Health POSTDOCTORAL AND TENURE TRACK POSITIONS are available in the Laboratory of Molecular Cardiology to study the function of muscle and expression of contractile proteins in muscle and nonmuscle cells. This laboratory is composed of two groups, that of Dr. Robert J. Adelstein and that of Dr. James R. Sellers.

We presently have vacancies available for two positions:

Postdoctoral Fellow — we are seeking a candidate to study the interaction of smooth muscle and nonmuscle myosin with actin.

Senior Postdoctoral Fellow — we are seeking someone with at least three years of postdoctoral experience in the techniques of molecular genetics who is interested in applying these techniques to the study of the contractile proteins or related proteins.

Interested candidates should forward a current C.V. and bibliography along with names and addresses of two references to either Dr. Sellers or Dr. Adelstein at: Laboratory of Molecular Cardiology, National Institutes of Health, Building 10, Room 8N-202, 9000 Rockville Pike, Bethesda, MD 20892, Telephone (301) 496-1865, Fax (301) 402-1542. NIH is an Equal Opportunity Employer.

THE UNIVERSITY OF CHICAGO IMMUNOLOGIST The Committee on Immunology and the Department of Surgery at the University of Chicago are seeking applicants for at least two FACULTY POSITIONS (one junior and one senior position). We are committed to developing strong programs in the molecular aspects of the immunology and transplantation. We are seeking outstanding individuals who are using the approaches of molecular biology or cell physiology to examine basic mechanisms of antigen recognition, cell signaling events, or regulation of transplant rejection. Existing related research programs in the Committee on Immunology and The Department of Surgery are focused on immunological and genetic aspects of T lymphocyte activation and regulation, modulation of transplantation rejection responses, and the structural aspects of T cell receptor/MHC antigen recognition.

Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise.

Letters of application, including curriculum vitae, bibliography, a brief statement indicating research interests, and the names of three references, should be sent to: Dr. Jeffery A. Bluette. Chair, Committee on Immunology, The University of Chicago, Box 424, 5841 South Maryland Avenue, Chicago, IL 60637. An Equal Opportunity Employer.
FACULTY POSITION IN CELL BIOLOGY

The Department of Anatomy and Cell Biology and the Center for Reproductive Sciences at Columbia University, College of Physicians and Surgeons, invites applications for a tenured-track position at the ASSISTANT PROFESSOR level. The applicant should have considerable promise and demonstrated achievement in cell biology, with potential to develop and/or reproduction. Areas of particular interest include mechanisms of growth factor action, differentiation, and pattern formation. The successful applicant will be expected to establish an outstanding, extramurally funded research program and to contribute to the cell biological education of students. Candidates for this position should send curriculum vitae and a description of their proposed research program, and should arrange to have three letters of recommendation sent to:

Faculty Search Committee, Department of Anatomy and Cell Biology, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action Employer.

FACULTY POSITION IN MOLECULAR GENETICS

The Department of Immunology/Microbiology at Rush Medical College invites applications for a faculty position in molecular genetics. Applicants must hold a Ph.D. and have postdoctoral training. Preference will be given to applicants in viral or bacterial genetics, but strong applicants in other areas of molecular genetics will also be considered. The department includes active graduate program and vigorous research groups in molecular virology, immunology, and a developing focus on Borrelia. Individuals with teaching experience in a large teaching hospital/medical center. Salary and academic rank will be dependent upon experience and qualifications. Please send a resume with a description of research interests and three letters of recommendation by 1 March 1991 to:

Mark Peeples, Ph.D.
Head, Recruiting Committee
Department of Immunology/Microbiology
Rush Medical College
1653 West Congress Parkway
Chicago, IL 60612

Rush is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITIONS

The Zoology Department of Oklahoma State University anticipates replacing two retiring faculty beginning August 1991. Ph.D. required; postdoctoral experience preferred. The department emphasizes environmental toxicology, molecular biology, genetics, and cell biology to solve problems relevant to molecular biology. An essential requirement is an innovative research program that complements programs within the department and the medical school. Research areas of interest to the department include: mechanisms of hormone, oncogene, growth factor and neurotransmitter actions; regulation of gene expression and differentiation; molecular basis of disease; structure, function and regulation of receptors and channels; second messengers and protein phosphorylation; posttranslational modification and intracellular targeting. Candidates should submit curriculum vitae and a statement of research objectives and plans. Letters from three references should be submitted on behalf of the candidates. All materials should be sent to: Ms. Anna Cloft, Academic Affairs Office, College of Science, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

FACULTY POSITIONS

DPARTMENT OF MOLECULAR PATHOLOGY

Applications are invited for tenured-track positions in the Department of Biochemistry at the rank of ASSISTANT OR ASSOCIATE PROFESSOR. We seek exceptional candidates having excellent training and records of accomplishments at the postdoctoral level in the area of eukaryotic molecular biology. Preference will be given to scientists who demonstrate the potential to develop vigorous research programs focusing upon animals or humans. Excellent support facilities for the molecular and life sciences are available to all Purdue faculty. The individuals selected for these positions will participate in the educational program of the department which encompasses undergraduate, graduate, and medical curricula.

Curriculum vitae, names and addresses of three individuals willing to serve as references, and a two-page summary of research interests are required for an application. The screening of applications will continue until the positions are filled.

Biochemistry Search Committee
Department of Biochemistry

Purdue University
West Lafayette, IN 47907-6799

Purdue University is an Affirmative Action/Equal Opportunity Employer.

