Assistance Professor, Anatomy

Applications are invited for a junior faculty position at the level of assistant professor in the Department of Anatomy. Applicants should have a Ph.D. or M.D. and postdoctoral research training are required. Experience in teaching, research and administration is desirable. Please send a letter of application, curriculum vitae, and three references by 30 July 1988.

Tage N. Kvist, Ph.D. Professor and Chairman
Department of Anatomy
Philadelphia College of Osteopathic Medicine
4130 City Avenue
Philadelphia, PA 19131

Assistant Professor in Pharmacology

The Department of Pharmacology, University of California, Los Angeles, is inviting applications in the area of M. D. degrees and 1 to 2 years postdoctoral research training are required. As a junior faculty position, the applicant will be expected to contribute to the laboratory, clinical, and administrative activities of the Department. The position is renewable annually.

Applications will be considered beginning 15 August 1988, with teaching responsibilities expected to begin in the fall of 1989.

Marine Scientist

Facilities are available for postdoctoral studies for a marine biologist interested in zoology and/or neuroanatomy of marine invertebrates. The position offers the opportunity to work with Dr. Tsuji, a faculty member in the Department of Zoology, to complete a Ph.D. dissertation. The position is open to a Ph.D. candidate in marine biology. Experience is required in the use of laboratory equipment, and a strong background in undergraduate studies.

Applications will be considered beginning 15 August 1988.

Assistant Professor of Pharmacology

The Department of Pharmacology, University of California, Los Angeles, is inviting applications for a junior faculty position requiring a Ph.D. or equivalent degree in pharmacology. Excellent opportunity for research and teaching in the area of general pharmacology.

Applications will be considered beginning 15 August 1988.

Assistant Professor of Pharmacology

The Department of Pharmacology, University of California, Los Angeles, is inviting applications for a junior faculty position requiring a Ph.D. or equivalent degree in pharmacology. Excellent opportunity for research and teaching in the area of general pharmacology.

Applications will be considered beginning 15 August 1988.

Biology

Tenure-track assistant professorship

Applications are invited for a tenure-track assistant professor position at the University of North Carolina, Chapel Hill, beginning 15 August 1988. The Department of Biology is committed to increasing the number of women in the ranks of both graduate and undergraduate students. Applications or nominations should be sent to: Dr. Cynthia G. Hunsaker, Department of Biology, University of North Carolina, Chapel Hill, NC 27514. The university is an equal opportunity employer.

Assistant Professor of Pharmacology

The Department of Pharmacology, University of California, Los Angeles, is inviting applications for a junior faculty position requiring a Ph.D. or equivalent degree in pharmacology. Excellent opportunity for research and teaching in the area of general pharmacology.

Applications will be considered beginning 15 August 1988.

Biologist

Tenure-track assistant professorship

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Applications will be considered beginning 15 August 1988.
DIRECTOR OF GRADUATE STUDIES

Washington University in St. Louis is seeking a Director of Graduate Studies to coordinate and oversee graduate training programs in the Division of Biology and Biomedical Sciences. These programs presently include the Departments of Biological Sciences, Chemistry, Computer Science, Environmental Science, Physics, and the Program in Molecular and Cellular Biology.

Applications are invited from candidates who have demonstrated the ability to attract and advise graduate students, to offer graduate-level courses, and to make substantial contributions to the development of graduate training programs.

The Division of Biology and Biomedical Sciences is an endowed unit within the University. It includes departments in both the Medical School and the College of Arts and Sciences and is overseen by an Executive Committee composed of faculty and participating departments. The Director of Graduate Studies will also be appointed Associate Director of the Division.

The Director of Graduate Studies must understand graduate training programs in the biomedical sciences and should be articulate and enthusiastic in dealing with students and staff. Salary and fringe benefits will be commensurate with qualifications and experience.

Applicants should send résumés and a summary of relevant experience by 1 January 1988, to: Daniel L. Hart, Director, Division of Biology and Biomedical Sciences, Box 8031, Washington University Medical School, St. Louis, Missouri 63110-1098

Electron Microscopy Technician

Miami University seeks an electron microscopy technician to occupy a permanent position to assist the Electron Microscope Faculty Supervisor in the conduct of faculty operations and programs. The EM Facility is operated jointly by the Departments of Botany and Zoology. B.S. and previous EM experience are required. Competitive salary and fringe benefits are available. Application review will begin 1 July 1988. Send curriculum vitae, a description of EM experience, transcripts of all academic work, and three letters of reference to: R. G. Sherman, Director, Zoology Department, Miami University, Oxford, OH 45056. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN TUMOR IMMUNOLOGY

The newly established NCI designated Cancer Center at the University of Colorado Health Sciences Center (UCHSC), in collaboration with the Department of Microbiology and Immunology and the Wadsworth Institute of Biotechnology, invites applications for a tumor immunologist position at the assistant or associate professor level. Experience with gene cloning, retrovirology and/or tumor immunology is desired. Send curriculum vitae to: Dr. David W. Talmage, Box C621, UCHSC, Denver, CO 80262. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION AVAILABLE IN PHYSIOLOGY

The Division of Life Sciences, The University of Texas at San Antonio, invites applications for a tenure-track assistant professor in physiology with research interests in neuroendocrinology. Applicants should have a strong background in the biomedical sciences, and a doctoral degree is preferred. The Division of Biology and Biomedical Sciences is an endowed unit within the University. It includes departments in both the Medical School and the College of Arts and Sciences and is overseen by an Executive Committee composed of faculty and participating departments. The Director of Graduate Studies will also be appointed Associate Director of the Division.

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ELECTRON MICROSCOPY TECHNICIAN

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LITIGATION SUPPORT

Major midwest law firm is seeking applicants for the position of RESEARCH ANALYST. This analyst will work with a trial team (including other research analysts) in the preparation and trial of product liability litigation. Duties include: medical literature and medical records analysis; preparation of summaries of documentary evidence reviewed; preparation and communication of reports on medical issues; and preparation of positions on medical issues for trial. Position requires travel which may include several weeks during trials. This is a high intensity position with a challenging docket of assignments which requires a highly self-motivated individual.

This position requires an outstanding academic record, a graduate degree in biological, life, or biomedical science. A strong working knowledge of biometrics and/or epidemiology is preferred. Excellent communication skills are essential. No legal education or experience required.

Please send a letter of application, complete college transcripts, a personal résumé, and references to: BOX 95, SCIENCE.

MANAGER BIOTECHNOLOGY
COLUMBIA UNIVERSITY

Columbia University's Cancer Center Division of Bio
technology is seeking an individual to supervise the development of multi-user research facilities with specialized instrumentation. Instrumentation includes: Becton-Dickinson flow cytometer, Applied Biosystems automated DNA sequencing and DNA synthesizer, EM Facility. Responsibilities include: working knowledge of the instrumentation, supervision/training of technicians, collaborative experimental design, development of specialized assays and administrative duties. Requires an M.S. with a minimum of 3 years of experience involving computer-interfaced instrumentation. Experience with flow cytometry, computer programming, optics, lasers, and electronics is highly desirable. Must have demonstrated initiative, independent work habits and strong communication skills. Reply to: Director, Columbia University Comprehensive Cancer Center, 701 West 168th Street, New York City, NY 10032. Columbia University is an Affirmative Action/EQUAL OPPORTUNITY EMPLOYER.

MEDICAL PHYSICIST POSITION

Responsibilities involve technical supervision and research in Magnetic Resonance Imaging (MRI) and new applications in digital imaging. Duties include imaging improvement, equipment maintenance, quality assurance, and applications to imaging in diagnostic radiology and teaching residents. Ph.D. degree in medical physics and experience in clinical radiation physics required. Must be expert in digital imaging, familiar with medical x-ray equipment, ultrasound, nuclear medicine, and MRI. Must have minimum of 6 months of postdoc
toral training in medical physics and 6 months of experience in clinical diagnostic radiology. Forty hours per week; $50,000 per year. Apply "by résumé only" at: Massachusetts Division of Employment Security, C.F. Hurley Building, Boston, MA 02114, J.O. #8128.

MICROBIOLOGY CHAIRPERSON

The Saint Louis University School of Medicine is seeking a midcareer M.D. or Ph.D. investigator to head an active, well-funded, moderately sized Department of Microbiology. Current departmental research is broadly based but contains a strong core of interest in membrane and organelle structure, function, and biogenesis. The successful candidate will be expected to bring with him/her an established, funded research program and a commitment to promoting the research of other investigators. Applications from individuals with expertise in any area of the infectious process are particularly encouraged. Previous administrative experience is desirable, but not required. Nominations, letters of inquiry and applications (including curriculum vitae and the names of three references) should be sent to: Dr. Arnold J. Kahn, Pediatric Research Institute, 3562 Park Avenue, St. Louis, MO 63110. An AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

Ph.D.
RESEARCH SCIENTIST
EXPERIMENTAL PATHOLOGY

As a result of the recent merger of American Home Products Corporation’s two phar
aceutical divisions, Wyeth Laboratories and Ayerst Laboratories, we are now one of the largest pharmaceutical companies in the world. WYETH-AYERST RESEARCH has an immediate opening for a highly motivated and innovative scientist to head our Experimental Pathology Section within the Immunopharmacology Division.

