**Prize Competition**

announced by the

**Anna Monika Foundation**

for the investigation of the biological substrate and functional disturbances of depressions by approval of the Minister of the Interior of Nordrhein-Westfalen, Düsseldorf, 9th June, 1965.

The Foundation announces the following prizes:

<table>
<thead>
<tr>
<th>Prize</th>
<th>Amount</th>
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<tbody>
<tr>
<td>First Prize</td>
<td>US-Dollar 15,000,-</td>
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<tr>
<td>Second Prize</td>
<td>US-Dollar 10,000,-</td>
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<tr>
<td>Third Prize</td>
<td>US-Dollar 5,000,-</td>
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preferably for studies of biochemical, histological, neurophysiological, neuropathological, psychopharmacological, psychiatric or psychosomatic nature. The studies should be carried out in close cooperation with a psychiatric clinic, an university or an equivalent scientific institution. As fast as possible, the papers should give information about recent advances in knowledge that should be helpful in promoting treatment and would open new paths of progress. The papers may be written in German, French or English and should be submitted to the Chairman of the Committee, Prof. H. H. Hülshelen, Berlin/Germany. Besides hitherto unpublished studies, papers published in the past two years in an international professional journal may also be submitted. Deadline for submission to the Committee is 30th September, 1990. To help the Committee to come to a speedy decision, it is requested that a maximum of three publications in four copies as well as a summarizing report (approx. 600 words) of the studies submitted for the competition should be included. Prizes will be awarded until end of July, 1991. If, in the opinion of the Committee, no papers of sufficient merit are submitted, it reserves the right to present no award. Prizes and their amounts will be awarded according to the merits of the study in question. Subject to the committee's decision, each prize can be divided between two papers.

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Rorer Chemical Research, a division of Rorer, Inc., a worldwide ethical pharmaceutical company, has an immediate opening for a SENIOR RESEARCH SCIENTIST in the R&D/Drug Disposition Department. Responsibilities of the successful candidate will be to design and perform analytical chemistry/Pharmaceuticals. Incumbent will oversee and supervise the group in the development of novel enzyme inhibitors and the growth of interest, to develop and implement strategies for directed drug design. Send curriculum vitae and names of references to: Dr. John J. Taylor, Chemistry and Biochemistry, University of Texas, Austin, TX 78712. Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR, VIO-LOLOGY. Full-time research faculty position immediately available at the University of Virginia Health Sciences Center. Noncontemporary 2-year appointment at assistant professor level. Focus will be on detection of pirocunisitis infections. Ph.D. in Medical Microbiology. Acceptable education may include study in clinical microbiology. Salary commensurate with qualifications. Contact: Frederick G. Hayden, M.D., Department of Internal Medicine, University of Virginia Health Sciences Center, Charlottesville, VA 22908.

RESEARCH ASSISTANT PROFESSOR OF INTERNAL MEDICINE. Two noncontemporary post-doctoral positions in basic research in experimental and clinical mapping of cardiac fields. Position requirements include a doctoral degree in electrical engineering, computer science, or one of the biomedical sciences. Additionally, applicants must have demonstrated expertise in and training in (i) mapping of cardiac fields, (ii) advanced systems and applications of signal processing, and (iii) computer modeling. Evidence of previous independent research is desirable. Applications should be received by May 1990. Applications received after that date may be considered if no qualified candidates have applied by that time. Send résumé and references to: Dr. M. L. Berges, CVRTI, Building 100, University of Utah, Salt Lake City, UT 84112. An Equal Opportunity/Affirmative Action Employer.

TARGETED DRUG DELIVERY POSITION. A full-time tenure-lead position is available in the University of Nebraska College of Pharmacy for a faculty member with research interests in new drug development for controlled drug delivery and who can contribute to the genetic engineering program of the College. Applicants should provide evidence of current research in the area of drug delivery and a strong record of publication. Applicants should have a Ph.D. in physical chemistry, pharmacy, or a closely related field. Applicants should be actively engaged in research and have a strong interest in drug delivery. Salary will be commensurate with qualifications and experience. Applicants should send a current vita and the names of three references to: Chair, Search Committee, 507-0965, Department of Pharmaceutical Sciences, College of Pharmacy, University of Nebraska Medical Center, Omaha, NE 68198-0615. The University of Nebraska is an Equal Opportunity/Affirmative Action Employer.

BIODATA/ANTHROPOLOGISTS

The Primate Biology Group of Northwestern University's newly formed Department of Cell, Molecular, and Structural Biology at the Medical/Dental Schools is seeking applications from anthropo-geographic biologists. Level and start date are flexible, and applications are being accepted immediately. Research interests may vary among the area of primate biology; some possible specializations include paleoanthropology, molecular evolution, functional anatomy and biomechanics, growth and development, and craniofacial biology. The successful candidate will participate in a team-taught course in human gross anatomy (or other first-year medical/dental course) and history. The curriculum will emphasize research, professional, and interpersonal skills, and course requirements will be announced. Inquiries should be directed to: Dr. Brian Shea, CMS Biological Science, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611.

The University of Florida is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

Positions Open

ASSISTANT PROFESSOR, PHARMACOLOGY

Ladder faculty position will be filled in the area of structural analysis of drugs and macromolecules. Focus on some aspect of potential cancer therapy, such as oncogenes, growth factor receptors, or signal transduction mechanisms involved in receptor-mediated molecular modeling and computational resources that have been established in Baltimore. The University of Maryland at Baltimore offers a variety of positions in the area of biological chemistry, with a strong emphasis on computational chemistry, and the opportunity to participate in interdisciplinary research programs. The successful candidate will have a PhD in Biochemistry, Molecular Biology, or a related field. Applicants should have a strong background in computational chemistry and a record of successful research. The search committee will review applications on an ongoing basis. Send curriculum vitae, statement of research interest, and the names of three references to: Dr. James H. Fuller, Chair, Search Committee, Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD 21201. Equal Opportunity/Affirmative Action Employer.

Positions Open

ASSISTANT/ASSOCIATE PROFESSOR, ANATOMY. Applications are invited for a full-time, tenure-track faculty position. The position will be available in September 1990. Applicants must have a doctoral degree and postdoctoral experience. The University of Maryland at Baltimore offers a variety of positions in the area of biological chemistry, with a strong emphasis on computational chemistry, and the opportunity to participate in interdisciplinary research programs. The successful candidate will have a PhD in Biochemistry, Molecular Biology, or a related field. Applicants should have a strong background in computational chemistry and a record of successful research. The search committee will review applications on an ongoing basis. Send curriculum vitae, statement of research interest, and the names of three references to: Dr. James H. Fuller, Chair, Search Committee, Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD 21201. Equal Opportunity/Affirmative Action Employer.
BOTANIST/ECOLOGIST sought for 1990–1991 academic year. The Department of Botany at the University of California, Davis seeks a qualified and experienced candidate with an MS degree in botany, or a Ph.D. in plant biology. Candidates should have experience in research and teaching in the area of plant systems biology. Applicants should submit a letter of application, curriculum vitae, and three letters of recommendation by 15 May 1990 to: Dr. James R. Alcorn, Chair, Department of Botany, University of California, Davis, CA 95616. Equal Opportunity Employer.

Chairs, SURGICAL RESEARCH. Appointments are being made for the Long Chair of Excellence in Surgical Research, an endowed chair position. Candidates must hold an M.D. and be board certified in surgery and be eligible for appointment at the rank of Professor or Associate Professor. Candidates must have proven administrative, teaching, and research experience in basic or clinical surgical research and be able to provide leadership in surgery as well as in allied fields. A Ph.D. or M.D. degree is preferred. Candidates must have demonstrated research productivity and be capable of attracting substantial support from foundations and other extramural sources. Candidates will be considered who have shown evidence of successful leadership in clinical and/or basic research and who have achieved significant recognition in surgical research. Applications should include a letter of nomination, a concise summary of current research interests, a curriculum vitae, copies of recent publications, a statement of research plans, and a list of three references. Applications should be sent by 15 May 1990 to: Dr. John E. H. H最适合SPECrROMETRIST

A SPECrROMETRIST is needed for the Mass Spectrometry Facility of the Department of Chemistry. The Mass Spectrometry Facility is a part of the Department of Chemistry and is under the direction of Professor J. W. Bailey. Applications should be sent by 15 May 1990 to: Dr. J. W. Bailey, Department of Chemistry, University of California, Davis, CA 95616. Equal Opportunity Employer.

Applications are invited for the position of Senior Biomedical Mass Spectrometrist. The position is available immediately. The successful candidate will be expected to conduct research and development of new techniques in biomedical mass spectrometry. The position is limited to a 3-year term, with possibility of renewal. Salary is $40,000 per year. Applications should be sent by 15 May 1990 to: Dr. J. W. Bailey, Department of Chemistry, University of California, Davis, CA 95616. Equal Opportunity Employer.