CASTLETON STATE COLLEGE

PHYSICAL SCIENTIST

The Department of Natural Science at Castleton State College, Castleton, VT, invites applications for a TENURE-TRACK POSITION in the natural sciences to commence September 1991. Rank and salary based on degrees and experience. Excellent fringe benefits. Applicants with the ability to teach physical science courses including general chemistry and geology will be given preference. Excellence in teaching is a primary qualification. The successful applicant will be a dynamic educator with a Ph.D. in chemistry or geology. Starting date is 22 August 1991. Send letter of application, resumes, and three letters of recommendation to:

Dr. Joseph T. Mark, Academic Dean's Office
Castleton State College, Castleton, VT 05738.


CSC is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS

COLLEGE OF PUBLIC HEALTH

The College of Public Health of the University of Oklahoma is embarking on an expanded mission and seeks to recruit the following faculty members:

- Biostatistics and epidemiology (open rank)
- Health administration (health policy)
- Social sciences and health behavior
- Environmental health science (open rank)
- Associate Dean of the College

A statement of interest and curriculum vitae should be submitted by 31 January 1991 to:

Bailus Walker, Jr., Ph.D., M.P.H.
Dean, College of Public Health
Health Sciences Center
P.O. Box 26901
Oklahoma City, OK 73190
Telephone: 405-271-2232

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

AVAILABLE IN GENETICS

The Department of Molecular Genetics, Biochemistry, and Microbiology is committed to a major expansion of its faculty, currently numbering 26 tenure line members. We currently have strong research programs in a variety of areas, and are the lead department in an NHLBI-sponsored Program of Excellence in Molecular Biology of the Heart and Lung. One of our openings is for a human geneticist. The appointment can be at any level and generous space and start-up funds will be provided. The department has a separate postdoctoral program, and maintains core facilities in cell culture, DNA synthesis and sequencing, and production of transgenic mice. All of these factors contribute to an excellent research atmosphere.

Interested applicants should submit curriculum vitae, brief description of anticipated research, and the names of three qualified references to:

Jerry B. Lingrel, Ph.D.
Professor and Chair
Department of Molecular Genetics, Biochemistry, and Microbiology

University of Cincinnati College of Medicine
231 Bethesda Avenue
Cincinnati, OH 45267-0524

TENURE-TRACK BIOLOGY INSTRUCTOR

Mansfield University, Mansfield, Pennsylvania, invites applications for a tenure-track biology instructor. The master's degree is preferred, with college teaching experience in microbiology, general biology, and human anatomy and physiology. Responsibilities are primarily teaching of undergraduate laboratories, secondarily lecturing in introductory biology. An additional responsibility will be in the physical sciences department. Salary commensurate with education and experience. Position begins fall semester 1991. Interested candidates should submit a letter of intent, résumé, transcripts, and three current (1989-90) letters of recommendation to: Position F-94, Human Resources Department, G-1 Alumni Hall, Mansfield University, Mansfield, PA 16933 (postmarked) for materials is 15 February 1991. Please refer to Position F-94, Mansfield University is an Affirmative Action Employer and encourages the applications of women, minorities, and the handicapped.
POSTDOCTORAL POSITION

Merck Sharp & Dohme Research Laboratories is offering a postdoctoral position in the department of Genetic and Cellular Toxicology.

Applicants should have a background in molecular biology and genetics, preferably with an interest in cytogenetics. The department has a staff of about 40, including 15 doctoral level, with 5 post-docs. Current studies are in: basic research in mechanisms of malignancy and altered gene expression, including molecular analysis of mutation and DNA arrangements in tumors; molecular and cytogenetic studies of mechanisms of DNA damage and chromosome aberrations, and development of test systems for safety evaluation of drug candidates.

Excellent salary and benefit programs accompany this position at our West Point Laboratories 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to:

Personnel Manager
Ad #C-37
Research Personnel, WP42-2
Merck Sharp & Dohme Research Laboratories
West Point, PA 19486

EEO/AA/VH/Employer

Natural Product Sciences, Inc. is a rapidly growing company developing novel pharmaceutical and agrochemical products based on natural product leads. With a strong in-house research program comprising chemistry, biology, and molecular biology and major industrial partners in both pharmaceuticals and agrochemicals, Natural Product Sciences is a leader in the natural products field.

As part of the continuing expansion of its research efforts, NPS now has openings at both the Associate (B.A./M.S.) and Senior Scientist (Ph.D.) levels. We are specifically looking for highly motivated scientists with experience in one or more of the following areas:

MOLECULAR BIOLOGY—Expression cloning using Xenopus oocytes; construction of genomic libraries; expression in prokaryotic and eukaryotic systems.

CELL PHYSIOLOGY—Assessment of receptor-dependent transmembrane signaling mechanisms and intracellular signals.

BIOCHEMISTRY—Production and use of monoclonal antibodies for receptor isolation.

CELL BIOLOGY—Measurement of intracellular ions in single cells using fluorimetric indicators; tissue culture; immunohistochemistry.

ELECTROPHYSIOLOGY—Extracellular and intracellular recording in brain slices and/or patch-clamp.

Natural Product Sciences offers competitive salaries, benefits, and the opportunity for equity ownership. Our location on the western slope of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative and important science.

Please send curriculum vitae and names and addresses of three references to: Director of Personnel, Natural Product Sciences, Inc., 420 Chipeta Way, Salt Lake City, Utah 84108. Natural Product Sciences is an equal opportunity employer.