The selected candidate will direct the work of several Ph.D. scientists and biologists in an environment where the biochemistry of connective tissue can be studied. Expertise in the area of metalloproteinases and biochemistry of bone and cartilage is essential as well as technical knowledge and interest in the areas of collagen and cartilage physiology, hemostasis, and immunology. Experience in the area of hemostasis and immunology is desirable.

We offer an excellent salary and benefits package plus opportunities for career advancement along with an ultra-modern research facility. Interested candidates please submit resume and salary requirements to:

Personnel Manager, Dept. JC

WWW-AYERST
RESEARCH
CN 8000
Princeton, NJ 08543-8000
Equal Opportunity Employer M/F/H/V

SENIOR POSITIONS IN
TOXICOLOGY AND PHARMACOLOGY

The Life Sciences Department of Midwest Research Institute (MRI) is seeking qualified indi
dividuals to direct research programs to evaluate the preclinical toxicology and pharmacology of drugs and other chemicals. These programs are supported by federal and private sponsors.

One position requires a Ph.D., or equivalent, in Toxicology or related science and a minimum of 5 years of laboratory experience in an appropriate (e.g., industrial or contract) setting. Veterinary expertise in rodent toxicology is desirable. The applicant should be familiar with investigative studies to assess the safety and mechanisms of toxicity of anticancer and antiviral agents.

The second position requires a Ph.D., or equivalent, in Pharmacology or Biochemistry or related science plus a minimum of 5 years of appropriate laboratory experience in evaluating disposition, metabolism, and pharmacokinetics of xenobiotics. These studies are required to satisfy regulatory requirements and to assess the mechanism of action and toxicity of these compounds. The applicant should have working experience in pharmacokinetics modeling of data.

Responsibilities of both positions include study design and coordination, staff supervision, data interpretation, preparation of protocols, proposals, and reports, and extensive interaction with sponsors. Knowledge of GLP’s and other regulatory procedures is essential. The applicant should be able to develop research areas that are supportive and interactive with existing toxicology/pharmacology activities.

Applicants with other research experience in vivo and in vitro toxicology/pharmacology and who are able to submit their research programs via contracts or grants are also encouraged to apply. MRI offers competitive salary, comprehensive benefits package, and paid relocation. Send resume and salary history to Personnel Representative at:

MIDWEST RESEARCH INSTITUTE
425 Volker Boulevard
Kansas City, MO 64110
(816) 753-7800

equal opportunity employer M/F/H/V

3 JUNE 1988
ATPases. The Northrop virus invited another investigation of animal cell transport ATPases. Research will involve investigation of the biochemistry of this ATPase with the goal of elucidating its molecular mechanism. Send curriculum vitae and the names of three references to: Richard N. Benfield, Vice President and Director, Division of Research, Alton Ochsner Medical Foundation, 1516 Jefferson Highway, New Orleans, LA 70121. Equal Opportunity Employer.

MOLECULAR BIOLOGISTS. Applications are invited for a tenure-track assistant professor position and for a non-tenure-track scientist position in the Department of Dental Research at the University of Rochester. Candidates may express interest in both positions. Qualifications include a Ph.D. and/or a D.D.S., D.V.M., or M.D., extensive experience in the molecular biology and genetics of the control of cell growth and differentiation. We are seeking outstanding individuals who are using the approaches of molecular biology or cell physiology to examine cell signaling at the level of salivary gland gene expression, and an interest in pursuing a career in oral biology. Candidates for the assistant professor position must have a minimum of 3 years of postgraduate training and will have shown success in obtaining grant support. All applicants should be able to develop a strong research program, participate in interdepartmental, collaborative efforts, and teach in graduate coursework. A commitment to achievement in research and teaching is essential. Please send a statement of research interests, curriculum vitae, and letters of support to: William H. Bowen, Chairmann, Department of Dental Research, University of Rochester School of Medicine and Dentistry, 601 Elmwood Avenue, Rochester, NY 14642. An Equal Opportunity Employer (MF). Closing date for applications is 1 July 1988.

MOLECULAR BIOLOGISTS, THE UNIVERSITY OF CHICAGO: THE BEN MAY INSTITUTE AND THE DEPARTMENT OF PATHOLOGY. The Ben May Institute and the Department of Pathology invites applications for at least two junior faculty positions. We are committed to developing strong programs in the molecular aspects of the control of cell growth and differentiation. We are seeking outstanding individuals who are using the approaches of molecular biology or cell physiology to examine cell signaling at the level of salivary gland gene expression, and an interest in pursuing a career in oral biology. Candidates for the assistant professor position must have a minimum of 3 years of postgraduate training and will have shown success in obtaining grant support. All applicants should be able to develop a strong research program, participate in interdepartmental, collaborative efforts, and teach in graduate coursework. A commitment to achievement in research and teaching is essential. Please send a statement of research interests, curriculum vitae, and letters of support to: William H. Bowen, Chairmann, Department of Dental Research, University of Rochester School of Medicine and Dentistry, 601 Elmwood Avenue, Rochester, NY 14642. An Equal Opportunity Employer (MF). Closing date for applications is 1 July 1988.

PLANT COMMUNITY/ POPULATION ECOLOGIST. The University of Saskatchewan, Department of Biology, invites applications for a 3-year term assistant professor position beginning January 1989. Applicants must hold a Ph.D. degree and have demonstrated ability to carry out productive and independent research. The successful candidate is expected to teach at both the junior and senior levels. A tenure-track position in this field may become available within the term of the appointment. Qualified individuals should send their curriculum vitae, a brief description of their research objectives, and the names of three referees before 30 June 1988 to: Dr. T. A. Stewart, Acting Head, Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan, S7N OW0, Canada. In accordance with Canadian immigration requirements, applications from Canadian citizens and landed immigrants will be given priority.

MOLECULAR/CYTOLICAL BIOLOGISTS. The Alton Ochsner Medical Foundation, a tertiary care institution in the Gulf South, currently has an opportunity in its Research Division for a scientist skilled in the techniques of molecular biology who wishes to establish an independent laboratory for the study of oncogenesis and disorders of growth. Salary is competitive and startup funds are available. Send curriculum vitae and the names of three references to: Robert L. Trestlad, M.D., Professor and Chairman, Department of Pathology, UMDNJ—Robert Wood Johnson Medical School, 1600 Hoes Lane, Piscataway, NJ 08854—5635. Equal Opportunity/Affirmative Action Employer, M/F/H/V.

PHARMACOLOGY CHAIRMAN. The University at Buffalo (SUNY) is seeking a chairperson for the Department of Pharmacology and Therapeutics at the School of Medicine and Biomedical Sciences. The Department presently has 13 full-time and 4 part-time faculty positions. The Department has a diverse research program and has strength in neuropharmacology and toxicology. The successful candidate must have a well-established and active research program in pharmacology or related discipline. The candidate should have a national and international reputation preferably in an area related to molecular pharmacology although other areas of research interest will also be considered. Persons interested in this position should send curriculum vitae, a description of research activities and administrative experience, and the names of three references to: Dr. Murray W. Stinson, Department of Microbiology, School of Medicine and Biomedical Sciences, University at Buffalo (SUNY), Buffalo, NY 14214. All materials must be received by 15 July 1988. SUNY is an Equal Opportunity/Affirmative Action Employer.

PLANT TISSUE CULTIVATOR. Sogeval Corporation, a plant biotechnology company in the San Francisco Bay Area, is seeking an associate/scientist to work on tissue culture programs. The ideal candidate will have a B.S. or M.S. degree with a minimum of 2 years of experience in tissue culture. Sogeval offers a competitive salary and benefits program. Please send resume with references to: Human Resources Department/TCS, Sogeval, Inc., 3872 Bay Center Place, Hayward, CA 94545. An Equal Opportunity Employer.

POSTDOCTORAL APPOINTMENT IN MOLECULAR MEDICINE. Applications are invited to undertake a project on the investigation of the molecular basis for insertion of a stop codon into mRNA coding for a apoalpha-2B. We are currently investigating the molecular basis for insertion of the stop codon by: (i) analysis of deletion mutants in transgenic mouse lines; (ii) studies in transgenic mice; and (iii) modification in vitro of the mRNA. Knowledge in deletion and other forms of mutagenesis, and the use of nuclear extracts for studies in vitro is essential. This project will require a high level of individual creativity and initiative. The appointment is for 3 years, and salary will be on an appropriate point for the scale for non-clinical university academic staff.