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The following positions are available at the National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Public Health Service:

(1) Investigator whose program will complement existing research activity. Applicants specializing in innovative biological electron microscopy, image processing, or X-ray crystallography are particularly encouraged. The successful applicant will have a productive track record attesting exceptional promise for future development.

(2) Postdoctoral Fellow(s) to participate in ongoing research in high-resolution biological electron microscopy including cryo-electron microscopy and image processing. An extensive range of projects in virus assembly, the cytoskeleton (intermediate filaments), biomembranes, fibrous proteins, and image processing algorithms are pursued in a well-equipped laboratory.

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Dr. A.C. Steven
National Institutes of Health
Building 6, Room 114
9000 Rockville Pike
Bethesda, MD 20892

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**KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH**

Kuwait Institute for Scientific Research (KISR) is a nonprofit organization with a staff of more than one thousand employees engaged in applied research in the fields of environmental and earth sciences; water resources; food resources; engineering; petroleum, petrochemicals and materials and techno-economics.

KISR has a vacancy in the following field:

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- **Major Duties:**
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  - Determining land suitability for irrigated agriculture and cropping patterns
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  - Suggesting possible solutions for drainage, salinity and irrigation constraints.

- **Qualifications:**
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  - Excellent knowledge of laboratory and field work of physical and chemical properties of soils in addition to good understanding of soil surveys and irrigation systems.

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Director General
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P.O. Box 24885 Safat
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CURATOR, Provacci-Guillard Center for Culture of Marine Phytoplankton (CCMP). Duties include supervision of the curatorial staff and maintenance of cultures, computerized data base, culture facilities, and associated laboratories. Experience in algal isolation and cultivation of algae; electron microscopy and molecular biology experience is desirable. Ph.D. or M.S. with extensive experience in algal culture, salary commensurate with experience. The CCMP is the largest marine algal culture collection, serving an international community of scientists and industry. The CCMP is part of Bigelow Laboratory for Ocean Sciences and is a center for study of marine phytoplankton that encourages on-site research using algal cultures. The CCMP is expanding and new facilities will be available. There is ready access to the educational and cultural amenities of the Twin Cities of Minneapolis and St. Paul.

Candidates should have a Ph.D. plus 7 years of academic experience, a broad view of freshwater biology, and creative ideas for its future. A well-established reputation in some field of aquatic biology or related area, a record of substantial grant support, and administrative and leadership skills are also required. The position entails leading an active research program with four other faculty in the CCMP, including two junior positions yet to be filled, and administering a substantial endowment. The director will also be responsible for studies ranging from the molecular to the ecosystem level, and to take an active role in integrating the institute's activities with other university programs in freshwater biology, limnology, and aquatic ecology.

Appointment will be at the full professor level. Preferably, tenure will be in a department of the College of Biological Sciences (Ecology, Evolution, and Behavior; Plant Biology; Genetics and Cell Biology; Biochemistry), although other options are possible. Salary will be commensurate with qualifications.

Applications (with résumés and names of three referees), nominations, and requests for further information should be addressed to: Dr. E. G. G. Regier, Regier's Professor of Ecology, University of Minnesota, 318 Church Street S.E., Minneapolis, MN 55455. Telephone: 612-624-4207. Last date for receipt of application is 30 June 1990. The University of Minnesota is an Equal Opportunity Employer and Employee and specifically invites and encourages applications from women and minorities.

MARINE BIOLOGIST: One-year position, assistant professor or instructor, Ph.D. preferred, beginning fall semester, 1990. Teaching responsibilities include principles of marine biology, marine ecology, and animal diversity. An independent research project will be stipulated. Ph.D. in marine sciences or equivalent required. Position division courses in marine biology, invertebrate biology and participation in senior research program, plus January intersession advanced computer applications in biology teaching and research would be helpful. Send letter stating teaching philosophy along with curriculum vitae and names and addresses of three references to: Dr. M. Collette, Chair, Department of Biological Sciences, California Lutheran University, 60 West Camarillo Road, Camarillo, CA 93010. Applications will be reviewed beginning 11 May 1990.

LABORATORY MANAGER IMMUNOLOGY/RHEUMATOLOGY

A Ph.D. with experience in immunology and molecular biology techniques is sought to apply these research skills to pediatric primary immunodeficiency disease and autoimmune rheumatic disease.

Managerial skill will be helpful to direct this diagnostic laboratory (three medical technicians, fellows, students, etc.) which is housed in the Department of Pediatrics of Northwestern University; a joint appointment in a basic science department may be arranged. The applicant is expected to obtain NIH grant support.

In order to ensure full consideration, qualified individual should submit résumé by 15 May 1990. Résumés can be sent to: Dr. Robert M. Witsell, Laboratory Director, Children's Memorial Hospital, 2300 Children's Plaza, Chicago, IL 60614. An Equal Opportunity Employer, M/F.

NMR FACILITY MANAGER. NMR spectroscopist wanted to establish and maintain the high-field, multi-dimensional NMR facility in a new laboratory in the Department of Biochemistry and Molecular Biology at Washington University School of Medicine. A Ph.D. in Chemistry or Biochemistry is preferred, although candidates with a bachelor's or master's degree and at least 3 years of experience in NMR spectroscopy are encouraged to apply. Good communication and interpersonal skills, a background in electronics, and experience in 2D NMR methods are highly desirable. Salary is negotiable and commensurate with experience. Send résumé and three letters of recommendation to: Gary K. Ackers, Witcoff Professor and Chairman, Department of Biochemistry and Molecular Biology, Washington University School of Medicine, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110. Washington University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

Ph.D. in microbiology/immunology. The Department of Health Sciences at East Tennessee State University (ETSU) seeks applicants for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level opening in August 1990. The position requires teaching of undergraduate and graduate courses in microbiology and immunology, development of a fundable research program, and direction of graduate students. Screening of applicants will begin in April 1990. Rank and salary will be commensurate with experience. Send curriculum vitae, a description of research interest, and the names of three references to: Dr. Michael T. Gallagher, Chairman, Department of Health Sciences, East Tennessee State University, Johnson City, TN 37614. ETSU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN MARINE BIOLOGY

The University of Georgia Marine Laboratory invites applications for a tenure-track, 10-month research faculty position with initial contract for 3 years at the level of ASSISTANT, ASSOCIATE, OR FULL PROFESSOR. This position is important to the university's ongoing research in the areas of population genetics and larval ecology, but other areas of interest will also be considered. The position will be available October 1990. A Ph.D. in an appropriate field and research experience is essential. In addition to developing an active research program, responsibilities include supervision of M.S. level graduate students and teaching approximately six contact hours per week. Excellent facilities are available for marine biological research. Applicants should send curriculum vitae, name and address of three references, and a brief statement of research interests to: Dr. Claudio Basilio, Professor and Chairman, Department of Marine Biology, UGA Marine Center, E50 First Avenue, S.W., Savannah, GA 31410. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN MARINE BIOCHEMISTRY

The School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, seeks an outstanding scholar/scientist with a strong background in marine biochemistry as it relates to environmental toxicology or pathobiology for an ASSISTANT/ASSOCIATE/FULL PROFESSOR position. Successful applicant will be expected (i) to teach a graduate level course in marine biochemistry and other courses in related areas, (ii) to supervise graduate students at the master's and Ph.D. level in application of biochemical methods to problems in marine toxicology and pathobiology, and (iii) to maintain an internationally recognized research program in marine environmental toxicology or marine pathobiology. Candidates should have a strong background and demonstrated ability to teach and to conduct independent research. Application review will begin 1 June 1990.

Send letter of application, current résumé, and statement of research goals and plans to: Dr. Morris H. Karmy, Chairman, Search Committee, School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA 23062. The College of William and Mary is an Equal Opportunity Employer. Women and minorities are encouraged to apply.
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The successful applicant will have an established reputation in research, demonstrated administrative capability and a commitment to support teaching at the undergraduate and graduate levels. The position is available September 1, 1990.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Applications with a detailed curriculum vitae and the names of three references should be sent by June 30, 1990 to:

Dr. David Hawkins, Chair
Search Committee for Associate Dean
Basic Medical Sciences
Faculty of Medicine
Health Sciences Centre
Memorial University of Newfoundland
St. John's, Newfoundland
Canada A1B 3V6
Telephone: (709) 737-6602
FAX: (709) 737-6400

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Scientist
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This position will afford the opportunity to participate in a stimulating temporary assignment utilizing state-of-the-art facilities. Please send resume with salary history and requirements to: Staffing Center, CIBA-GEIGY Corporation, Pharmaceuticals Division, Dept PD, 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/H/N.

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FLINDERS MEDICAL CENTRE
SOUTH AUSTRALIA

CHIEF HOSPITAL SCIENTIST (SC-5)
DEPARTMENT OF SURGERY

Applications are invited for the position of Chief Hospital Scientist responsible for Scientific Services in the Department of Surgery, Flinders Medical Centre, South Australia.