Ms. Patricia Fagan
R. W. Johnson Pharmaceutical Research Institute
4246 Sorrento Valley Blvd.
San Diego, CA 92121

An Equal Opportunity Employer
POSTDOCTORAL POSITION. Postdoctoral appointment available immediately. The laboratory of Dr. A. M. Tartakoff at the Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.

Applicants should have a Ph.D. and/or M.D. in any discipline that includes experience in (i) the design and execution of experiments using peptide agonists and antagonists; (ii) computer analysis of sequence and structural data; and (iii) the use of recombinant DNA expression systems for protein production. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: A. M. Tartakoff, Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.

POSTDOCTORAL POSITION. At Oak Ridge National Laboratory (ORNL) available to develop (i) methods to use stable isotopes in DNA sequencing and (ii) an associated method, very high resolution gen- 

eral technology. Background in physical or analytical chem- 


POSTDOCTORAL POSITION. Available to study cognitive-neuromotor effects of psychotropic drugs. Involves assessment of relationship of pharmacodynamics to pharmakoetics. Background in drug analysis desirable. Send curriculum vitae and names of three references to: Everett H. Ellinwood, Jr., M.D., Box 3870, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. At the State University of New York at Albany available to study the pharmacology of opioid peptides. Emphasis will be on (i) the use of recombinant DNA expression systems for protein production and (ii) computer analysis of sequence and structural data. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262.

POSTDOCTORAL POSITION. At the University of Wisconsin-Madison available to study the pharmacology of opioid peptides. Emphasis will be on (i) the use of recombinant DNA expression systems for protein production and (ii) computer analysis of sequence and structural data. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262.

POSTDOCTORAL POSITION. Available immediately. The laboratory of Dr. A. M. Tartakoff at the Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.

Applicants should have a Ph.D. and/or M.D. in any discipline that includes experience in (i) the design and execution of experiments using peptide agonists and antagonists; (ii) computer analysis of sequence and structural data; and (iii) the use of recombinant DNA expression systems for protein production. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: A. M. Tartakoff, Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.

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POSTDOCTORAL POSITION. At the University of Wisconsin-Madison available to study the pharmacology of opioid peptides. Emphasis will be on (i) the use of recombinant DNA expression systems for protein production and (ii) computer analysis of sequence and structural data. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Colin M. F. Smith, Research Professor, Department of Pharmacology, University of Colorado Health Sciences Center, Denver, CO 80262.

POSTDOCTORAL POSITION. Available immediately. The laboratory of Dr. A. M. Tartakoff at the Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.

Applicants should have a Ph.D. and/or M.D. in any discipline that includes experience in (i) the design and execution of experiments using peptide agonists and antagonists; (ii) computer analysis of sequence and structural data; and (iii) the use of recombinant DNA expression systems for protein production. Salary will be commensurate with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: A. M. Tartakoff, Case Western Reserve University School of Medicine, 10950 Euclid Avenue, Cleveland, OH 44106.
BS/MS Scientists
Solve the equation for success—in Molecular Genetics.

Pfizer Inc, a dynamic leader in the healthcare industry, is committed to continuing its remarkable growth in research. Our Molecular Genetics Research Department currently has openings for Research Scientists in the following areas:

Image Analysis/Molecular Pharmacology
Requires a computer science-oriented Biologist to analyze and interpret experiments examining the effects of potential therapeutic agents on metabolic pathways in various mammalian cells. You will analyze images obtained from radio-labelled two-dimensional gels using dedicated software packages. A BS in Biology with proficiency in UNIX-based computers, UNIX system administration and statistical analysis is desirable. You must also be experienced with electrophoresis computer analysis software and possess strong oral/written communication skills.

Protein Biochemistry
You will join a group of highly motivated researchers developing biotechnology applications for the advancement of drug discovery and medicinal research programs. A BS or MS in Biochemistry or related discipline is required plus 1-2 years of laboratory research experience in Protein Chemistry. HPLC/FPLC experience in protein isolation/characterization and familiarity with computer interfaced instrumentation are essential. Must be willing to develop expertise in one or more of the following areas: Structural Analysis, Receptor Binding Assays and/or Immunochemical Assays.

Gene Cloning/Molecular Biology
You will help construct cDNA libraries and use innovative screening strategies to identify novel genes. These positions require a blend of skills and experience in contemporary molecular biology techniques (mRNA isolation, cDNA preparation, PCR technology); experience in differential and expression cloning is desirable. At least two years laboratory work is essential.

Transgenic Technology
Pfizer is developing a transgenic animal group and seeks candidates with proven experience in various techniques for generating transgenic mice. A background in transgenic animal production is required, and knowledge of embryonal stem cell technology is desirable.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacations, educational assistance, savings, investment and pension plans, relocation assistance and more.