POSTDOCTORAL POSITION available immediately at the POSTDOCTORAL level or as a SENIOR TECHNICIAN. (i) Electrophysiological studies of gap junctional communication in mammalian cells. Ionic coupling, dye transfer, whole cell voltage or patch clamp. Experience in developing and optimizing techniques (e.g., microsurgery, cytochemistry, and immunocytochemistry). Studies on activity of active protein kinases and their regulation and cell communication. Cell culture experience desirable. Salary will be $20,000 to $26,000 depending on experience. Possibility of an academic research appointment at the University Medical Center for Ph.D. level applicants. Send curriculum vitae and names and telephone numbers of two references to: William H. Fletcher, Ph.D., Cytology Research-151, J. L. Pettis VA Hospital, Loma Linda, CA 92357.

POSTDOCTORAL FELLOW/MOLECULAR VI- RIOLOGY. Research position available now in retroviral gene insertion/recombinant gene expression in animals. Candidate should have a background in molecular biology and/or virology and career interests in agricultural genetic engineering or gene therapy. This Ohio State University (OSU) research center is located in pleasant, semi-rural surroundings in northeastern Ohio. Competitive salary based upon qualifications. Dr. C. P. Hodgson: (216-263-3758), Laboratories of Molecular and Developmental Biology, Research Foundation and Development Center/OSU, Wooster, OH 44691.

POSTDOCTORAL IMMUNOLOGIST. A position is available for a research scientist in active program of transplantation immunology. Individual to conduct studies on mechanisms of blood transfusion (antigen) induced immune regulation including suppressor cell generation, and mechanisms of action. Salary is competitive with experience and begins at $25,000. Send curriculum vitae and names of three references to: Dr. R. M. Barrow, M.D., Immunogenetics and Transplantation Laboratory, University of California, San Francisco UCSF, 3rd and Parnassus, San Francisco, CA 94143.

POSTDOCTORAL POSITION, available December 1988, to study translational control (MBI 199, 95—105) or membrane protein interactions using recombinant DNA and molecular biology. Recent Ph.D. or recent doctorate in life science or biochemistry, good record of productivity and, in absence of direct experience, a strong background in cellular regulation. Send curriculum vitae, names of three references to: R. Young, Department of Biochemistry, 110 Herman J. Branson Building, Texas A&M University, College Station, TX 77843.

POSTDOCTORAL POSITION. Available September 1988, for collaborative studies of growth factor synthesis and function in hormone responsive and unresponsive prostate cancer cells. Molecular studies of hor- mone regulated growth factor gene expression and bio- chemical studies of growth factor function will be pur- sued with Dr. Sydney A. Meldrum. Candidates must have strong background and laboratory experience in cell biology and/or molecular biology. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Sydney A. Meldrum, 1873 Radioisotope Research Laboratory, University of Washington, Seattle, WA 98195, by 31 July 1988.
PROTEIN BIOCHEMIST

A major consumer products company has an opportunity for you in its biochemistry group. You will be responsible for implementing protein purification procedures which will involve isolating and purifying enzymes to homogeneity.

You must have experience in the use of various chromatographic and other protein purification and immunochemical techniques; a background in the use of radioisotopic methods, FPLC and computers would be beneficial. Training in plant biochemistry is desired. Requires an M.S. degree with at least two years experience in the above techniques or a recent Ph.D.

You will be provided with an competitive salary and excellent benefits. For consideration, send your resume to:

Box 88, Science

Equal Opportunity Employer M/F/H

Postdoctoral Positions In Scientific Computing

Smith Kline & French Laboratories, a division of SmithKline Beckman Corporation, has a position available for a Postdoctoral Fellow at our Research & Development complex in Upper Merion, Montgomery County, PA.

The Scientific Computing Group is responsible for research in computational methods relevant to pharmaceutical research and development. Several areas of computational research are under consideration, including, but not limited to:

- Imaging
- Molecular Biology
- NMR Analysis
- Structure-Activity Relationships
- Expert Systems
- Pattern Recognition
- Macromolecular Structure Prediction & Determination
- Spectroscopy

Successful candidates will join a multi-disciplinary team consisting of scientists and computing specialists. An advanced degree (Ph.D.) in a scientific field as well as strong, documented experience in scientific computing are essential. Especially of interest are individuals who consider themselves both a scientist and a computer specialist. Research programs will be determined by the interests and skills of the candidate as well as the needs of the scientific computing group.

We offer excellent compensation and benefits and an attractive relocation policy. Please submit C.V. to Barbara J. Schwartz, 99053, Associate Employment Administrator, SK&F Laboratories, P.O. Box 1530, King of Prussia, PA 19406-0539. We are an equal opportunity employer, M/F/HIV, NO PHONE CALLS PLEASE.

RESEARCH SCIENTIST

WYETH - AYERST RESEARCH, a subsidiary of Fortune 100 American Home Products Corporation, has two openings for research scientists in its Drug Metabolism Division.

RESEARCH ASSOCIATE

This position requires an experienced investigator to study the metabolism and pharmacokinetics of developmental drugs in laboratory animals and man. The candidate must have a strong background in chromatographic methods of analysis, isolation (from biological samples) and structure elucidation of metabolites, experience in radiometric techniques, and excellent oral and written communication skills. This position requires a Ph.D. in Chemistry or Biochemistry and at least 3 years post-doctoral experience in a relevant drug metabolism field.

SENIOR SCIENTIST

A motivated scientist is needed to study the absorption, distribution, metabolism and excretion of foreign compounds in laboratory animals and man. The candidate should have experience in the development of analytical methods to quantitate xenobiotics in biological fluids, the use of animal models to study the metabolic fate of foreign compounds and pharmacokinetic principles. Excellent oral and written communication skills would be an asset. A Ph.D. in Physical or Life Sciences with at least one year post-doctoral experience is required.

Wyeth-Ayerst offers an excellent salary and benefits package with opportunities for career advancement. Interested candidates should submit a resume with salary history to:

PERSONNEL MANAGER, DEPT. MC

WYETH - AYERST RESEARCH

CN 8000
Princeton, NJ 08543-8000
An Equal Opportunity Employer M/F/H/V
POSTDOCTORAL POSITION available immediately to study immunological aspects of aging, with emphasis on understanding how experiences early in life influence cellular immunity essential. Send curriculum vitae and names of three references to: Dr. Roy L. Walford or Dr. Rita Effros, Department of Pathology, Pathology Department, Los Angeles, CA 90024. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for studies on the neural control of blood flow in the choroid of the eye. The analyses will involve a combination of anatomical (immunohistochemistry, pathway tracing, LM, EM) and physiological techniques (laser-Doppler, neurophysiology) to identify the circuitry and transmitters involved in control of choroidal blood flow, determine their precise role and clarify their importance for outer retinal health. An interest in vision or previous experience with neuroanatomical or immunohistochemical techniques desirable. Salary based on experience. Contact: A. Reiner, Department of Anatomy and Neurobiology, University of Tennessee, Memphis, TN 38163.


POSTDOCTORAL POSITION sponsored by the National Research Council is available for a qualified candidate with skills in molecular biology (hybridizations, cloning, sequencing) to work at the EPA on human and animal retroviral diseases. The stipend is at least $25,150 per year. Send curriculum vitae and the names of three references to: Marc J. Mass, Ph.D., Carcinogenesis and Metabolism Branch, MD-68, U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.

Applications are being accepted for a POSTDOCTORAL position with opportunities for research in all phases (basic and clinical) of a radioimmunoconjugate cancer treatment program. This advertisement renounces a previous advertisement which was listed in the 22 April 1988 issue of Science, vol. 240, page 566. Some experience in immunology, immunochemistry, immunoprecipitation, or dialysis techniques is desirable. Apply to: Dr. Margaret A. Tempero, M.D., Department of Internal Medicine, University of Nebraska Medical Center, 42nd & Dewey Avenue, Omaha, NE 68105-1050. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to map procollagen domains in normal and colitis affected human and animal cells. Proficiency in computer and statistical methods and familiarity with molecular genetic techniques is required. Send curriculum vitae and names of three references to: Dr. Daniel S. Greenspan, Department of Pathology, University of Wisconsin School of Medicine, 470 North Charter Street, Madison, WI 53706.