The Flinders Medical Centre is a 500-bed tertiary care teaching hospital integrated with the School of Medicine of the Flinders University of South Australia. The Centre is located in the city of Adelaide and provides clinical and laboratory services in the southern sector of the State, undertakes both medical research and applied development, and contributes to medical and scientific education programmes.

The Department of Surgery provides a wide range of clinical, scientific and surgical services to the Flinders Medical Centre. The Department is structured on a Unit basis with Professor Marshall as the Chairman and Head. Each Unit is headed by a Director or Senior Director who is immediately responsible to the Chairman of the Department.

Duties: The successful applicant will be responsible for the Scientific Services Unit, which currently provides scientific diagnostic and research support in the broad fields of breast, gastrointestinal and urological disorders.

The Laboratories in these three main sections come under the immediate jurisdiction of a hospital scientist; a fourth section with associated diagnostic laboratory and research services may be created upon the appointment of the Scientific Director, depending upon the individual’s expertise and field of scientific interest.

The incumbent will be expected to direct and implement his/her own personal research with a high level of productivity, liaise on a collaborative basis with senior scientists and with senior members of other surgical units regarding the execution of shared research projects, and oversee and co-ordinate the administrative and diagnostic service aspects of the Scientific Services Unit.

Qualifications: The successful applicant will be expected to have 10 years postdoctoral experience, an established research track record in his/her field of expertise, and demonstrated managerial skills.

Salary: Will be in the range A$50,541 – A$51,914. The position is permanent and the successful applicant will be eligible for superannuation benefits.

Queries To: Telephone or FAX enquiries are welcome and should be directed to Prof. V. Marshall Tel (08) 275 9391; FAX (08) 275 9450.

Applications including a full curriculum vitae and the names, addresses and telephone numbers of three referees should be sent to the Senior Personnel Officer, Flinders Medical Centre, Bedford Park 5042, South Australia.

Closing Date: 18th May 1990.

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MOLECULAR BIOLOGISTS

PHARMAGEN, a new biotechnology research company to work on the development of DNA probe diagnostic assays for the detection of pathogens and genetic diseases, has immediate openings for Ph.D. molecular biologists. The candidates should be familiar with recombinant DNA standard technologies, nucleic acid purification cloning, sequencing, PCR and molecular hybridization. One or two years of postdoctoral experience plus good knowledge of the English language are required. Years of research in a foreign country would be advantageous.

PHARMAGEN, a subsidiary of Zeltia, S.A., based north of Madrid in the community of Tres Cantos, offers personal satisfaction, professional opportunities, competitive salaries and an excellent benefits package.

For prompt consideration and confidential review, qualified candidates should send a c.v. including references to:

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28760 TRES CANTOS
MADRID, SPAIN
SKIN CANCER GENETICIST. We are seeking an individual with expertise in skin cancer research with animals to establish a new laboratory in our Department of Genetics. The successful candidate will be expected to develop a long-term program on UV-induced skin cancer and to collaborate with members of our laboratories of molecular genetics, biochemical genetics, immunology, and quantitative genetics, and cell biology. This position will be a critical component of a major new research initiative in addition to our strong research program of mouse drosophila, which is a unique model for UV-induced melanoma. Research with rodents, human subjects, and our pedigreed colony of 3200 baboons also is possible. Academic rank will be commensurate with experience. This is an excellent opportunity for a creative scientist to have a leadership role in an expanding genetics department. Mail resume, statement of research interests, and names, addresses, and telephone numbers of three references to: Personnel Director (001), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228–0147. Equal Opportunity Employer, M/F.

MOLECULAR BIOLOGY VIROLOGY RESEARCH MAYO CLINIC–ROCHESTER

The Division of Experimental Pathology and Laboratory Medicine at Mayo Clinic, Rochester, Minnesota, is seeking an established investigator to carry out a program of basic research into the molecular mechanism and pathogenesis of herpesvirus infections. Candidates for this position must have demonstrated original research in molecular virology techniques with an established track record of successful investigation in the field of virology. This is an excellent opportunity for an individual to carry out basic research in a clinical environment. We seek an individual who is interested in the problems of viral latency and reactivation in organ transplantation. State of the art facilities, space, equipment, and start-up support and the extensive resources of the Mayo Clinic research community will be available to the incumbent. Qualified candidates should submit detailed curriculum vitae and bibliography to: Thomas F. Mayer, Ph.D., Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN 55905.

An Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICS/PSYCHOBIOLOGY

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with the Department of Pharmacology and/or the Department of Biomedical Sciences. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with the molecular tools of biotechnology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous resource and start-up funds for an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: Toshikazu Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST/PSYCHOPHARMACOLOGY

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with the Department of Pharmacology and/or the Department of Biomedical Sciences. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with the molecular tools of biotechnology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous resource and start-up funds for an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: Toshikazu Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGY

ASSISTANT PROFESSOR, 12-month position available 1 July 1990. Teach pharmacology to premedicine, pharmacy, and osteopathic students and participate in the committee structure of the university. Ph.D. required. Letter of application, complete résumé, and three letters of recommendation should be sent to: Harold Laubach, Ph.D., Associate Dean for Basic Science, Southeastern University School of Health Sciences, 3200 Fairview Street, North Miami Beach, FL 33612. EQU/HIS is an Affirmative Action/Equal Opportunity Employer.

PLANT MOLECULAR BIOLOGIST

The Competitive Research Grants Office of the U.S. Department of Agriculture (USDA) seeks a qualified scientist to serve as ASSOCIATE PROGRAM MANAGER for grants administration in the areas of plant genetics, plant molecular biology, and plant growth/development. Candidates must have a B.S. or higher major study in molecular biology, plant biopharmaceuticals, or a closely related discipline and must have had at least ten semester hours of plant physiology. In addition the candidate must have a Ph.D. or equivalent experience directly related to molecular biology.


POSTDOCTORAL POSITION. Mechanism of action of smooth muscle relaxant by phosphorylation, and the role of actin-bound muscle protein. Techniques include site-directed mutagenesis, analysis of mutant proteins by biochemical methods, use of monoclonal antibodies as probes of myosin function, and in vitro motility assays. Send curriculum vitae and references to: Dr. Kathleen Trybus, Rossmore Research Center, Brandeis University, Waltham, MA 02254. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: NEUROPHARMACOLOGY. Immediate opening to study the actions of phenylcyclidine on dopamine neurons. Experience in in vitro and in vivo techniques and experience with brain slices is preferred. Position for 2 to 3 years. Salary negotiable. Send curriculum vitae and three letters of recommendation to: Elizabeth L. Lawrence, Ph.D., Department of Pharmacology, University of Arizona, College of Medicine, Tucson, AZ 85724. An Equal Opportunity/Affirmative Action/Title 6 Section 504 Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Two- to three-year position to study molecular mechanisms in neuroendocrine/nervous diseases. Available immediately. Requires experience with current and/or experience with PCR or cDNA techniques. Expected to carry out research on immune response. Send curriculum vitae, three letters of recommendation, and publications to: Robert Bartlett, Ph.D., Department of Medicine, Box 2900, Duke University Medical Center, Durham, NC 27710.
The Biomedical R&D Division of GEO-CENTERS, INC. has immediate openings for technical staff positions in support of our R&D activities at various facilities throughout the U.S. Applicants for all positions must possess U.S. Citizenship, and will be evaluated on their educational background and practical experience, as demonstrated by a solid publication record in the appropriate field. Unless otherwise indicated, applicants must possess a Ph.D. in Immunology, Microbiology, Molecular Biology, Physiology, Virology, or a related field.

**Research Microbiologist — Code 2137: Bethesda, MD** A Postdoctoral level candidate is sought to conduct research which incorporates the theories and techniques of microbiology, molecular biology, biochemistry, immunology, and rickettsiology for the purpose of investigating the role of cell wall antigens as components of sub-unit vaccines. The successful candidate will possess related hands-on laboratory experience with such activities, and will also require in-depth knowledge of separation techniques for proteins and glycoproteins.

**Research Microbiologist — Code 2149: Bethesda, MD** A Postdoctoral/Staff level candidate is sought to conduct research on the development of rapid diagnostic tests. The position will involve the characterization of unknown virus isolates, and will require experience in virus propagation and purification. The ideal candidate will have practical experience with protein gel electrophoresis, Western blotting, ELISA, as well as molecular cloning and PCR. The candidate will also possess an in-depth knowledge of immunology and immunodiagnostics as they relate to infectious diseases. Knowledge of arthropod-borne viruses and tropical medicine is a definite plus.

**Research Immunologist — Code 2164: Great Lakes, IL** A Postdoctoral level candidate is sought to conduct research on the development of immunoassays which are relevant to the diagnosis of oral infectious diseases. The successful candidate will possess extensive experience in cell-mediated immunology, and will have demonstrated practical expertise with associated laboratory techniques and procedures. Prior experience with assay development for oral pathogens is desired.