To learn how you can be part of the future at Pfizer, send your resume with indication of area desired, to: Kym Goddu, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

Pfizer
Central Research

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ENVIRONMENTAL PATHOLOGY/TOXICOLOGY. NRSA-supported POSTDOCTORAL POSITIONS available in laboratories. Emphasis on cellular and molecular effects (mutagenesis, neurotoxicity, biotransformation) of toxic chemicals (especially trace metals, aromatic amines, some respiratory epithelial injury) and behavioral teratology. Inquiries to: Dr. N. K. Mottet, Program Director, Department of Pathology, SM-30, University of Washington, Seattle, WA 98195. NRSA requires U.S. citizenship or permanent residency. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP
The Cellular and Molecular Biology Group in the Life Sciences Division of the Los Alamos National Laboratory is seeking postdoctoral associates for basic cellular and molecular biological research in the Pulmonary Biology and Toxicology Program. Current ongoing research areas include mechanisms of acute lung injury, mechanisms of lung repair and pulmonary fibrogenesis, and lung defense mechanisms with emphasis on pulmonary macrophages and pulmonary macrophage populations. Individuals with a strong background in pulmonary cell biology and/or molecular biology are encouraged to apply. Applicants should have a Ph.D. degree in biology, biochemistry, or related field. For application information, contact: Dr. Linda Saif, Food Animal Health Research Program, Ohio Agricultural Research and Development Center, Ohio State University, Wooster, OH 44691.

POSTDOCTORAL POSITIONS OPEN
A limited number of POSTDOCTORAL FELLOWSHIPS are available in 1991; selections will be made 15 April 1991 for research in marine sciences, aquaculture, coastal and environmental sciences, biomedical aspects of marine research, and ocean engineering. Stipends are $22,540 for the annual appointment. Specify area of research interest and submit letter to: Kathy Morton, Postdoctoral Program, Harbor Branch Institution, Inc., 5600 Old Dixie Highway, Fort Pierce, FL 34946. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP
Available immediately for 2 years to conduct research on the molecular mechanisms of cholinergic deficit and abnormal memory function in aging and Alzheimer's disease. Preference will be given to individuals with experience in molecular biology and protein chemistry or monoclonal antibody production. Applicants must have a Ph.D. or M.D. degree. Please send curriculum vitae with statement of research interest and three letters of references to: Dr. Frank Peng, Department of Pathology, University of Missouri—Kansas City School of Medicine, Truman Medical Center, 2301 Holmes Street, Kansas City, MO 64108. University of Missouri—Kansas City is an Equal Opportunity Employer.

UNIVERSITY OF MANITOBA
DEPARTMENT OF MEDICAL MICROBIOLOGY

RESEARCH ASSOCIATE
Position available immediately in the Department of Medical Microbiology-Chemical Control Laboratory to develop monoclonal antibodies against recombinant proteins of HIV. A Ph.D. in biology or immunology with experience in virology, immunology, or molecular biology is required. The position is funded for 2 years. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, aboriginal peoples, and persons with disabilities. The University provides a smoke-free environment. Priority consideration will be given to Canadian citizens and permanent residents.

Send curriculum vitae and names of three references to: Dr. Magdy Dawood, Department of Medical Microbiology, Faculty of Medicine, University of Manitoba, 780 Williams Avenue, Winnipeg, Manitoba, Canada R3E 0W3.


BIOCHEMIST/MICROBIOLOGIST. To lead proposed research on aging and survival of organisms. Experience in hydrogenases, protein purification, microbial techniques, metalloproteins, and enzyme immobilization is required. Salary $34,920. For full consideration, send letter of interest and three letters of reference to: Dr. W. D. Chapman, Chair, Department of Critical Care Medicine, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. An Equal Employment Opportunity Institution.
BE A SCIENCE JOURNALIST FOR A SUMMER!

The American Association for the Advancement of Science (AAAS) invites students in the natural and social sciences and engineering to apply for the 1991 MASS MEDIA SCIENCE AND ENGINEERING FELLOWS PROGRAM. Students majoring in English, journalism, or other nontechnical fields are not eligible for these fellowships.

Fellows work as reporters, researchers, production assistants, and script consultants for 10 weeks during the summer at host television and radio stations, newspapers and news magazines across the country. Fellows have an opportunity to (1) observe and participate in the process by which events and ideas become news, (2) increase their understanding of editorial decision making, (3) enhance the media's coverage of science-related issues, and (4) develop skill in conveying to the public a better understanding of and appreciation for science and technology.

Fellows receive a $350 weekly stipend and have all travel expenses paid. Deadline for receipt of applications is February 1, 1991. *Minorities and persons with disabilities are especially encouraged to apply.*

For information and application, write:
Mass Media Science and Engineering Fellows Program
AAAS
1333 I Street, NW
Washington, DC 20005

MacARTHUR FOUNDATION POSTDOCTORAL TRAINEESHIPS IN AGING

The MacArthur Foundation Research Program on Successful Aging invites applications from graduates of advanced degree programs to conduct research on a collaborative interdisciplinary study of aging in seven sites.

Trainees will work with a team of investigators working on longitudinal studies of elderly and will have a unique opportunity to be a part of interdisciplinary gerontologic research. While most trainees will be based in laboratories of investigators leading population-based studies, there is also an interest in applicants with a biological or physiological orientation who will serve as liaison between these studies and other more clinically-oriented and basic biological studies that are part of the research program.

The focus of the studies is on the maintenance of physical and cognitive functioning in a psychosocial and physiologic context and on developing new interdisciplinary approaches to larger issues in health and aging.

Positions are available for M.D.'s or Ph.D.'s with an interest in aging, physiology, neuropsychology, endocrinology, epidemiology, basic biologic sciences, biostatistics, psychology, psychiatry, sociology or related fields. Positions are available at the University of Southern California, University of California at Irvine, Mt. Sinai Medical Center in New York, Yale University, the University of Michigan, The Karolinska University in Sweden, and Pennsylvania State University.