POSTDOCTORAL POSITION Postdoctoral fellowship position available to study the immunobiology of sperm and gene expression during spermatogenesis. Research involves techniques in immunology, protein chemistry, molecular genetics, and gene expression. Send curriculum vitae and names of three references to: Dr. S. T. Koide, The Paston Council, 1230 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION available immediately to study EMC virus-induced diabetes. Projects include isolation and characterization of recombinant DNA molecules. Preference to recent Ph.D. experienced in cloning. Starting salary: $24,000. Send curriculum vitae and names of three references to: Dr. George W. Jordan, M.D., Division of Infectious Diseases, University of California, Davis, School of Medicine, 4301 X Street, Sacramento, CA 95817. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study vector component of Aedes albopictus. Additional experience in immunology is desirable. Send curriculum vitae and names of three references to: Dr. J. S. Kovalchik, Chairman, Department of Oncology and Pediatrics, Mayo Comprehensive Cancer Center, May Clinic/Foundation, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION IN BIOCHEMICAL PHARMACOLOGY for recent Ph.D. interested in diabetic retinopathy. Experience in cell culture and cellular biology. Background in membrane biochemistry useful. Salary $22,000 to $25,000 per year. Send curriculum vitae and names of three references to: Dr. H. D. Liddle, Department of Biochemical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Drawer 2010, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN IMMUNOBIOLOGY available immediately to study mechanisms of growth regulation in mammalian cells. Areas of research interest include structure function relationships in protein tyrosine kinases, regulation of protein tyrosine kinases by intracellular and extracellular factors, and regulation of cellular functions by oncogenes. Projects involve molecular genetic methods including the use of retroviral vectors and transgenic mouse models. Send curriculum vitae and names of three references to: Dr. Paul L. Kaplan, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY OF HYPERTENSION. Requirements are Ph.D. or M.D. with experience in molecular genetics. Techniques to include cloning, RFLP studies, protein purification and sequencing. Salary negotiable. Submit curriculum vitae and statement of research interests to: Dr. Robert F. Sprouse, Department of Pharmacology, University of Texas Southwestern Medical Center, Dallas, TX 75235. Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION MOLLECUAR BIOLOGY OF BACTERIAL INFECTION, WAKSMAN INSTITUTE, RUTGERS UNIVERSITY Focus of the research is on the structure-function relationship of the adenovirus multifunctional DNA binding protein, particularly as it relates to gene regulation and DNA replication. A Ph.D. with experience in protein biochemistry, enzymology, and/or molecular biology is essential. Current openings involve the study of three different regions of the adenovirus genome. Send curriculum vitae and names of three references to: Dr. Daniel F. Kleinsig, Waksman Institute, Rutgers, The State University of New Jersey, P.O. Box 759, Piscataway, NJ 08855. Available fall 1988 or early 1989. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF GEORGIA CENTER FOR METALLOENZYME STUDIES POSTDOCTORAL POSITION AVAILBLE Applications are invited for five postdoctoral positions in the laboratories of Dr. L. E. Mortenson and Dr. Robert Robson. Main emphasis will center on studies of the metalloenzyme MnATP hydrolase, a key enzyme in nitrogenase. To approach the problem, extensive use will be made of the techniques of molecular genetics, chemical modification, and other cellular biological techniques such as magnetic resonance. A background in biochemistry with experience in protein isolation and characterization and/or site-directed mutagenesis will be an advantage. An interest in computer modeling of protein structure would also be desirable. The common goal of these laboratories is to determine structure function relationship in nitrogenase by a combination of enzymology, spectroscopy and molecular biology. Salaries will be in the range of $20,000 per year. Send curriculum vitae and names of three references to: Professor Leonard E. Mortenson, Callaway Professor of Biochemistry, 400 Biological Sciences Building, The University of Georgia, Athens, GA 30602.

An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITIONS Biology Department, University of Texas at Arlington. Positions (up to 2 years) are available 1 September 1988 in the following areas: (i) Microbial Ecology: Regulation of planktonic bacteria by macrophytes, (ii) Evolution of Mimicry: Delayed appearance of mimics. Salary ranges: $20,000 to $22,000. Please send curriculum vitae and names of three references to: T. H. Chrzanowski (Microbial Ecology) or E. D. Brodie Jr. (Evolution of Mimicry), Department of Biology, University of Texas at Arlington, Arlington, TX 76019. Equal Opportunity Employer.
Vacancy Announcement

National Institute of Neurological and Communicative Disorders and Stroke

National Institutes of Health
Public Health Service
Department of Health and Human Services

The National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), National Institutes of Health (NIH), Public Health Service (PHS), invites nominations and applications for the position of Chief, Neuroepidemiology Branch. This is a Senior Executive Service position with a salary range of $65,700 to $73,400 per annum. The individual selected may be eligible for a Physician’s Commissary Allowance ranging from $5,000 up to $20,000. The position is located in Bethesda, Maryland.

The Chief, Neuroepidemiology Branch provides technical and administrative direction and leadership to the Institute's epidemiological program and service as the focal point within the Federal sector, the scientific community, and the public for these activities.

Candidates must meet minimum educational requirement for Medical Officer, GS-620 (or equivalent combination of experience and training), as defined by the U.S. Office of Personnel Management Handbook X-118, Qualification Standards for Positions under the General Schedule. This information is available in Federal Personnel Offices and Federal Job Information Centers. Further information about qualifications can be obtained by contacting Mr. Clifford Schein on (301) 496-6334. Information regarding the position can be obtained by contacting Dr. Mark Hallett on (301) 496-1561. An application for Federal Employment (Form SF-171), accompanied by a current curriculum vitae and bibliography should be submitted to Mr. Clifford Schein, NINCDS Personnel Office, National Institutes of Health, Building 31, Room 6A23, 9000 Rockville Pike, Bethesda, MD. 20892.

Applications Must Be Postmarked
No Later Than July 1, 1988.

All qualified candidates will receive consideration without regard to race, religion, color, sex, age, national origin, lawful political affiliation, marital status, union membership, or any nondisqualifying physical or mental handicap.

U.S. citizenship required.
NIH is an equal opportunity employer.

RESEARCH SCIENTIST
ANIMAL SCIENCE

Amgen is a dynamic and growing organization producing pharmaceutical products for a variety of human and animal applications through applied biotechnology. As a result of our growth and continued commitment to the development of animal health care products, we have an immediate opportunity for an Animal Scientist to evaluate ongoing research products for their applications in farm animal health, growth and development.

Responsibilities for this position will include interaction with Amgen research and therapeutic development groups as well as study design, selection of field investigators, monitoring and coordinating field studies and evaluation of data.

Qualified candidates must have a Ph.D. and/or DVM. Specialization in animal physiology and endocrinology is desirable. Experience with farm management practices and disease problems as well as familiarity with field study design and statistics is essential. A thorough knowledge of field modeling methods is also important. Amgen offers a stimulating and challenging research environment as well as an excellent compensation and benefits package, including equity offerings.

Our location northwest of Los Angeles in an attractive community in the Conejo Valley offers the best in Southern California living.

Qualified applicants should send a curriculum vitae, including references, in confidence, to:

Recruitment, Dept. #307
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer

ASSISTANT RESEARCH SCIENTIST
(Anti-Infective Research)

The Bristol-Myers Company, a worldwide leader in the research, development and marketing of sophisticated pharmaceutical, medical care, consumer, and nutritional products, has an opportunity available for an Assistant Research Scientist at its Virology Department of Anti-Infective Research in Wallingford, CT. This is an exciting opportunity to work on the activation and metabolism of antiviral compounds for herpes viruses and the human immunodeficiency virus.

Candidates should have an MS or BS with 3-5 years experience in Biochemistry or related discipline. Hands on experience with HPLC and procedures to purify and assay enzymes are essential. Experience in radiochemical tracer techniques and enzyme kinetics would be a definite asset.

Bristol-Myers offers an excellent salary and a comprehensive benefits package. For confidential consideration, forward your resume, including salary history to: Bristol-Myers Company, Pharmaceutical Research & Development Division, Department SS/SCS, PO. Box 5900, Wallingford, CT 06490. An equal opportunity employer (Principals Only Please).
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS beginning June to December 1988 to study the control of gene expression during development, and the mechanisms that regulate cell proliferation and differentiation in human epithelial cells and murine mesenchymal stem cells. Experiments will also examine the mechanisms of carcinogenesis. Individuals with a strong molecular and molecular biology background should apply. Positions offer very competitive salary and fringe benefits. Application deadline is 15 May 1988. Please send curriculum vitae and the names of three references to: R. E. Scott, M.D., Head, Section of Experimental Research, Department of Biochemistry and Molecular Biology, Mayo Foundation, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available to study the molecular responses to ischemia-reperfusion and inflammation. Projects include in vivo analysis of leukocyte-endothelial interaction and microvascular exchange of plasma proteins. Salary range $20,000 to $24,000, depending on experience and qualifications. Send curriculum vitae and names of three references to: Dr. D. Neil Granger, Department of Physiology, LSU Medical Center, P.O. Box 33593, Shreveport, LA 71130-3932. An Affirmative Action Employer.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS available immediately to study the structure and function of adhesive glycoproteins (Integrins) on the surface of platelets and other cells. Experience in cell biology is desirable. Experience in protein biochemistry, cell culture and/or recombinant DNA techniques is desired. Send curriculum vitae, names of three references and copies of one to two publications to: Dr. Leslie V. Parise, Department of Pharmacology, CB 7365, 1106 FLOB, University of North Carolina, Chapel Hill (UNC-CH), NC 27599-7365. Telephone: 919-966-4383. UNC-CH is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA IRVINE

POSTDOCTORAL POSITIONS

Two positions are available to study the involvement of ion channels in lymphocyte activation. Projects include combined patch-clamp recording and video imaging of intracellular Ca++, cloning genes for ion channels, and determining the role of channels T and B lymphocytes and other cells. Experience in patch-clamping, cellular immunology, or molecular biology is desirable. Funding for 5 years has been secured for this project. Contact as soon as possible: Dr. Michael D. Cahalan, Department of Physiology and Biophysics, University of California, Irvine, CA 92717.