**Research Microbiologist — Code 2165: Bethesda, MD** A Senior Staff level candidate is sought to develop and initiate biologically oriented research directed at understanding problems of dental and oral health. The successful candidate will have prior experience with the development of techniques and procedures which facilitate the delivery of dental care, and will have specific experience in clinical microbiology as it relates to oral diseases. In addition, a broad based background including immunology, biochemistry, and cell biology will be considered a plus.

**Research Physiologist — Code 2166: San Diego, CA** A Senior Staff level candidate is sought to conduct research on human performance in various work, environmental, and other stressors. This position involves the identification of the physical, mental, behavioral, and man-machine interface requirements for successful performance during sustained military operations. The successful candidate will possess hands-on experience in the assessment of human performance when subjected to various stressors, and the development and evaluation of effective performance degradation countermeasures.

**Molecular Biologist — Code 2167: Bethesda, MD** A staff member is sought to assist in research activities associated with cerebral microvascular ischemia. The successful candidate will possess an MS (or equivalent) in Molecular Biology, and will possess extensive experience in cell culture techniques and cell physiology. In addition, the candidate will have expertise with Western, Northern, and Southern blot techniques, as well as PCR. Prior experience with endothelial cell-macrophage transformation is a plus.

**Support Staff — Code 2152** GEO-CENTERS is encouraging BS and MS candidates with several years of practical laboratory experience in molecular biology, immunology, virology, and related fields for consideration as members of the technical support staff. Please indicate any geographic preferences, if any.

GEO-CENTERS, INC., offers competitive salaries, and an excellent relocation and benefits package. Qualified applicants should send their resumes, salary history, and references in confidence to: GEO-CENTERS, INC., 10903 Indian Head Highway, Fort Washington, MD 20744, Attn: Deborah Hall-Greene, Human Resources. Please indicate the appropriate code. An Equal Opportunity Employer/Affirmative Action Employer.

GEO-CENTERS, INC.
Applications are invited for the position of Director of the Center for Molecular Biology, an interdisciplinary program composed of primary and participating faculty located in various departments throughout the University. The Director reports to the Vice President for Research and Dean of the Graduate School and will be responsible for the continued growth and development of the Center, which has a $2,000,000+ annual operating budget. The Center for Molecular Biology is a relatively young enterprise and currently has eight full-time and three half-time faculty members; additional faculty positions are available. The Director should be an independent investigator with a supervisory record of scholarly accomplishment in an area of Molecular Biology, possess extramural support and have the capacity for leadership and administration. Experience with promoting economic development through effective technology transfer is highly desirable. Salary is commensurate with qualifications and experience. Applicants should forward a copy of their curriculum vitae to:

Dr. Raymond F. Novak
Chairman, Search Committee
Wayne State University
2727 Second Avenue, Room 4000
Detroit, MI 48201

Wayne State University is an equal opportunity/affirmative action employer.

INVESTIGATIVE DERMATOLOGY

Hoffmann-La Roche, a leader in pharmaceutical research and development, has an exciting career opportunity in our Preclinical Dermatology Research Department.

The successful candidate will be responsible for establishing a laboratory to study metabolism and tissue levels of topicaly-applied dermatological agents. You will be part of a team effort working closely with other scientists in dermatology programs at the earliest stages of drug discovery to select candidates for clinical evaluation. In addition, you will interact with scientists within the Research Division, such as Drug Metabolism, Toxicology, Pharmacology and Chemistry. To qualify, you must have a PhD in Biochemistry, Chemistry or Pharmacology, with 2-4 years’ experience in drug metabolism and analytical methods development.

We offer a competitive salary, a generous company-paid benefits package, a state-of-the-art scientific environment, and the resources you'll need to have impact in an important field. For consideration, please send your resume and present salary (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Senior Professional Staffing Specialist, Department SS, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Hoffmann-La Roche
Working Today For A Healthier Tomorrow.

Alkermes, Inc. is a private biomedical company focused on the development of innovative systems for drug delivery across the blood-brain barrier. We seek highly qualified scientists to join our group of 30 scientists:

Director of Pre-Clinical Development

Candidate should have a Ph.D. in Pharmacology or related biological science and expertise in animal models, pharmacokinetics, and toxicology. Seven to ten years' preclinical industrial experience essential with experience in regulatory agency filings.

Position includes responsibility for management of a pharmacology group and design and conduct of in vivo pre-clinical evaluation of novel drug delivery systems using behavioral, biochemical, and physiological techniques to be conducted either intramurally or externally by contract research organizations.

This position offers an excellent salary, stock option and benefits package in a stimulating environment with an opportunity to make a major contribution. For consideration, please send your CV, including references, and a statement of interest, in confidence:

Mr. Stuart Davidson, President, Alkermes, Inc., 26 Landsdowne Street, Cambridge, MA 02139-4234.

An Equal Opportunity Employer
At Burroughs Wellcome Co., we create an environment in which individual initiative can flourish...as our 1988 Nobel winners have attested. We believe such freedom is the strength of our company...using the talents of our people whatever their field of endeavor.

GREAT PEOPLE MAKE A GREAT COMPANY

Postdoctoral Fellow - Molecular Neurobiology

(Pos. #61966-4) We are seeking a postdoctoral candidate to study the physical properties, expression and cellular regulation of mammalian tyrosine hydroxylase. Specific duties will be to purify the enzyme and hydroxylase (TH) from recombinant, eukaryotic and prokaryotic expression systems and study the physical properties of the enzyme in its native state and following activation. Also, to investigate the control of TH gene expression in cell cultures.

Candidates must have an M.D. degree or Ph.D. degree in biochemistry or pharmacology with training in protein biochemistry and/or molecular biology. Experience or training in neurobiology with specific emphasis on catecholamine transmitter systems is required. Cell culture experience would be helpful.

Junior Research Pharmacologist

(Pos. #61972-4) An opportunity exists for a scientist to help develop and maintain a cardiovascular research program directed toward the treatment of heart failure. Candidates must have a Bachelor’s degree in a biological science with two years laboratory experience in pharmacology or physiology, or a Master’s degree in pharmacology or physiology. Other factors to be considered in selection include: experience in cardiovascular research (in vivo and/or in vitro) and experience with computer software systems for data acquisition/management.

As a valued professional at Burroughs Wellcome Co., you will receive a salary commensurate with your experience, and be supported by the highest level of benefits in our industry. If you are interested in working for us, submit your resume, indicating position number in your cover letter, by May 29, 1990 to: Burroughs Wellcome Co., Recruiting and Staffing, 3030 Cornwallis Road, Research Triangle Park, NC 27709. For information on job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)248-8347 in Research Triangle Park, NC or (919)830-2997 in Greenville, NC.

RESEARCH ASSOCIATE OPPORTUNITIES

Amgen has emerged as an innovative leader in the discovery, development, and marketing of human therapeutics through applied biotechnology. We recognize that our future success depends upon continued commitment to scientific excellence. As a result of this commitment and our rapid growth, we have several opportunities for BS and MS level scientists who wish to share Amgen’s commitment to scientific excellence. Those opportunities currently being recruited for are listed below.

BIOCHEMISTRY

Dept. #507

Contributions will be made to on-going research efforts in the identification of novel hematopoietic growth factors as well as comparing and characterizing recombinant and natural proteins. Candidates must have a BS or MS in Cell Biology, Biochemistry, or a related discipline and a minimum of two years' experience in mammalian cell culture and general biochemical techniques. Familiarity with immunological and biological assays for the quantification of biological activity is essential.

MOLECULAR BIOLOGY

Dept. #509

Our Molecular Biology and Immunology Groups have several opportunities available with responsibilities including assay development, cDNA cloning, and general molecular biology as they relate to a number of on-going research projects. A BS or MS in Molecular Biology, Biochemistry, or a related discipline and a minimum of two years’ experience in molecular and cellular biology are required. Experience in basic gene cloning and mammalian tissue culture is essential. Familiarity with a variety of bioassays, cDNA cloning, and gene expression in prokaryotic and/or eukaryotic systems is highly desirable.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology as well as an excellent compensation and benefits package. If you have the necessary skills and qualifications and would like to be a part of an organization that places a high priority on its human resources, please send a resume or CV, specifying the appropriate Dept. #, in confidence, to:

AMGEN, INC.
Recruitment, Dept. # (please specify)
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer
POSTDOCTORAL POSITION Available April 1990. Goals of 3-year program are to determine mechanisms of the settling response and chemosensory recognition of barnacle larvae to bacterial films. Research is coordinated, and graduate minors in training program. Send curriculum vitae to: Dr. Elizabeth Wenner, Marine Resources Research Institute (MRI), Box L-153, Florida 33901. MRI in an Affirmative Action/Equal Opportunity Employer; minority applicants are strongly encouraged.