Emphasis will be placed on candidates' abilities to work in an interdisciplinary setting. Positions are available for terms of 1 or 2 years.

Salaries range up to $40,000, commensurate with qualifications and university policy.

Submit curriculum vitae, publications, names of three references, preferences for a specific site and a 2-page statement, including areas of expertise and future research plans to:
Deadline for Applications to be received is January 30, 1991
Lisa F. Berkman, Ph.D.
Department of Epidemiology
Yale School of Medicine
60 College Street
New Haven, Connecticut 06510

Affirmative Action Employer

STAFF SCIENTISTS
Gene Therapy

Immunex Research & Development Corporation, a Seattle-based biopharmaceutical company committed to research and development of human therapeutic products, is currently recruiting for two Staff Scientists in the Gene Therapy Group.

The successful candidate will have a background in virology, gene transfer and expression or somatic cell genetics and will join a multidisciplinary team developing new techniques for the treatment of acquired and hereditary genetic diseases using gene therapy.

Investigators with interest in novel approaches to gene transfer/expression in hematopoietic, lymphoid or hepatic cells are particularly encouraged to apply. A Ph.D. in Genetics, Virology or Molecular Biology is required, preferably with relevant postdoctoral experience. Good communication skills and the ability to work effectively in a collaborative environment are essential.

Immunex Research and Development Corporation offers excellent opportunities for career development as well as competitive salaries and an excellent benefits package. For consideration, please submit C.V., names of three references, and a list of publications to:
IMMUNEX CORPORATION Attn: Human Resources Dept.
51 University Street, Seattle, WA 98101.

Equal Opportunity Employer.

MEDICAL EPIDEMIOLOGIST

The March of Dimes/California Birth Defects Monitoring Program (MOD/CBDMP) has an opening for a Medical Epidemiologist, located in the San Francisco Bay Area.

The Medical Epidemiologist is primarily responsible for independently conducting epidemiologic studies of congenital anomalies. Also, acts as principal investigator in developing and directing epidemiologic studies of congenital anomalies and works within a group comprised of other epidemiologists, providing consultation and serving as a resource in the areas of reproductive biology and medicine.

Candidates should have an M.D. degree, be licensed to practice medicine in California, have completed residency in pediatrics, internal medicine & family practice, and be board eligible. Training in epidemiology and experience in conducting epidemiologic research studies are required. Genetics training is preferred.

MOD/CBDMP offers a highly professional atmosphere with ample program resources to conduct epidemiologic research. Base salary range is $66,200-$82,700 plus an outstanding choice of fringe benefits and generous personal leave policy. Salary may also be augmented by up to 20% if the applicant can secure grant support.

Qualified individuals may submit curriculum vitae and three professional references by February 1, 1991 to:
John A. Harris, M.D., M.P.H., Chief MOD/CBDMP
5900 Hollis Street, Suite A
Emeryville, CA 94608

Equal Opportunity Employer
POSITIONS OPEN

POSTDOCTORAL RESEARCH OPPORTUNITIES. Available now. Join a successful, research program pursuing molecular mechanisms of cell-specific gene expression and tumorigenesis. Transgenic technologies and in vitro approaches are currently employed. This position offers an excellent research environment in a most lively and strongly growing city in Southern Oregon. Required: Ph.D. in molecular biology and commitment to research. Send curriculum vitae and names of three references to: Dr. J. Van Dynek, University of Oregon, Department of Biochemistry, 1484 Tabor Hall, Eugene, Oregon 97403.

POSTDOCTORAL RESEARCH ASSOCIATE. Seek Ph.D. in molecular biology to clone, express, and sequence a cDNA or cDNA fragment as part of an NIH-funded research group funded through both USDA and state agencies. Experience in recombinant DNA and protein purification essential as well as an interest in immunology as pertaining to bovine vaccine development. Successful candidate will be expected to learn T lymphocyte culture and cytokine bioassay techniques. Must be highly self-motivated, able to design/execute independent research and collaborate with other personnel. Support for competitive salary and supplies are available for up to 3 years dependent on satisfactory progress. Send letter of experience and interests, curriculum vitae, and three references complete with address and telephone numbers to: Dr. John K. Houlihan, Department of Vertebrate Parasitology, Microbiology, and Public Health, College of Veterinary Medicine, Oklahoma State University, Stillwater, Oklahoma 74078, FAX: 405-744-8176, TELEPHONE: 405-744-8275. Applications will be accepted through 1 February 1991, or until a suitable candidate has been identified. Applicant must comply with I.R.C. regulations. Oklahoma State University is an Equal Opportunity/Affirmative Action Employer.

TWO MOLECULAR PATHOLOGY RESEARCH ASSOCIATE POSITIONS. Experience in molecular biology is essential. One to study roles of adhesion molecules in cell growth and homeoproteins in congenital malformation using limb development as a model; the other to study regulation and roles of adhesion molecules in cerebral ischemia and disease. Start date is before 21 December 1990 to: C.-M. Choung, M.D., Ph.D., Department of Pathology, HMR 204, University of Southern California, 2051 Zonal Avenue, Los Angeles, CA 90033.