POSTDOCTORAL POSITIONS IN MOLECULAR GENETICS

Postdoctoral positions are available in (i) the regulation of human and mouse globin gene expression with emphasis on trans-acting factors; both cell transfection and transgenic mice assays are used and (ii) the study of T kinases (e.g. MAP acute phase protein) gene regulation. Send curriculum vitae to: Jerry Lingrel, Department of Microbiology and Molecular Genetics M.I. 524A, University of Michigan, Ann Arbor, MI 48109. 231 Bethesda Avenue, Cincinnati, OH 45267. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN PROTEIN CRYSTALLOGRAPHY

Three postdoctoral positions in protein crystallography will be available on or after 1 September 1988. This project emphasizes post-translational protein modification, including regulation and sequence of processing events, and HPLC oligosaccharide analysis. Experience in HPLC proteinchromatography is desirable. Experience in HPLC protein separation and/or HPLC protein analysis is required. Send curriculum vitae and the names of three references to: Dr. Hazel M. Holden and Ivan Raymond, Institute of Enzyme Research, 1710 University Avenue, University of Wisconsin, Madison, WI 53705. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

POSTDOCTORAL POSITIONS in MOLECULAR BIOLOGY at the University of Connecticut Health Center, Farmington, CT 06032. An Equal Opportunity Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

The position is to work on homologous recombination in human cells. This ongoing project is investigating the role of DNA and a highly specific high-copy sequence in the human genome. Experience in homologous recombination is desirable. The position is available immediately. Send curriculum vitae and a list of three references to: Dr. Susan Weiler, Department of Microbiology, University of Connecticut Health Center, Farmington, CT 06032. An Equal Opportunity Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

The Rockefeller University POSTDOCTORAL RESEARCH ASSOCIATE position involves research in Spectrometry and surface chemistry of biomolecules. The Laboratory of Mass Spectrometry is seeking a postdoctoral research associate to study the mass spectrometry and chemistry of biomolecules down to surfaces. Experience in peptide/protein chemistry is desirable. Send curriculum vitae and names of three references to: Dr. Ron Abercrombie, Department of Physiology, Emory University, Atlanta, GA 30322. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available 1 September 1988 for individual with a Ph.D. in biochemistry. Project concerns intracellular calcium regulation in neurons and includes a bio- chemical examination of calcium-binding proteins of neurofilaments. Applicants with experience in protein isolation techniques preferred. Send curriculum vitae and names of three references to: Dr. Ronald E. Mortenson, Department of Physiology, Emory University, Atlanta, GA 30322. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE positions available for recent Ph.D. Graduates in areas of (i) non-protein components of post-translational protein modification, including regulation and sequence of processing events, and HPLC oligosaccharide analysis; (ii) regulation of myelin gene expression: translational, transcriptional, and post-translational regulatory mechanisms. Send curriculum vitae and names of three references to: Joseph F. Poduslo, Ph.D., Membrane Biochemistry Laboratory, Department of Biochemistry and Molecular Biology, Mayo Clinic and Mayo Foundation, Rochester, MN 55905. Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

The Department of Materials invites applications for a POSTDOCTORAL RESEARCH POSITION in study of the growth and properties of superconducting thin films. Expertise in ultra-high vacuum, crystal growth, superconductivity, and electron microscopy are desirable. This is a one-year appointment with the possibility of limited reappointment on a yearly basis in accordance with applicable personnel policies and availability of funding. Please refer to position #EMP-11 and submit curriculum vitae and the names of three references to: Professor Arthur C. Gossard and Professor Pierre M. Petroff, Department of Materials, University of California, Santa Barbara, CA 93106. Applications must be received by 30 June 1988. Proof of U.S. Citizenship or Eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986). An Equal Opportunity/Affirmative Action Employer.

USDA—AGRICULTURAL RESEARCH SERVICE (ARS) POSTDOCTORAL RESEARCH ASSOCIATE—CELL BIOLOGIST

ARS is seeking a postdoctoral research associate—cellular biologist to determine the site of production and mechanism of action of transforming growth factor beta (TGF-β) and other polypeptide inhibitors of adipocyte differentiation. This is a 2-year position, salary commensurate with experience: $27,716 to $33,218. Applicants must have completed their Ph.D. within the past 2 years. Send curriculum vitae and three references to: Dr. Robert B. Kaelin, R. B. Russell Center, P.O. Box 5657, Athens, GA 30613. Telephone: 404-546-3584. USDA is an Equal Employment Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

needed for fall 1988 to study protein kinases in neural differentiation and renal morphogenesis in vitro. Experience with gel electrophoresis, FPLC, and HPLC is necessary. Experience in recombinant DNA or immunochemistry is desirable. Send curriculum vitae and three letters of reference by 30 June 1988 to: Dr. Robert G. Van Buskirk, Department of Biology, State University of New York, Binghamton, NY 13901.

POSTDOCTORAL RESEARCH ASSOCIATE

POSITION at a Medical Center available immediately. The area of concern will be biochemistry research in metalloenzymes. A Ph.D. degree in biochemistry or molecular biology is required, and a background in metal-protein chemistry as defined by experience in protein purification and characterization including metal chelation chromatography, basic protein chemistry, trace metal analysis and immunochemical assays is required. Familiarity with cell culturing is also expected. Salary will start at $22,000. Send curriculum vitae and names and addresses of references to: Utah Job Service, 1234 South Main, Salt Lake City, UT 84111. Job Order #93989219.


POSTDOCTORAL STUDENTS AND RESEARCH SCIENTISTS to work on the commercial scale-up of plant cell culture systems for pharmaceutical production. Applicants should have experience of plant cell suspension culture and/or bioreactor technology, with an interest in biochemistry or cell physiology. Competent sterile technique and a general background in plant tissue culture is assumed.

The successful applicant will be an employee of Vipont Research Laboratories, Inc. of Fort Collins, Colorado, and the work will be performed at the Plant Biotechnology Institute of the National Research Council (NRC) of Canada, Saskatoon, Canada.

A generous package will be offered depending on experience. Applicants should apply by sending resume, letters of recommendation along with names and addresses of three references by 17 June 1988 to:

Dr. Kenneth L. Giles
Plant Biotechnology Institute
NRC
110 Gymnasium Road
Saskatoon
Saskatchewan S7N 0W9
Canada

PROFESSOR AND HEAD, DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology, The University of Georgia invites applications for a headship position in this expanding department. The candidate should have an earned Ph.D. in microbiology or a related discipline and a commitment to undergraduate and graduate education, and outstanding leadership and administrative abilities. Consideration will be given to applicants with research interests in cell biology or closely related disciplines. The deadline for receipt of applications is 1 September 1988 with the goal of filling the position by 1 July 1989.

The University of Georgia is an Equal Opportunity/Affirmative Action Employer. It is committed to make an attractive and competitive offer. Send curriculum vitae and a list of at least four references to: University of Georgia, Procurement and Head Search Committee, Department of Microbiology, 1112 W. Patterson Drive, Athens, GA 30602.

Dr. Leonard Mortonsen, Biological Sciences, The University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.
Killam Memorial Chair in Science or Engineering

A bequest from the late Dorothy J. Killam has resulted in the endowment of two Killam Memorial Chairs in any area of basic science or engineering. These are senior appointments offered to distinguished individuals to permit them to carry on high level research and graduate teaching.

One of the Killam Memorial Chairs will become available on July 1/88. We are seeking outstanding candidates to fill this position. We invite nominations and applications on behalf of or from distinguished individuals interested in this Chair. Applications should be received before 1 August 1988. Enquiries, nominations and applications should be directed to:

Dr. C.R. James
Vice President (Research)
The University of Alberta
3-5 University Hall
Edmonton, Alberta, Canada
T6G 2J9

The University of Alberta is committed to the principle of equity in employment.

Postdoctoral Scientists
Molecular Genetics

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking additional Postdoctoral Scientists to expand its current research programs employing recombinant DNA technology.

Excellent opportunities exist for innovative interdisciplinary research in our new and superbly equipped Research and Development Center in suburban Philadelphia near Valley Forge, Pa.

The Department of Molecular Genetics is seeking outstanding Ph.D. Scientists to pursue research on:
- Molecular Genetics of T-cell activation
- Tumor necrosis factor action at the molecular and cellular level
- Molecular genetics of yeast (S. cerevisiae and C. albicans)

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Barbara J. Schwartz, 30054, Associate Employment Administrator, Smith Kline & French Laboratories, Research & Development Division, P.O. Box 1539, King of Prussia, PA 19406-0933. We are an Equal Opportunity Employer, M/F/H/V.