POSTDOCTORAL POSITION. An opportunity for someone with training in cell culture and recombiant DNA technology to apply the results of a structural protein problem in hemostasis. This is a biological laboratory in which you will learn high resolution molecular methods. Available 1 June, 1990. Send curriculum vitae and three letters of recommendation to: Dr. Peter Gettens, Department of Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available full/ winter of 1990 for recent Ph.D. to study signal transduction via the EGF receptor. Projects involve the study of various signal transduction pathways as well as processes that regulate the sensitivity of the EGF receptor. Experience in protein chemistry preferred. Send resume and names of three references to: Dr. Linsk-Pike, Washington University School of Medicine, Department of Biochemistry and Molecular Biophysics, 660 South Euclid, Box 8045, St. Louis, MO 63105.

POSTDOCTORAL POSITION is funded and available immediately to study the molecular and cellular biology of fibronectin gene expression during wound healing. Our research is focused on the mechanisms governing alternative splicing of fibronectin and the biological consequences of splicing during the process of tissue repair. Applicants should have a strong background in molecular biology and interest in experimental pathology and molecular biology. Send curriculum vitae and the names of three references to: Dr. Livingstone Van De Water, Department of Pathology, Beth Israel Hospital, and Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215.

CELLULAR ELECTROPHYSIOLOGY

A POSTDOCTORAL POSITION will be available starting late 1989 to early 1990 to investigate calcium channel regulation in sensory neurons and other cells. A basic understanding of vertebrate biology will be used to characterize the molecular effects of phosphorylation on membrane current at the single-channel and whole cell level. Experience with electrophysiological methods and a strong quantitative background are essential. There are no citizenship restrictions, and salary will be commensurate with experience. Candidates should address inquiries with curriculum vitae to: Eduardo Marban, M.D., Ph.D., Hanotzen 116, The Johns Hopkins University School of Medicine, Baltimore, MD 21205.

POSTDOCTORAL POSITION. Available to study gene regulation in hummus parasites or HIV or to develop paravovirus, AVA, transducing vectors with special reference to respiratory epithelium. Individuals with experience in molecular biology, biochemistry, protein chemistry, or virology should send curriculum vitae and names of three references to: Dr. Barrie J. Carter, Chief, Parasitic and Cellular Biology Branch, NIDDK, Building 8, Room 304, National Institutes of Health (NIH), 9000 Rockville Pike, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available in the laboratory of Dr. Albert Wong. Research involves the study of genetic alterations that occur in human cancer and their underlying mechanisms. Research will utilize a molecular approach to analyze the spontaneously occurring mutations in the EGF receptor and determine role of signal transduction protein in tumorigenesis. Familiarity with the methods of molecular biology preferred. Submit résumé and names of three references to: Personna Representative–DAW, Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL POSITION

APPLICATIONS ARE INVITED for a postdoctoral position to study (i) growth factor release by endothelial cells and (ii) the occurrence and mechanisms of cell plasma membrane wounding by high energy particles (collagen, tissue and culture and/or light, fluorescence, and electron microscopy would be useful. Applications, including curriculum vitae and names of three references to: Dr. Paul L. McNeil, Department of Anatomy and Cellular Biology, Harvard Medical School, Boston, MA 02115. Harvard University is an Affirmative Action/Affirmative Opportunity Employer.

POSTDOCTORAL POSITION

A position is available to study the molecular pathology and replication of influenza viruses. The research involves elucidation of the structural features determining virulence in the hemagglutinin and the mechanism of transcriptional regulation. The candidate will receive training in state-of-the-art molecular and immunobiological techniques that are being used to address these questions. Interested individuals should send their curriculum vitae and three letters of reference to: Dr. Yoshihiro Kawakou, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, Germantown, Memphis, TN 38185. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Position available for an individual with a Ph.D. and experience in molecular biology. The successful applicant will be engaged in research on the biochemical and molecular mechanisms of other hormonal peptides and other hormonal and pharmacological stimuli mediating cardiac muscle cell growth. There will also be the opportunity to engage in research defining the role of a localized intracellular signal system in mediating cardiac muscle cell growth, with an emphasis on the regulation of the precursor genes for this system. Competitive salary and fringe benefits are available. Please send curriculum vitae and three letters of reference to: Dr. Kenneth M. Baker, Weis Center for Research, Geisinger Clinic, Danville, PA 17822. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

In cellular and molecular endocrinology. New interdisciplinary training program supported by NIH training grant invites applications from U.S. and Foreign citizens only. The following laboratories are currently participating: C. Bancroft, Ph.D., physiology (pituitary gene regulation); T. F. L. R. Field, M.D., biochemistry (signal transduction); M. Gibbons, Ph.D., medical endocrinology (neuroendocrine control of gonadal function); E. Currie, Ph.D. (pituitary hormone receptor cloning); I. Palek, Ph.D. (pituitary hormone receptors); and S. Wilk, Ph.D., pharmacology (hypothalamic peptides). Positions will be filled as they become available and on a competitive basis. Applicants for 1990 and 1991 are advised to contact the appropriate mentor or request further details directly from: Dr. Terry F. Davies, M.D., FRCP, Director, Division of Endocrinology, Box 1055, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-8574. An Equal Opportunity Employer.

Beckman Laser Institute and Medical Clinic, University of California, Irvine, has a POSTDOCULAR POSITION immediately available to develop instrumentation for fluorescence lifetime measurements of drugs/probes in cells and tissue. Experience in cancer diagnostics and laser-based therapeutics. Candidates with expertise in lasers/optical fibers, time-resolved spectroscopy, and biological tissue are preferred. Experience in microscopy and image processing is desirable. One- or two-year appointment available. The Beckman Laser Institute is an Equal Opportunity/Minority Facility which hires a laser/biomedicine facility as well as basic research laboratories. Send curriculum vitae and three letters of reference to: Dr. Bruce J. Tromberg, Beckman Laser Institute, University of California, Irvine, CA 92715. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP POSITION

MOLECULAR GENETICS

Postdoctoral fellowship position, for 1-year term with possibilities of extension to a second year, is available for study molecular genetics of higher fungi. Candidate should have experience in classical and molecular genetics of higher fungi and expertise in isolation and manipulation of fungal DNA. Covered by NSF. Applications, including curriculum vitae and reprints of publications, should be sent to: Dr. Alfredo M. Muroz-Rivas, Department of Plant Science, Macdonald College of McGill University, 21,11 Lakeshore Road Ste. Anne, Quebec, H9X 1C0, Canada

Closing date for applications is 31 May 1990. The position is available immediately and will be filled when a suitable candidate has been chosen. All qualified individuals are encouraged to apply.

In accordance with Canadian immigration regulations, priority will be given to Canadian citizens and permanent residents of Canada.

POSTDOCTORAL POSITION

DEPARTMENT OF PERIODONTICS

SCHOOL OF DENTISTRY

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER

AT SAN ANTONIO

POSTDOCTORAL POSITION available for Ph.D. or equivalent degree to participate in studies of the outer membranes of Gram-negative bacteria using immunological and periodental disease. The position will involve both structural and biochemical studies of the Gram-negative cell envelope. Requires previous research training in microbiology/biochemistry and electron microscopy. Successful candidate will join an active laboratory consisting of six postdoctoral fellows, graduate students, and research assistants. Please forward curriculum vitae and three letters of recommendation to: Dr. Stanley C. Holt, Department of Periodontics, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284–7894. The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

To study esophageal neurogenetic studies on development of gastrointestinal physiology of esophageal muscle, genesis of lower esophageal sphincter (LES) tone, and mechanisms of LES relaxation. Knowledge of electrophysiology and pharmacology is required. Send curriculum vitae and references to: Dr. Raviinder K. Mittal, Division of GI, Box 145, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.

POSTDOCTORAL FELLOWSHIP

Available beginning 1 September 1990 for M.D./Ph.D. or Ph.D. in a laboratory studying mechanisms of receptor clustering and molecules that influence posttranscriptional translation. Send curriculum vitae and names of three references to: Donald Payan, Howard Hughes Medical Institute, U-426, University of California, San Francisco, San Francisco, CA 94143.

POSTDOCTORAL FELLOWSHIP

to study Ca2+-dependent phospholipid binding proteins of the annexin/lipocortin family. Emphasis on biochemical and molecular genetic approaches to elucidate the properties of these proteins and their interactions with cellular and artificial membranes. Send curriculum vitae and telephone numbers of references to: Dr. Jonathan Tait, Department of Laboratory Medicine, SB-10, University of Washington, Seattle, WA 98195.

POSTDOCTORAL FELLOWSHIP


POSTDOCTORAL FELLOWSHIP

POSITION

MOLECULAR GENETICS

This postdoctoral position, available for 1 year, with possibilities of extension to a second year, is available for studies on general genetics of higher fungi. Candidate should have experience in classical and molecular genetics of higher fungi and expertise in isolation and manipulation of fungal DNA. Covered by NSF. Applications, including curriculum vitae and reprints of publications, should be sent to: Dr. Alfredo M. Muroz-Rivas, Department of Plant Science, Macdonald College of McGill University, 21,11 Lakeshore Road Ste. Anne, Quebec, H9X 1C0, Canada

Closing date for applications is 31 May 1990. The position is available immediately and will be filled when a suitable candidate has been chosen. All qualified individuals are encouraged to apply.