RESEARCH ASSOCIATE. Position available for qualified individual with desire to originate research project involving the development of recombinant single-chain antibodies and/or recombinant antigens. Position requires individual who should have background in molecular biology and immunogenetics with experience in cDNA library construction, cDNA plasmid construction, and/or manipulation of bacterial expression vectors, purification of fusion proteins, and assessment of antibody binding activity. Experience in PCR and immunohistochemistry also desirable. Send letter of interest for project initiation and integration with ongoing research efforts aimed at the development of novel antibodies vs. tumor-associated antigen utilizing transgenic hybridoma technology. Send curriculum vitae and names of three references to: David Gold, Ph.D., Center for Molecular Medicine and Immunology, One Bruce Street, Newark, NJ 07110.

RESEARCH ASSOCIATE. Cardiology for Medical Care and Research Center in northeastern Ohio. To compare new methods of assessing cardiac output in patients at rest during bicycle exercise and pacing conditions, collect and interpret data, prepare findings for publication, and instruct residents and medical students in cardiology. Must have M.D. or Ph.D. degree (foreign degree, must be equivalent to U.S. degree) and 1 year of experience in the job described or 1 year of experience as an instructor/educator. Related occupational experience must include 1 year of experience conducting trials related to hemodynamic assessments and heart failure and 1 year of experience in cardiac catheterization laboratory, interpreting electrophysiological data, or for examiners, ECGs, and pace-makers. Must have published two articles on cardiology in an international journal. Forty hours per week, 9 a.m. to 5 p.m. Must have license and authority to work permanently in the United States. Send resume in duplicate (no calls): J. Davies, 10432, Room 116, Office of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE (POSTDOCTORAL). Physical studies of the interaction of carcinogens and mutagens with chromatin and/or nucleosomes. Work will be conducted in collaboration in the laboratories of Dr. K. E. van Holde and Dr. E. W. Small in the Department of Biochemistry and Biophysics, Oregon State University (OSU), Corvallis, OR. Send letter of application, curriculum vitae and names of three references by 1 February 1991. A Ph.D. or equivalent experience in chemistry, biochemistry, or related field is required; research experience in the isolation and manipulation of chromatin is desired. Salary range: $19,000 to $22,000. Send complete curriculum vitae and request three letters of reference be sent to: Dr. R. E. van Holde, Department of Biochemistry and Biophysics, OSU, Wesseley 535, Corvallis, OR 97331-6503. Applications accepted through 1 January 1991. OSU is an Affirmative Action/ Equal Opportunity Employer and is committed to diversifying its faculty. OSU is an Affirmative Action/Equal Opportunity Employer of the Rehabilitation Act of 1973. OSU is sensitive to the needs of dual-career couples.

TECHNOLOGY TRANSFER ASSOCIATE

A leader in the transfer of university-originated intellectual property to industry. Candidates should have a Ph.D. in either molecular biology, microbiology, biochemistry, or 2 years of related industrial experience in technology assessment, financial analysis, product planning, and marketing. The position involves identification and evaluation of new technologies, preparation of written summaries of the technologies, and seminars on technology licensing. Must have four years of related experience with grant writing, marketing, and negotiation. Salary $30,000 to $40,000. Send resume to: 1000 East Broadway Boulevard, Tucson, AZ 85710.

University of California, Irvine (UCI), College of Medicine, Obstetrics and Gynecology, Assistant Professor, Department of Obstetrics and Gynecology. Full-time position available. $30,000 to $47,000. Send letter of interest and curriculum vitae to: Professor and Chairman, Department of Obstetrics and Gynecology, University of California, Irvine, 101 The City Drive, Orange, CA 92668.

MOLECULAR GENETICS TECHNOLOGISTS. Vivigen, the largest clinical genetics service laboratory in the country, has an opening in its DNA diagnostic laboratory for a CLINICAL TECHNOLOGIST with a minimum of two years experience in molecular biology. Must be familiar with recombinant DNA technology. Salary commensurate with experience. This position is now available. Send curriculum vitae and three work-related references to: Gail Kaplan, Ph.D., Vivigen, Inc., 2000 Vivigen Way Santa Fe, NM 87505.

ASSISTANT CHEMIST. Ph.D. in physical chemistry; 1 year of experience in the job offered or 1 year of experience as a postdoctoral appointee or research associate. Graduate research and experience should include: the development and evaluation of spectroscopic methods, including picosecond laser techniques for the study of chemical dynamics, photochemistry of biological molecules, and optical properties of liquid crystals and molecular dynamics programming; and fs laser spectroscopy, the above evidenced by a minimum of experience in the design and development of theoretical modeling of time domain x-ray crystallography including molecular dynamics. Will be responsible for exploring the time domain capabilities of synchrotrons to study chemical reactivity and accompanying structural changes, and building of a picosecond, pulsed, high-power laser system. Salary: $3650 per month, 40 hours per week. 9:30 a.m. to 5:30 p.m. Send resume to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60603, Attention: L. Donegan, Reference #1827-D. An employer-paid ad.

POSITIONS OPEN

The Holden Arboretum invites applications for a RESEARCH SCIENTIST/WOODY PLANT BREEDER to initiate and conduct a program for the selection and improvement of ornamental and horticultural woody plants. The successful candidate will assist in the planning and design of research facilities, contribute to the educational program, and teach introductory and advanced level courses. Ph.D. in plant genetics or plant breeding is required. This position requires a Ph.D. in plant genetics or plant breeding with a strong background in plant physiology. Three to five years of postdoctoral experience in a similar area of research is required. A demonstrated interest in the culture of landscape plants is essential. Practical experience in plant tissue culture and knowledge of plant genetics, and classical plant breeding would be helpful.