Senior Scientists
Molecular and Cell Biology Research

The LILLY RESEARCH LABORATORIES, a division of Eli Lilly and Company, is emphasizing its commitment to molecular and cell biology research. This has resulted in the following career opportunities for senior personnel in molecular immunology and molecular biology research programs.

Molecular Immunologist

We are currently seeking a doctoral level molecular biologist with a strong background in immunology. This individual will be expected to develop a research program centered around the molecular basis of the immune response and how it relates to disease states. Applicants should have two or more years postdoctoral experience and a research background in one or more of the following areas: mechanism of drug action, gene regulation, immune regulatory molecules and/or immunoglobulins. The senior scientist will have the opportunity to collaborate with immunologists, chemists, physical chemists, biochemists and other molecular biologists.

Molecular Biologist

An opportunity currently exists for a doctoral level scientist with a background in the use of a variety of mammalian gene cloning techniques. Extensive experience in the construction and screening of cDNA and genomic libraries leading to the successful expression of functionally active proteins will be essential. Applicants should have two or more years postdoctoral training and will be expected to develop and lead an independent research program within the Molecular Biology Department.

Successful candidates will be responsible for providing scientific leadership to these important areas of research. Broadly based scientific experience and good communication and organizational skills will be essential. The successful candidates level of entry and salary will be commensurate with their experience.

Eli Lilly and Company offers a professional environment and an attractive compensation package. For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager
Ph.D. Recruitment (MI/MB)
Eli Lilly and Company, Lilly Corporate Center
Indianapolis, Indiana 46285
Research Management

Tumor/Cell Biology

Triton Biosciences Inc. has an opening for a Research Manager/Staff Scientist to take charge of our tumor/cell biology group. This group is engaged in a variety of projects in the areas of tumor biology, growth factors, growth factor receptors, lymphokines, and oncogenes.

We desire an individual with an established record of research in one or more of the above fields. It is anticipated that the successful candidate will have 5-8 years experience beyond the post-doctoral level and preference will be given to those having industrial experience, including responsibility for a research group.

Triton Biosciences Inc. is an emerging fully integrated pharmaceutical and diagnostics company located in the San Francisco Bay Area. We offer competitive salaries and benefits including a full relocation package. For consideration, please send your C.V. and names of three references to: Triton Biosciences Inc., Box JJM, 1501 Harbor Bay Parkway, Alameda, CA 94501. Triton is an Equal Opportunity Employer.

Regional Medical Associates

Pharmaceutical Marketing

Currently we have openings in the Western and Rocky Mountain Regions for Regional Medical Associates to combine both scientific expertise and marketing skills. The selected candidates will report directly to the Regional Vice President and will be headquartered in San Francisco for the Western Region and Phoenix for the Rocky Mountain Region. Responsibilities are to establish effective relationships within key medical institutions, providing scientific liaison and in-depth information essential to appropriate use of SK&F’s products. Will also have training responsibility at the Representative, Medical Staff and Pharmacy levels. 30% travel.

Qualifications include a Ph.D. in Pharmacology, Biochemistry, Microbiology or other Life Sciences. Must possess initiative, strong communication skills, and interest in Marketing.

In addition to an independent work environment where personal and professional growth are a way of life, we offer an outstanding compensation/benefits package geared to today’s market. Please send resume and current earnings to: Box 89, SCIENCE (For the Western Region) or Box 90, SCIENCE (For the Rocky Mountain Region).

We are an Equal Opportunity Employer, M/F/H/V

Postdoctoral Positions

New England Biolabs, a pioneer and leader in biotechnology located twenty miles north of Boston, is seeking applicants for:

Gene Cloning in Streptomyces—Candidate should have a strong background in Streptomyces molecular biology to work on projects involving cloning, overproduction and mutagenesis of restriction-modification systems in Streptomyces.

Molecular Genetics—Candidate should have strong background in molecular biology or bacterial genetics to study the interaction between restriction-modification systems and the host cell.

In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

Candidates please submit curriculum vitae with three references to: New England Biolabs, Inc. Human Resources 32 Tozer Road Beverly, MA 01915-5510

NEW ENGLAND BIOLABS

BUILDING A NEW LAB?

LET THE SCIENCE FREE PRODUCT INFORMATION SERVICE PUT YOU IN TOUCH WITH THE VENDORS WHOSE PRODUCTS YOU WILL NEED.

SIMPLY WRITE US A LETTER STATING THE SPECIFICS ABOUT YOUR PROPOSED LAB AND WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
BS/MS SCIENTISTS

For more than a century, scientists at Eli Lilly and Company have developed innovative, high quality pharmaceutical products. In 1988, Lilly is investing more than $500 million in Research and Development programs. More than 3,000 scientists (at all degree levels) are involved in creative, multidisciplinary research in Lilly Research Laboratories and the Biochemical Development Divisions. We are seeking applicants for the following disciplines:

Biochemists
Positions are available in our Diabetes program which require experience in biochemical studies with isolated cell systems and animals. Effects of various new potential therapeutic agents on glucose hemostasis will be studied.

Additional positions are available in our Bio-synthetic Development and Technical Services areas. These positions involve protein synthesis, isolation, and purification as well as support for the manufacturing environment.

Demonstrated skills in experimental design and analysis are required in addition to excellent communication and organizational abilities. Successful candidates will be highly motivated individuals who can work independently.

Protein Chemist/Enzymologists
Two positions are available in the Molecular Biology Research Division requiring a BS with experience or an MS with training in protein chemistry and/or enzymology. Knowledge of protein/enzyme purification methodology is essential, including HPLC, column chromatography, and electrophoresis. Understanding of enzyme structure and/or interest in protein sequencing are desirable.

Organic and Analytical Chemists
Several positions are available in our Discovery Research Process Research and Development, and Technical Services areas. Candidates for these positions should have a BS or MS in Chemistry, with research experience in Synthetic Organic Chemistry. Excellent problem solving and organizational skills are also essential.

Lilly is also seeking candidates for positions in the Analytical Development and Control Laboratories. Candidates for these positions should have a BS or MS in Chemistry with experience and interest in Analytical Chemistry. Good communication and planning skills are also required.

Bioanalytical Chemist
Lilly is seeking candidates for two positions in the clinical research unit of the Drug Disposition Research Division. These positions will work closely with senior investigators in hospital laboratories to develop, evaluate, and implement quantitative bioanalytical methods to measure the adsorption, distribution, metabolism, and excretion of potential new drugs in Phase I clinical trials.

Candidates should have a BS or MS in Analytical Chemistry, Biochemistry, or a related area with experience in HPLC and computerized data acquisition and reduction. Experience with radiotracers, GLC, TLC, and immunoassays (especially as applied to drug metabolism) is also preferred.
POSTGRADUATE AND FACULTY RESEARCH APPOINTMENTS at the Bureau of Engraving and Printing in Washington, D.C.—Several positions available to participate in research projects involving chemistry, physics and technology of papers and polymers, printing processes, materials, microscopy, radiochemistry, analytical chemis- try, experimental design, process engineering and control, electronic engineering, optics, microscopy, spectroscopy, graphic and computer science, and artificial intelligence. Contact: Research Participation Program/EP, University Programs Division, Oak Ridge Associated Universities, Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-867-3190.

PROFESSOR OF BIOENGINEERING AND PHARMACEUTICS

The University of Utah Department of Bioengineering and Pharmaceutics anticipates a full professor joint position in the area of macromolecular science and engineering applied to medicine, pharmacy, and biotechnology. Candidates are expected to have an international reputation, want to develop a major externally funded graduate research program, play a major role in graduate education, and work with industry via the state of Utah Centers of Excellence Program. Applications are due 30 June 1988. A complete curriculum vitae, publication list, and a list of references should be sent to: Dr. K. F. Caldwell Department of Bioengineering University of Utah Lake City, UT 84112 Equal Opportunity/Affirmative Action Employer

PROTEIN BIOCHEMISTS

Cephalon, Inc., a neuroscience-biotechnology company is seeking: (i) Senior Scientist—Ph.D. or M.S. or more years of experience in the purification and characterization of low abundance proteins; will supervise purification team and coordinate activities with cell culture and molecular biology laboratories; (ii) Research Scientist—I to 2 years of postdoctoral experience in protein purification/characterization. Send curriculum vitae to: Cephalon, Inc., 145 Brandwyine Parkway, West Chester, PA 19380.

PROTEIN CHEMIST—postdoctoral or junior fac- ulty level—dual appointment, McLean Hospital/Harvard Medical School. To interface with protein chemistry faculty and coordinate protein analytic studies within a multi-disciplinary research environment. Research involves studies of posttranslational protein modification in regulating the dynamics of cytoskeleton and membrane proteins in neurons and other cellular systems. Experience in one or more of the following areas is required: gel electrophoresis (i.e., HPLC, FPLC, protein sequencing, amino acid analysis; related protein analytic techniques. For further information contact: Dr. Donald Hall, McLean Research Center, McLean Hospital, Belmont, MA 02178. Telephone: 617-855-2412.