In accordance with Canadian immigration regulations, priority will be given to Canadian citizens and permanent residents of Canada.
The Agency for Toxic Substances and Disease Registry (ATSDR) is part of the U.S. Public Health Service and is located in Atlanta, Georgia. The Agency's mission is to prevent or mitigate adverse human health effects and diminished quality of life resulting from exposure to hazardous substances in the environment.

**ATSDR** offers employees a unique opportunity to affect environmental health issues. The Agency is recruiting qualified people at all levels in the following disciplines:

**Toxicologists**
**Environmental Health Scientists**
**Medical Officers**
**Epidemiologists**
**Chemists**
**Environmental Engineers**

Send resume or CV to:
Agency for Toxic Substances and Disease Registry
Attention: Recruitment, 03J
1600 Clifton Road, N.E.
Mallstop E28
Atlanta, Georgia 30333

**ATSDR** is an Equal Opportunity Employer and provides a smoke-free work environment.

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**Geneticist**

Roswell Park Cancer Institute seeks applicants who have demonstrated excellence in human molecular genetics. This tenure-track position requires establishing a vigorous, independent, grant-supported research program; directing graduate research; and participating in teaching graduate courses in the faculty member's area of interest. Preference will be given to those interested in molecular characterization of human inherited diseases, including cancer, and in the development of technology for mapping the human genome. Active participation in an Institute-wide genetics research program on Human Genome Mapping and Function will be encouraged. Academic appointment will be in the Roswell Park Division of the State University of New York at Buffalo. Rank, salary, start-up funds and space will be commensurate with qualifications. Superb core facilities are available. Please send curriculum vitae, a research summary, and the names of three references to:

Thomas B. Shows, Ph.D.
Chairman, Department of Human Genetics
Roswell Park Cancer Institute
Elm and Carlton Streets, Buffalo, New York 14263

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**Protein Chemistry Research**

The Molecular Genetics Research Department at Pfizer is seeking an exceptional scientist to head up its Protein Chemistry Group. The position includes responsibility for a multidisciplinary research program related to the biochemistry of a number of therapeutic targets in the areas of neuroscience, immunology, inflammatory, and metabolic diseases. In this position, you will lead a team of scientists with expertise in purification and refolding of proteins from recombinant sources, all phases of primary and secondary structural analysis of proteins, and peptide and nucleic acid chemistry.

You are particularly encouraged to apply if you have established an independent research group and have project coordination or industrial management experience. You must have a minimum of 6 years experience beyond the PhD degree and a desire to represent a dynamic group in its interactions with the rest of Molecular Genetics Research and the therapeutic discovery departments at Pfizer. Towards this end, you must have excellent oral and written communication skills.

In addition to a stimulating research environment and an excellent opportunity for professional recognition and advancement, we offer a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community.

Qualified applicants should submit their resume and references in confidence to:

Dr. Jerry K. Larson, Assistant Director, Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
POSTDOCTORAL FELLOWSHIP: For study of age-related changes in brain regulation of Ca2+. Involves protein isolation, reconstitution, and cloning. Salary: $22,000 to $25,000 plus fringe. Background in protein purification and brain physiology. Send curriculum vitae and the names of three references to: M. L. Michaelis, Associate Professor of Pharmacology and Toxicology, College of Medicine, University of Kansas, 2099 Constant, Lawrence, KS 66047 by 4 May 1990. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS. In hematology and oncology research: basic and clinical science in cell biology, molecular biology, biochemistry, immunology, and oncopathology for 2 to 3 years beginning July 1990. NIH-supported. U.S. citizen or permanent resident with M.D. or Ph.D. eligible. Address correspondence to: Dr. Robert Silber or Ronald Blumer, New York University (NYU) Medical Center, 550 First Avenue, New York, NY 10016. NYU Medical Center is an Equal Opportunity/Affirmative Action Employer.

CELLULAR IMAGING, POSTDOCTORAL FELLOWSHIP. A postdoctoral position is available 1 July 1990, in cellular imaging using UV and visible confocal microscopy. Optical tweezers will be used in conjunction with confocal microscopy to control and image intracellular organelles or probes. Candidates should feel comfortable with optics and computers. Complete letter of interest, curriculum vitae, and names of three references to: Dr. David Clapham, Department of Pharmacology, Mayo Foundation, Rochester, MN 55905. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS. Available 1 July 1990 in the Molecular Cardiology Research Unit of the University of Texas Southwestern Medical Center. Areas of special emphasis include transcriptional control, mitochondrial genetics, stress proteins, gene transfer technologies, and novel applications of transgenic animals for research. Candidates should hold Ph.D. or M.D. degrees and have prior research experience in molecular biology. Send curriculum vitae and three references to: Dr. R. Sanders Williams, Chief of Cardiology, Department of Internal Medicine, Room G5.206, University of Texas Southwestern Medical School, Dallas, Texas 75235-9030. The University of Texas Southwestern Medical Center is an Equal Opportunity Employer.

RESEARCH BIOCHEMIST. U.S. Environmental Protection Agency (U.S. EPA), seeks a research biochemist to develop assays for hazardous and/or toxic substances in the Environmental Monitoring Systems Laboratory in Las Vegas (EMSL-LV). Responsibilities include evaluating methods to measure total lead and its metabolites, indicators of toxic exposure, and toxicants in environmental samples. The position requires hands-on laboratory skills, knowledge of biochemical techniques, proven ability to plan projects, and presentation skills. The position is a career federal appointment as a GS-12 ($35,825 to $46,571) or GS-13 ($42,601 to $55,381) and is open to civil service and non-government applicants; a Ph.D. is desired. Ranking factors include knowledge of analytical procedures, fate of toxic substances, and non-cancer endpoints. Application packages are available from: U.S. EPA, Human Resources Office, P.O. Box 98516, Las Vegas, NV 89193—8516 until 18 May 1990. Applications must be received by 1 June 1990. The U.S. EPA is an Equal Opportunity Employer.

The University of California, San Diego, Department of Pediatrics, is seeking a recent Ph.D. applicant for a POSTGRADUATE RESEARCHER (NIB). Candidates should have experience in molecular biology or biochemistry. Candidate to study the regulation of gene expression of hepatitis B virus (HBV). Major goal is to identify the cellular protein that interacts with a liver-specific HBV enhancer and transactivates gene expression. Position available immediately for at least 2 years. Salary: $14,500. Contact Dr. H. H. Paty, NIB, University of California, 9500 Gilman Drive, La Jolla, CA 92037. An Equal Opportunity/Affirmative Action Employer.

SURGICAL RESEARCHER. The Department of Surgery and the Research Institute at The Mary Imogene Bassett Hospital, a major teaching affiliate of Columbia University, are seeking a Ph.D. to conduct basic surgical research in an area of general surgery. Laboratory space and initial support provided. Competitive salary, with a fine benefits package and academic appointment. Located in Cooperstown, New York, a rural four-season resort village with excellent schools and unusual recreational and cultural opportunities. Send CV and three letters of reference to: Dr. Lee Swanson, Department of Surgery, The Research Institute at The Mary Imogene Bassett Hospital, Cooperstown, NY 13326. Phone: 607-547-9010. Fax: 607-547-3045.
UNIGENE LABORATORIES, INC.

Senior Scientists/Scientists/Technicians

Cell Genesys, a new biotechnology company located in the San Francisco Bay Area, is developing unique human therapeutic products based on the cellular genetic engineering technology of homologous recombination. This is a rare opportunity to participate in an early stage company developing a core technology for human health care. Candidates should have the following backgrounds:

Molecular Biologists  Experience in biochemistry, molecular biology or molecular genetics with experience in molecular cloning and transfection of mammalian cells.

Cell Biologists  Experience in isolation and growth of primary cells or development and growth of ES cell lines. A working knowledge of in vitro immunological assays and growth of T-cell clones is also desirable.

Immunologists  Experience in cellular immunology including in vitro T-cell assays such as CML and MLR and familiarity with transplantation techniques.

Transgenic Scientists  Experience in setting up and maintaining an animal facility directed towards the production of chimeric and transgenic animals.

Cell Genesys offers competitive salaries, excellent benefits and equity participation. For immediate consideration, please send your C.V., indicating positions of interest, to:

Cell Genesys, 344A Lakeside Drive, Foster City, CA 94404. Cell Genesys, Inc. is an equal opportunity employer.

CELL GENESYS, INC.
Atherosclerosis Drug Research Scientist Postdoctoral Position

CIBA-GEIGY Pharmaceuticals Division, respected worldwide for innovative products to treat cardiovascular, inflammatory and other disorders, invests more than a million dollars a day in research.