Salary commensurate with experience. Starting date: 1 July 1991. Submit curriculum vitae, a statement of research interest, and three references to: C. W. Elliot Paine, Executive Director, The Holden Arboretum, 9800 Sperry Road, Mentor, OH 44060.

PATHOLOGY. The Department of Pathology and Laboratory Medicine at The University of California, Los Angeles (UCLA), has two positions available, one in CLINICAL CHEMISTRY and one in HEMATOPATHOLOGY. Qualifications for the clinical chemistry position include an M.D., M.S. or equivalent degree, and eligibility for California licensure. Qualifications for the hematopathology position include ACP/CP Board certification in hematopathology. Applicants will be evaluated independently on their qualifications. The successful candidate must hold a Ph.D. in pathology, with summary of research interests, and the addresses of four references, should be sent to: P. A. Short, M.D., Chairman, Department of Pathology and Laboratory Medicine, UCLA School of Medicine, Los Angeles, CA 90024-1732. UCLA is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.

The National Park Service is seeking an ECOLOGIST, GS-408-13, for Lakewood, Colorado: Vacancy Announcement WPO-90-141, open from 3 December 1990 to 11 January 1991. Salary range, $44,548 to $67,210. Applicants must be eligible for the area's research program. He/she develops information on the effects of air pollution on plant biological resources in order to resolve management issues. Applicants must have bachelor's degree with major study in biology or related field under ecological research, including 30 semester hours in biological sciences. This must include 9 hours in ecology and 12 hours in physical and mathematical sciences. Additional requirements: 1 year of experience in professional ecological research. GS-12. Applicants must complete and send an SF-171 to: National Park Service, P.O. Box 37127, Room 2528, Washington, DC 20013-7217. For more information, contact: A. Schaefer, phone: (805) 565-1414.

REPRODUCTIVE BIOLOGISTS. LOEB MEDICAL RESEARCH INSTITUTE OTTAWA CIVIC HOSPITAL

The Ottawa Civic Hospital is dedicated to the provision of quality patient care, which is supported and enhanced by an environment of academic and research excellence. The Loeb Medical Research Institute is a research center of the Ottawa Civic Hospital with integrated thematic research foci in reproductive biology, endocrinology, and neurobiology. Two positions are now available for reproductive biologists.

The successful candidate will be a member of a reproductive biology research team and expected to conduct independent, peer-review, funded research programs. Applicants should possess a doctorate degree and have a minimum of 3 years of postgraduate training. Experience in the area of extracellular matrix remodeling or molecular biology will be an advantage. Applicants will be eligible for faculty appointments in the Department of Obstetrics and Gynecology and in an appropriate basic science department at the University of Ottawa. Rank and salary are commensurate with qualifications. Submit curriculum vitae, a statement of research aims and interests, and names and addresses of three references by 1 January 1991. Send to: Dr. D. Mak, Chairman, Department of Obstetrics and Gynecology and Director, Reproductive Biology Unit, Loeb Medical Research Institute, Ottawa Civic Hospital, 501 Smyth Road, Ottawa, Ontario, Canada K1Y 4E9. FAX: 613-761-9151. Telephone: 613-761-4081. In accordance with Canadian immigration requirements, this position is open to Canadian citizens and permanent residents of Canada.
## CONGRESSIONAL

**AAAS Congressional Science & Engineering Fellows Program**

Fellows spend one year on Capitol Hill working with Members of Congress or congressional committees as special assistants in legislative and policy areas requiring scientific and technical input. Two fellowships will be offered, with annual stipends of $38,000.

## EXECUTIVE BRANCH

**AAAS-Sloan Executive Branch Science & Engineering Fellows Program**

Fellows work in the White House Office of Science and Technology Policy, for one or two years, providing expertise in industrial R&D, technology transfer, international competitiveness, and related issues. Two Fellows will be selected: one industrial scientist or engineer with at least 15 years experience, at a minimum annual stipend of $75,000; the other with about five years experience, at a minimum stipend of $40,000. Applicants must be U.S. citizens. Supported by a grant from the Alfred P. Sloan Foundation.

## DIPLOMACY

**AAAS Science, Engineering, & Diplomacy Fellows Program**

Fellows work in international affairs on scientific and technical subjects for one year, either in foreign policy at the U.S. Department of State or in international development for the U.S. Agency for International Development. Approximately 12 Fellows will be selected. The annual stipend varies with experience, starting at approximately $36,000. Applicants must be U.S. citizens.

## ENVIRONMENTAL

**AAAS Environmental Science & Engineering Fellows Program**

Fellows work as special research consultants with the Office of Research and Development of the U.S. Environmental Protection Agency for 10 weeks in the summer. The detailed, future-oriented research assists ORD in assessing the significance of long-range environmental problems. The stipend is $850 a week. Applicants must be permanent residents of the U.S. Ten Fellows will be selected.

Applicants should be postdoctoral to mid-career scientists and engineers, from any physical, biological, or social science or any field of engineering.

The programs are designed to provide each Fellow with a unique public policy learning experience; to make practical contributions to the more effective use of scientific and technical knowledge in the U.S. government; and to demonstrate the value of science and technology in solving important societal problems.

All Fellows participate in a rigorous orientation on the relevant congressional and executive branch operations and foreign affairs plus a year-long seminar series on issues involving science, technology, and public policy.

The application deadline is January 15, 1991, for the Congressional, Diplomacy, and Executive Branch programs and March 1 for the Environmental program. The three year-long programs begin in September 1991, and the 10-week Environmental program begins in June.