RADIATION BIOLOGIST—University of Pitts- burgh anticipates a need for a radiation biologist— assistant professor. Duties: preparation and presentation of didactic lectures and laboratory experiments in gradu- ate courses; supervision of present research projects suit- able for outside sponsorship relating to biological effects of radiation and/or other related areas of interests; and participation in research. Ph.D. in required; post-doctoral experience useful for stu- dent instruction and supporting nuclear industries and governmental agencies. Send resume to: Chairman, Neil Wold, M.D., Department of Biomedical Sciences, University of Pittsburgh, Graduate School of Public Health, A533 Crabtree Hall, Pittsburgh, PA 15261.

RESEARCH EPIDEMIOLOGIST to study HIV infection in Africa. Requires M.D. with formal training in Tropical Medicine, Public Health and background of clinical practice in Africa and laboratory experience in infectious disease study design, performing immunologic assays, analyzing data and use of statistical packages. Periodic travel to Africa is requested. Foreign languages an asset. Salary negotiable. Send curriculum vitae and names of three references to: Dr. Peter Perine, c/o Civilian Personnel, Uniformed Services University of the Health Sciences, 431 Jones Bridge Road, Bethesda, MD 20814-4799.

POSITIONS OPEN

Minneapolis—University of Minnesota—Department of Psychiatry seeks a PSYCHIATRIST to fill a faculty position in psychopharmacology. The successful applicant will have a special interest in the treatment of psychiatric disorders and an ability to function as a consultant and attend at the psychiatric hospital. Contact: Dr. Perreault, Department of Psychiatry, University of Minnesota, 50 South 2nd Street, Room 203C, Minneapolis, MN 55401. Phone: (612) 626-4775.

RESEARCH ASSOCIATE to analyze clinical speci- mens for the presence of human papillomaviruses DNA* by nucleic acid hybridization. To hybridize with known HPV DNA. Applicants must have a Ph.D. in virology with experience. Contact: University Microbiology and Immunology, University of Minnesota, 1210 Gapas, Minneapolis, MN 55455 by 15 June 1989.

RESEARCH SCIENTIST position in the area of characterizing the differential expression of genes in response to exposure of mammalian cells to benzo[a]pyrene. Ph.D. in Biochemistry, Molecular Biology, or equivalent is required. Contact: Paul Perreault, Department of Environmental Health, School of Public Health, University of Minnesota, 1210 Gapas, Minneapolis, MN 55455. Phone: (612) 624-4999.

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FACULTY POSITIONS
MOLECULAR AND CELL BIOLOGY

Tumor Cell Biology Department seeks applicants for a research position in molecular and cell biology at the Assistant Member level. We are particularly seeking candidates with previous expertise in molecular and cell biology, biochemistry, or genetics who want to develop independent programs that complement and extend ongoing departmental activities. Current research within the department includes studies of growth factors, receptors, and oncogenes, primarily in hematopoietic systems, identification and characterization of genes which suppress the transformed phenotype; transcriptional regulation during blood cell development; and characterization of polypeptides that affect the assembly and transport of secretory proteins. The Department currently includes ten Ph.D. and M.D. faculty members engaged in full-time research and participating in an active postdoctoral training program. Candidates must have a doctoral degree, postdoctoral training, and a strong commitment to basic research with prospects for individual achievement. Generous start-up funds including technical support are available for junior faculty, and prospects exist for additional monies to complement ongoing grant funded research.

The institution is strongly committed to both basic and clinical research and includes other basic science departments in Virology and Molecular Biology, Biochemistry, Immunology, and Pharmacology. It has state-of-the-art equipment and resources and is presently undergoing major capital development and continued expansion of its research programs.

Applications including a curriculum vitae, brief statement of research interests, and the names of four referees should be submitted to:

Dr. Charles I. Sher, Chairman
Department of Tumor Biology
St. Jude Children's Research Hospital
Memphis, Tennessee 38104.

Equal Opportunity/Affirmative Action Employer.

UCAR Visitor Research Programs for
Senior and Postdoctoral Scientists

The University Corporation for Atmospheric Research (UCAR) announces the continuation of its Visiting Research Program, which provides research opportunities at the National Environmental Prediction and Research Facility (NEMPR) in Monterey, California, and the National Meteorological Center (NMC) in Camp Springs, Maryland. The program offers visiting research appointments in the atmospheric and related sciences at two of the premier R&D centers devoted to operational weather prediction in the United States.

Openings in the UCAR program include positions for senior and postdoctoral scientists. Remuneration will be commensurate with the experience of the scientists and local living costs, and will be competitive with analogous university and government appointments. Appointments will be for up to two years. No formal application form is required. Qualified scientists are encouraged to apply for these programs by sending a resume along with a statement of how their research interests and experience relate to the areas of scientific interest at the host institution. Applicants should designate their choice of program site and include a brief description of proposed work. All applications should include four professional references.

Application deadlines are 1 August 1988 or 16 January 1989. Send the required information to Meg Austin, Corporate Projects, UCAR, P.O. Box 3000, Boulder, CO 80307. For further information or to receive a flyer describing the program in more detail, please call at 303-497-8995.

RESEARCH FELLOW
A$28,942–A$42,174

DRYLAND CROPS AND SOILS RESEARCH UNIT
LABORATORY FOR RURAL RESEARCH
FLOREAT PARK, PERTH, W.A.

THE DIVISION: The Dryland Crops and Soils Research Unit is part of the Division of Plant Industry which undertakes research into improving agricultural production and the development of new and improved crop and pasture plants. The Unit of 7 scientists plus support staff is based in the Laboratory of Rural Research, Perth, Western Australia.

THE PROGRAM: The aim of the program is to develop management systems for dryland crop production in the coarse textured and textured contrast (dual) soils of the Mediterranean climatic zones of Australia. The two major interests of the unit are optimization of water and nitrogen use efficiency in lupins and wheat. The unit has laboratory, glasshouse, rainout shelter and growth cabinet facilities at Floreat Park and established field research sites at 3 locations across the cereal growing regions of Western Australia.

THE JOB: In conjunction with other scientists to conduct field and controlled environment studies on the carbon, water and nitrogen relations of wheat and lupins. In particular, to study the influence of water deficits and transient waterlogging on the remobilization of carbon and nitrogen in the plant and determine its influence on yield.

THE PERSON: Applicants should have a Ph.D. degree in agricultural science or equivalent qualification with research achievement in crop physiology. They should have a desire to work in the field as well as controlled environments and be prepared to work in a team with other scientists from the unit and from the W.A. Department of Agriculture. Experience in plant water relations is required and experience in the translocation of carbon and/or nitrogen is highly desirable.

CONDITIONS: Appointment will be for a term of 3 years with Australian Government Superannuation benefits available.

MORE INFORMATION: A copy of the detailed job description and selection criteria are available from Mrs Prue Yendle at the address below or by phoning 61-9-3874233. Applicants can obtain further information from Dr. N.C. Turner on 61-9-3874233.

APPLICATIONS: Applications should be submitted by Friday 1 July, 1988 and quote reference No. A0957 stating relevant personal particulars including details of qualifications and experience. Applicant should nominate at least two professional referees, and address their applications to:

Officer-in-Charge
CSIRO, Dryland Crops and Soils Research Unit
Laboratory for Rural Research
Private Bag, P.O. Wembley, W.A., 6014, Australia.

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Electron Microscopist

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., a major researcher, developer, manufacturer and marketer of prescription and over-the-counter drugs, currently has an opening at our Research and Development facility located in DANBURY, CONNECTICUT.

The ANALYTICAL SCIENCES Department is seeking an experienced Electron Microscopist to work in a multidisciplinary environment on applications related to a wide variety of pharmaceutical research and development problems. This scientist will be responsible for the start-up operations of the electron microscopy laboratory, from purchasing equipment to staffing personnel.

Minimum requirements include a Ph.D in Physical or Life Sciences with 3+ years experience relevant to investigation and physical characterization of pharmaceutical formulations by electron microscopy. Experience in biological applications of electron microscopy is also required.

Our state-of-the-art environment is combined with a highly competitive compensation/benefits package including relocation assistance.

Please send your resume and salary history to Dept. PTG-1S, R&D; BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.
POSITIONS OPEN

SENIOR FACULTY POSITION PROTEIN CRYSTALLOGRAPHY

The Rosenstiel Basic Medical Sciences Research Center and the Department of Biochemistry, Brandeis University, seek an experienced macromolecular crystallographer to head a new laboratory of Structural Biochemistry which is being established at the Rosenstiel Center. The appointee will participate in the recruitment of another faculty member who will share in the development of the Structural Biochemistry program. Funds have been allocated for the purchase of a new macromolecular crystallography instrument. Existing facilities for x-ray diffraction, electron microscopy, image analysis, NMR spectroscopy, enzymology, and protein chemistry will be available to support this program. The candidate for this position should be a recognized leader in macromolecular crystallography whose research would complement the ongoing programs in structural biochemistry at Brandeis. Applicants should submit curriculum vitae and a description of research plans to: Dr. Hugh H. Huxley, Search Committee, Rosenstiel Center, Brandeis University, Waltham, MA 02254.