Our Atherosclerosis Biochemistry Department at our 100-acre headquarters complex in Summit, NJ offers this postdoctoral opportunity. Research focus is on applying molecular biology techniques to the discovery of drugs to treat and prevent hyperlipidemia and atherosclerosis. Candidates must be experienced in molecular biochemistry and recombinant DNA techniques. Interest in protein expression and characterization is preferred.

We offer a competitive salary, excellent benefits and state-of-the-art facilities. Please send resume with salary history and requirements to: Staffing Center, CIBA-GEIGY Corporation, Pharmaceuticals Division, Dept PJG, 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/H/N.

Science Serving Mankind

CIBA-GEIGY

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PhD Scientists

Merck Sharp & Dohme Research Laboratories has openings at the staff and postdoctoral levels for scientists with exceptional records of scientific accomplishment.

POSITION 1 is for an experienced biophysically oriented enzymologist to characterize biochemical systems relevant to cardiovascular disease in our anticoagulant and thrombolytic programs. The selected candidate should have a Ph.D. and at least three years of experience as an independent investigator in the field of enzymology and/or molecular biology.

POSITION 2 is for an experienced investigator to characterize interactions of integrins. The selected candidate should have a Ph.D. and scientific contributions in the area of membrane bound proteins.

POSITION 3 is for a biophysicist to characterize biochemical systems relevant to viral expression. The selected candidate should have a Ph.D. and be experienced in the area of macromolecular interactions.

POSITION 4 is for a postdoctoral fellow with predoctoral training in biophysics and biochemistry. The selected candidate will collaborate with senior scientists in biophysical studies of proteins involved in blood coagulation.

POSITION 5 is for a postdoctoral fellow with predoctoral training in biochemistry or in cellular and molecular biology. The selected candidate will collaborate with senior scientists in studies of the molecular basis for the regulation of expression of proteins involved in blood coagulation.

Excellent salary and benefit programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send resume to: Manager, Research Personnel A-12, W42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486. An equal opportunity/affirmative action employer m/f/v/h.
Sandoz Crop Protection, a company widely recognized for excellence in agricultural research and development, has openings in its Biologics and Plant Biotechnology Groups in Palo Alto.

**Scientist II, Biologics, #90-309 RS:** Will be responsible for project determining the influence of plasmid loss/gain upon *Bacillus thuringiensis* physiology and insecticidal activity. Requires an MS in microbiology or bacteriology with excellent background in plasmid and protein analysis.

**Scientist II, Biologics, #90-306 CC:** Microbial screening from environmental sources for use in biological insect control. Includes method development, bioassay evaluation and report writing. MS in microbiology or plant pathology and up to two years experience in microbial techniques required. Computer knowledge a plus.

**Sr. Scientist, Plant Biotechnology, #89-350:** Will be responsible for designing and conducting innovative research studies on protein targeting, stability and structure/function relationships in a program aimed at crop improvement through biotechnology. This entry-level PhD position requires a degree in molecular biology or biochemistry and one to four years of postdoctoral experience in the area of protein structure/function relationships. Background in plant sciences desirable.

Our new research facility is located near Stanford University. We provide a challenging work environment with opportunity for professional growth. For consideration, send resume with a letter of interest to:

Sandoz Crop Protection
Human Resources Department
975 California Avenue
Palo Alto, CA 94304-1104
AA/EOE

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**ABBOTT LABORATORIES**

Abbott Laboratories is a Fortune 100 corporation, devoted to the discovery, development, manufacture, sale and distribution of diverse healthcare products. Currently, we offer the following opportunity within our Pharmaceutical Products Division.

**TOXICOLOGIST**

The selected candidate will review toxicology reports and protocols, act as consultant for related divisions, and prepare toxicology summaries for IND and NDA FDA submissions. The qualified individual will also be expected to make presentations internally and to FDA on toxicology data. We require a toxicology related Ph.D., with at least 3-5 years broad-based toxicology experience within the pharmaceutical industry. Board certification and experience with the FDA is preferred.

Abbott is located in an attractive suburban setting 30 miles north of Chicago. We provide competitive compensation and benefits including a profit sharing and a stock retirement plan. For consideration, please send your resume to: Patricia Handy, Corporate Placement, Job #4153, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. (To facilitate handling, please indicate Job Number on your cover letter or resume.) Abbott is an Affirmative Action Employer.

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**BIOTECHNOLOGY SCIENTISTS**

The Bristol-Myers Squibb Company Industrial Division, a leader in biotechnology and a major international manufacturer of pharmaceutical products, has two research opportunities in its Biologics Process Development Group in Syracuse, New York. The Biological Process Development Group is rapidly expanding with a new protein recovery and purification facility currently under construction.

**Senior Scientist — Protein Purification**

We are seeking a scientist to be responsible for developing purification processes suitable for pilot plant scale production of quality therapeutic proteins. The scope of projects includes therapeutic monoclonal antibodies, recombinant proteins and enzymes. The position offers high visibility and excellent career advancement opportunity.

To qualify, the successful candidate must have a PhD in Biochemistry, Chemistry, or Protein Chemistry with postdoctoral experience in purification and analysis of proteins. Industrial experience in scale-up of laboratory purification processes to the pilot plant and cGMP operations is highly desirable.

**Associate Scientist — Molecular Biology**

Responsibilities include the development of microbial strains that produce increased titers of current antibodies through molecular manipulation or enzymes for biotherapeutics and bioconversions.

The successful candidate needs a BS or MS in Molecular Biology or related discipline and a strong background in gene cloning. Additional experience in molecular biology of fungal microorganisms is desirable.

Bristol-Myers Squibb offers excellent salaries and comprehensive benefits. For prompt, confidential consideration, forward your resume indicating position of interest, salary history and requirements to: MANAGER OF EMPLOYMENT

BRISTOL-MYERS SQUIBB COMPANY
INDUSTRIAL DIVISION
P.O. Box 4755, Syracuse, New York 13221-4755

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**POSITIONS OPEN**

**RESEARCH ASSOCIATE.** Two positions available at the levels of postdoctoral fellow or junior faculty, M.D. or Ph.D. degree. Background in cell biology or molecular biology required, particularly in mechanisms of signal transduction and design and discovery of new chemical entities (NCEs). Primary responsibilities will include developing novel techniques for determining and designing of new chemical entities (NCEs). Primary responsibilities will include developing novel techniques for determining and collaborating with a team of organic chemists, biochemists, and cell biologists in a well-funded laboratory with modern facilities for synthetic, organic, and radioisotope chemistry; analytical biochemistry; tissue culture; and in vivo animal studies. Competitive salary commensurate with education and experience. The University of Pennsylvania offers equal opportunity/Affirmative Action Employer. Interested applicants should send curriculum vitae to: William D. Bodmer, M.D., Professor and Chairman, Department of Radiation Oncology, University of Pittsburgh, 230 Lothrop Street, Pittsburgh, PA 15213.

**RESEARCH ASSOCIATE.** For college in northern Ohio. Research and development on compounds known to have chemopreventive action against cancer-causing agents (carcinogens), particularly lactic acid. Research will focus on enhancing the solubility, and hence bioavailability of such compounds. Testing the effectiveness of these chemopreventive compounds against lung, liver, and esophageal cancer, but will have Ph.D. in pharmacology/clinical biology. No experience needed in above duties, but 2 years of experience in microbiology and cancer research, specifically including the metabolism and pharmacokinetics of carcinogens required. Forty hours per week, 8 a.m. to 5 p.m., Monday to Friday; $29,000 per year. Must have proof of legal authority to work permanently in the United States. Send resume in duplicate (no calls) to: J. Davies, JOR #1119623, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

**RESEARCH ASSOCIATE BIOCHEMIST AND/OR JUNIOR FACULTY POSITION**

Multidisciplinary group interested in developing novel therapeutic strategies for melanoma therapy based on cytokine and melanoma cell biology. Ph.D. chemist/ biochemist with experience related to melanin synthesis, intermediary metabolism, or anti-melanoma pharmaceutical development. Unique opportunity for creative scientists to work independently and in collaboration with a team of organic chemists, biochemists, and cell biologists in a well-funded laboratory with modern facilities for synthetic, organic, and radioisotope chemistry; analytical biochemistry; tissue culture; and in vivo animal studies. Competitive salary commensurate with education and experience. The University of Pittsburgh offers equal opportunity/Affirmative Action Employer. Interested applicants should send curriculum vitae to: William D. Bodmer, M.D., Professor and Chairman, Department of Radiation Oncology, University of Pittsburgh, 230 Lothrop Street, Pittsburgh, PA 15213.