For additional program information and application instructions, write:

Directorate for Science and Policy Programs (FPO)

American Association for the Advancement of Science

1333 H Street, NW, Washington, DC 20005 ▪ 202/326-6600
POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR. Position available immediately for experienced cellular and molecular neurobiologist to investigate roles of acute phase proteins, serine proteases and serpins in CNS injury. Knowledge of cytokine and/or growth factor receptor systems or molecular biology is essential. No teaching responsibilities, but position involves laboratory management. Opportunity for potential career position. Send curriculum vitae and letter describing research interests along with names, addresses, and telephone numbers of three references to: Dr. Barry W. Fenton, Neurobiology Research Laboratory (115), School of Medicine, Kansas University at the Kansas City VA Medical Center, 2401 Linwood Boulevard, Kansas City, MO 64128. Telephone: 816-278-5308. FAX: 816-278-5611-1100. An Equal Opportunity Employer.

The Department of Biochemistry and Biophysics at the University of Pennsylvania School of Medicine is recruiting a RESEARCH ASSISTANT PROFESSOR for research in development of new techniques for localized in vivo NMR spectroscopy, including complex shape functions for multi-inversion frequency band B1 insensitive RF pulses, which include the theoretical description of such pulses, and multi-frequency phase and amplitude modulation RF pulses which serve as propagators for multi-frequency band B1 localization which includes cross-polarization spectroscopy. Requirements: Ph.D. in chemistry with an emphasis on theoretical and/or experimental techniques including multi-frequency band B1 localization in NMR spectroscopy and at least 1 year of postdoctoral experience in vivo spectroscopy and imaging. Deadline: 15 January 1991. Please respond to: Dr. Franz Matchett-Wiley, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104-6059. The University is an Equal Opportunity/ Affirmative Action Employer. Women and minority candidates are encouraged to apply.

Applications are being accepted from M.D./Ph.D.'s with several years of research experience in the neurosciences with background in neurodegenerative diseases and neural plasticity models. Applicant must have established skills in behavioral neuropharmacology, in vivo experimentation, and tissue culture methods with experience in cell biology, molecular biology, and biochemistry.

The position is located at Georgetown Medical School (FGIN) and is a faculty appointment (non tenure-track) as a RESEARCH ASSISTANT PROFESSOR in the Department of Pharmacology. Salary is $35,000 per year.

Send resume to: Director, FGIN, 3900 Reservoir Road, Washington, DC 20007.

ASSISTANT RESEARCH SCIENTIST. Position available immediately for biochemist with experience in normal and neoplastic cells to traverse extracellular matrix barriers (e.g., J. Clin. Invest. 83, 1122 (1989); Science 238, 1518 (1987)). Strong background in cellular and molecular biology is essential. Salary: $35,000 to $40,000. Must be U.S. citizen. Send resume to: Dr. Stephen J. Weiss, University of Michigan Medical Center, Simpson Memorial Institute, Department of Internal Medicine, 102 Observatory Street, Ann Arbor, MI 48109.

COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned baccalaureate an opportunity in academia, the industrial sciences or the private sector to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncy, Program Director, Accelerated Program, The New England College of Optometry, Room 5, 424 Beacon Street, Boston, MA 02115.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES are available for persons interested in the D.A. degree in biological sciences. The program prepares teaching candidates for graduate and upper level university courses. For more information, contact: Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. An Equal Opportunity Employer.
1991 Summer Institute in Japan for US Graduate Students in Science and Engineering

The National Science Foundation (NSF) announces an opportunity for 50 select US science and engineering graduate students to gain first-hand experience in a Japanese research environment by spending the summer of 1991 at Japanese research laboratories in Tsukuba Science City.

The goals of the Summer Institute in Japan are to expose US graduate students to Japanese science and engineering in the context of a research laboratory and to initiate personal relationships which will better enable them to collaborate with Japanese counterparts in the future. Those eligible are graduate students (US citizens or nationals) who are enrolled at a US institution in a PhD program or enrolled in an engineering graduate program of which they have completed a year or more.

The 50 graduate students selected for this internship will spend the summer participating in on-going research projects at Japanese government or corporate laboratories in Tsukuba Science City, about 60 km northeast of Tokyo. Thirty-six government research institutions are potential hosts for interns, including such well known laboratories as the Electrotechnical Laboratory, the National Institute of Agrobiological Resources, the National Space Development Agency of Japan, the National Research Institute for Metals, and the University of Tsukuba. It is not yet known which organizations may act as hosts.

In addition, interns will receive intensive Japanese language training and, through lectures, discussions and occasional field trips, gain an understanding of the science and science-policy infrastructure of Japan. Interns in the Summer Institute Program will be in Japan for eight weeks from June 28 to August 24. The NSF will pay travel costs to and from Japan and an allowance of $2,000. Dormitory accommodation and partial board while in Japan will also be provided.

All application materials for the Summer Institute in Japan must be postmarked by January 15, 1991. NSF welcomes applications from all qualified science and engineering graduate students, and strongly encourages women, minorities and persons with disabilities to apply. Application materials may be obtained from NSF’s Japan Programs Office, by sending a post card to:

Japan Programs, Room 1214
National Science Foundation
Washington DC 20550

or through electronic mail to:

NSFinfo@nsf.gov (InterNet) or
NSFinfo@NSF (BitNet)
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