Brandeis University is an Affirmative Action/Equal Opportunity Employer.

SUPERVISING NEUROSCIENTIST

The U.S. Army Medical Research Institute of Chemical Defense is seeking a neuroscientist, GM 14, (physiologist, pharmacologist, or psychologist) to serve as Chief of the Neurotoxicology Branch, Pathophysiology Division. Responsibilities include planning and supervising the research program and supervising assignments of fifteen to twenty civilian and military personnel and contractors concerned with investigations of the mechanisms of action of (and resistance to) chemical agents and anticholinesterase inhibitors, and/or neurotoxic threat agents. The goal of these research initiatives will be the development of and implementation of new threat treatment regimens for neurotoxic agents. Qualified applicants should have an extensive and varied professional background in electrophysiology, neuroanatomy, neurophysiology, neuropharmacology, statistics, computer science, clinical psychology, and neurotoxicology as well as experience in multidisciplinary research program planning and administration. The candidate will hold a Ph.D. or M.D. in one of the basic sciences, psychology, pharmacology, or a closely related discipline. Salary range: $46,000 to $60,000. U.S. citizenship is required and must be able to obtain a security clearance. Send resumes by 1 July 1988 to: Commander, U.S. Army Aberdeen Proving Ground. Attention: STEAP-PA-CR-D (Ms. Byrnum), Aberdeen Proving Ground, MD 21005-5001. Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION NEUROPSYCHOPHARMACOLOGY

The Department of Psychiatry, State University of New York at Stony Brook, invites applications for a tenure-track faculty position in the field of neuropsychopharmacology. M.D. or Ph.D. in a neuroscience-related discipline with research experience of $100,000 or more and several years of experience is required. Candidates whose research involves major psychiatric disorders, regulation and interaction among neurotransmitter systems, and/or mechanism of psychotropic drugs preferred. Position is available June 1988. Salary and academic rank commensurate with experience. Send curriculum vitae, description of research interests and plans, along with the names and addresses of three references to: Rex Wang, Ph.D., Chairman, Search Committee State University of New York, Department of Psychiatry and Behavioral Science Pathman Hall, South Campus, SUNY Stony Brook, Stony Brook, NY 11794-8790. SUNY Stony Brook is an Affirmative Action/EQUAL Opportunity Employer and an Affirmative Action/EQUAL Opportunity Educator and Employer. AK#121.

NOTICE

NOTICE TO URINE TOXICOLOGY TESTING SYSTEM VENDORS

This is an invitation to Vendors wishing to provide an integrated urine toxicity testing system to be operated by Correctional Officers and administration of the New York City Department of Correctional Work Release Program. Those interested in receiving a copy of the Inmate Urine Toxicology Testing Program Request for Proposal (RFP) please contact: 718-561-2419 or Dr. Burton F. Schall at 212-266-1072.

POSITIONS OPEN

UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE DEPARTMENT OF ANATOMICAL SCIENCES

TENURE-TRACK POSITIONS available in department under new leadership as of July 1988. Opportunities for teaching in embryology, gross anatomy, neuroanatomy to health professional and graduate students, and development of or participation in quality research. Candidates should have a Ph.D., M.D., or equivalent degree, and at least 2 years of postdoctoral research experience in cell biology or the neurosciences. Rank commensurate with experience. Salary negotiable. Application deadline: 14 August, 1988.

Curriculum vitae should be directed to: Search Committee, Department of Anatomical Sciences, College of Medicine, Oklahoma Medical Research Foundation, 1520 North 合同, Oklahoma City, OK 73190.

Equal Opportunity/Affirmative Action Employer.

GRANTS

The American Health Assistance Foundation is accepting 1-year GRANT applications for Alzheimer's disease research with a September 30, 1988 deadline. Application deadline: 30 October 1988. For further information, please write to: American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140 Rockville, MD 20850

FELLOWSHIPS

The Department of Psychiatry is offering a FELLOWSHIP IN ALCOHOL/DRUG DEPENDENCE for physicians licensed in the United States who have had at least three and preferably 4 years of previous training in a primary care field (including psychiatry). Training includes inpatient, outpatient, consultation-liaison, day and evening programs, teaching, administration, and research. Send correspondence, including resume and three letters of reference to: Joseph Westermeeyer, M.D., Director, Alcohol-Drug Treatment Program, University of Minnesota Hospitals, Box 393 Mayo, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

LUPUS RESEARCH SCHOLAR AWARD PROGRAM

Terri Gotthelf Lupus Research Institute invites applications and nominations for five scholarships available 1 July 1989. The purpose of this program is to support research training at the postdoctoral level in various aspects of clinical and experimental lupus erythematosus research. Candidates with a Ph.D. or M.D. degree, having U.S. citizenship or residence, are eligible to apply. A candidate must be nominated by a scientist in whose laboratory the proposed research will be conducted. The award is for a period of 3 years, in the amount of $90,000. The deadline for filing is 15 August 1988. Information and specific requirements are available upon written request only from: Terri Gotthelf Lupus Research Institute, 50 Washington Street, South Norwalk, CT 06854.

POSTDOCTORAL FELLOWSHIP (Microbiologist) in the Ocular Microbiological Laboratory, Department of Ophthalmology, Baylor College of Medicine, Houston. Opportunity for motivated individual with Ph.D. in microbiology or infectious disease. Will be involved with NIH and privately funded studies of the biology and pharmacology of Aspergillus. Please send curriculum vitae and names of three references to: R. M. Wilson, M.D., Callen Eye Institute, One Baylor Plaza, Houston, TX 77030.

FELLOWSHIPS

The Department of Botany, University of Alberta invites applications for the NSERC, UNIVERSITY RESEARCH FELLOWSHIP (URF) Program. We are interested in individuals with a strong commitment to excellence in teaching and research, and who will develop active research programs and existent strengths in the Department. We are prepared to sponsor a URF in one of the following three areas: (i) plant membrane biology—investigation of membrane composition, structure, and function as it relates to the response of plants to their environment; (ii) wetland ecology—a field-oriented ecosystem or community approach to the investigation of marshes and peatlands; (iii) lichenology—ecology, physiology and taxonomy of lichens. Interested applicants should submit a résumé, a statement of research interests, reprints of three published papers, and the names and addresses of four potential referees by 1 August 1988. Dr. Kenneth E. Doden, Chairman, Department of Botany, University of Alberta, Edmonton, Alberta, T6G 2E9, Canada.

The University of Adelaide, South Australia, invites applications from both women and men for two POST-DOCTORAL RESEARCH FELLOWSHIPS available immediately until 31 December 1990 in the Department of Entomology at the Waite Agricultural Research Institute. Both successful applicants will join a small team working on the microbial control of insect pests. Position is dependent on the availability of funds. The successful applicant will work on the genetic manipulation of Bacillus thuringiensis and related bacteria, and develop insecticidal preparations for field use. Position 6653: Biochemist. The successful applicant will work on the purification and analysis of bacterial toxins affecting insects. Both positions will be given to applicants with expertise in peptide biochemistry. Further information may be obtained from: Professor D. E. Finnock, Chairman, Department of Entomology. Annual salary: Aus$24,846 + 5% Aus$2,852. Applications in duplicate quoting reference number 6652 or 6653, giving personal particulars (including whether candidate holds Australian permanent residence status), résumé and names and addresses of three referees should reach: The Registrar, University of Adelaide, GPO Box 498, Adelaide, South Australia, 5001, Telex UNIVAD AA 89141 not later than 24 June 1988. Applicants are requested to ask their referees to forward their reports directly to: The Senior Assistant Registrar (Personnel) before the closing date. The University is an Equal Opportunity Employer.

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The GSF is a national research center with 1,650 employees, funded by the Federal Republic of Germany and the State of Bavaria. Its activities concentrate on the protection of man and his environment from hazardous effects, and on the improvement of health care.

An internationally qualified scientist is invited to apply for the position of

**Director of the Institute of Epidemiology**

which is to be established. The institute shall continue the previous epidemiological work of the Institute for Medical Informatics and Health Services Research (medis), in close co-operation with the clinical and empirical research groups of the GSF, and it shall start new especially environment-oriented activities. Co-operation between the Institute of Epidemiology and the Technical University of Munich will be encouraged. The payment corresponds to salary class C 4 (equivalent to that of a full professor in the Federal Republic of Germany).

Applicants should send their documents (curriculum vitae, certificates, list of publications) not later than June 30, 1988, to the Scientific Director, Prof. Dr. H. W. Levi.

**Gesellschaft für Strahlen- und Umweltforschung mbH München**

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