**POSITIONS OPEN**

**RESEARCH CHEMIST.** To develop methods for use of off-axis spinning and static solid specimens to assess multirng cluster sizes and to extend applications of these techniques to related problems of petroleum resid and black oil processing; instruct students on saturated and aromatic rings, and oxygen, nitrogen, and sulfur containing groups in coal and shale organic matter; devise new approaches to achieve accurate NMR (nuclear magnetic resonance) research; interpret results obtained by theoretical and correlation analysis and determine mechanisms of action; perform tests and take measurements throughout stages of testing to determine degree of control over variables such as temperature, density, specific gravity, and pressure; apply knowledge of solid-state NMR spectroscopy to elucidation of structural features of coal and shale kerogens and of coke derived from these renditions of above; prepare research findings and publish results. Ph.D. in chemistry required as well as 2 years of experience in job offered or 2 years of experience as graduate research assistant. Applicants must have utilized high resolution solid-state nuclear magnetic resonance in fossil fuel science research as demonstrated through a patent or publication in a professional journal or presentation at a scientific conference. Forty hours: 9:00 a.m. to 5:00 p.m., $38,700 per year. Send resumes to: Illinois Department of Employment Security, 401 South State St., Suite 1, Chicago, IL 60605, Attention: Robert S. Felton, Reference #VIL-1296-P. Employer-paid ad.

**RESEARCH OPPORTUNITIES** at the National Center for Toxicological Research (NCTR). Opportunities for faculty and postgraduates to conduct research at NCTR, a Food and Drug Administration laboratory in central Arkansas. Research efforts focus on testing the descriptive use in assessing and predicting potential environmental chemicals emphasizing studies in biomarkers, modulators of toxicity, and extrapolation/risk assessment. U.S. citizenship or G-1A status required. Contact: Research Participation at NCTR, Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 425-576-3190. Please indicate faculty and/or postgraduate program.

**RESEARCH SCIENTISTS WANTED:** 

State Department of Health Services (DHS) is recruiting for Research Scientists I, II, III, & IV for a civil service examination. Minimum qualifications start with graduation from college and one year postgraduate education in a field relevant to environmental epidemiology or public health environmental biochemistry to possession of doctoral degree and four years of professional research experience in a field of medical specialization relevant to environmental epidemiology (for Research Scientist IV). If interested, please send your resume to the Department of Health Service, Health Hazard Assessment Division, 714 P Street, Room 460, Sacramento, CA 95814, ATTN: Donna Rowe.
Postdoctoral Research Fellowships

The Parke-Davis Pharmaceutical Research Division of Warner-Lambert has initiated a multidisciplinary postdoctoral research program which will provide excellent opportunities to conduct basic studies in areas of potential therapeutic utility. The following Fellowships are currently available:

Fellowship Q
Population Pharmacokinetics

The Fellow will conduct population-based pharmacokinetic analyses of data generated in a wide variety of clinical settings. These analyses will be used to establish standard procedures for the conduct of future studies as well as for the management and analysis of data and validation of results. Thus, the successful applicant will need to interact with pharmacokineticists, statisticians and clinical data management personnel as part of a loosely knit, multidisciplinary working group.

Applicants should have a Ph.D. in the statistical or pharmaceutical sciences, a working knowledge of the IBM MVS/TSO operating system and environment, SAS, NONMEM, NMTRAN and PREDDP as well as a familiarity with relational database management systems, preferably ORACLE.

Fellowship R
Molecular Pharmacology of Growth Factor Antagonists

This Fellow will work in the Cancer Research Section of the Department of Experimental Therapy. The aim of this project is to characterize the growth factors involved in proliferation of human intestinal cells and of colon carcinomas, and to study the effects of growth factor antagonists and inhibitors of the associated signal transduction pathways.

Applicants should have a Ph.D. in Biochemistry, Cell Biology or Molecular Biology.

Fellowship S
Growth Regulation in Normal and Malignant Colonic Mucosa

This Fellow will work in the Cancer Research Section of the Department of Experimental Therapy, and will conduct in-vitro and in-vivo studies on new classes of drugs directed at treatment of colorectal carcinoma, using biochemical pharmacological and cytokinetic techniques.

Applicant should have a Ph.D. in Tumor Biology, Biochemistry or Pharmacology, and some tissue culture experience is desirable.

All appointments are for one year, renewable for a second year. Compensation includes $32,000 annual salary with relocation expenses and an attractive benefits package. Our modern research facilities are located adjacent to the University of Michigan in an outstanding living and working environment.

Send letter of application with curriculum vitae and names of three references to Jack Moyer, Human Resources, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. Please indicate the Fellowship you are applying for. "Smoke-Free Work Environment" 

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PARKE-DAVIS A DIVISION OF WARNER LAMBERT
POSTDOCTORAL POSITIONS
NATIONAL INSTITUTES OF HEALTH
PHOENIX, ARIZONA

Positions are available now and in spring or fall of 1990 for recent Ph.D.s or M.D.s to participate in studies of the molecular biology and genetics of insulin resistance in a diabetes-prone human population. These molecular studies focus on several PROTEIN KINASES and PROTEIN PHOSPHATASES that are regulated abnormally by insulin in skeletal muscle of insulin-resistant subjects. Expertise in cDNA library construction and screening, oligonucleotide probe design, polymerase chain reaction, restriction mapping, and DNA sequencing is essential.

Curriculum vitae, letter of application, and names, addresses and telephone numbers of three references should be sent to:

Dr. Clifton Bogardus
Dr. James Sommercorn
National Institutes of Health
4212 North 16th Street
Room 541
Phoenix, Ariz. 85016

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POSITIONS OPEN

SUPERVISORY CHEMIST/ENVIRONMENTAL SCIENTIST: This is an Environmental Protection Agency position assigned to the Office of Pesticide Programs, Environmental Fate and Ground Water Branch, in Arlington, Virginia. This position is responsible for the planning and management of scientific studies on the protection of ground water, and serves as a national expert on the issue of pesticides in ground water. Review proposals in support of ground monitoring studies and develop guidelines for such studies, and work on cooperative projects with EPA laboratories and other agencies. Experience in pesticide chemical environmental fate, soil chemistry, and hydrogeology.

Please submit SF-171 (Application for Federal Employment) and list of college courses to:

U.S. Environmental Protection Agency
Office of Pesticide Programs
Environmental Fate and Effects Division
401 M Street, S.W., H7507C
Washington, DC 20460
Contact: Rachelle Jones
Telephone: 703-557-0469

All applications must be postmarked no later than 11 May 1990. The salary range for this position is $42,601 to $65,444.

THEORETICAL NEUROBIOLOGY

The Neurosciences Institute (NSI) invites applications for positions as INSTITUTE FELLOWS in Theoretical Neurobiology. The NSI supports an inhouse research program dedicated to developing experimentally testable theoretical models of the nervous system. Current models include simulations of pharmacological effects on neuronal networks, the design of network automata, and analysis of visual systems. Advanced supercomputer facilities are available. Institute Fellows are appointed for 2 years with the possibility of renewal, and receive stipends that depend on qualification and experience. Applicants should be at the postdoctoral or assistant professor level, and must have a background in experimental or theoretical neuroscience or related fields.

The NSI is an independent organization located on the campus of The Rockefeller University in New York City. The NSI serves as the home of the Neurosciences Research Program and is an international center of study and research for distinguished visiting neuroscientists. Fellows have opportunities to use the Institute's extensive facilities and to interact with visiting scientists.

Applicants should send a short statement of research interests, curriculum vitae, and the names of three references to: Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 1230 York Avenue, New York, NY 10021.

SITUATIONS WANTED

BIOCHEMIST, Ph.D. Experience: protein/enzyme purification, HPLC, ELC, SDS-PAGE, Western blotting, autoradiography, ELISA, and clotting assays. Seeking R&D position. Box 32, SCIENCE.

ELECTRON MICROSCOPIST, M.S. cell biology. Prototoxinology, neurosciences, and diagnostic EM. TEM, SEM, immunochemistry, autoradiography, image analysis, laboratory management and administration. Box 19, SCIENCE.


MEETINGS

BIOMEDICAL HORIZONS OF THE LEECH
International Conference at Charleston, South Carolina, 24 to 28 October 1990. Biological, clinical, and pharmaceutical aspects of leeches will be the focus. Special sessions on hirudin and hirudin in advances in their genetic engineering will be included. Sponsored by Biopharm USA Ltd. Call: ACCESS Conferences, 800-942-9114, for more details.

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Available at the Dana-Farber Cancer Institute and Harvard School of Public Health. Housing and domestic travel support provided for from 1 to 3 weeks. Positions open to graduate students, postdoctoral fellows, and senior researchers in molecular biology. Positions provide a variety of software introductory training and/or collaborative research for genetic sequence-problem support. For further information, contact: Susan Russo, LG-1, Molecular Biology Computer Research Resource. Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.

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"Recovering and purifying trace amounts of protein is surprisingly easy"

Chromatographers speak out about the Gilson Auto-Prep HPLC system

The Gilson Auto-Prep HPLC system has one pump for mobile phase delivery, another for repetitive sample injection. And that, according to a chromatographer in radiation oncology and cancer research, makes it surprisingly easy to recover trace amounts of protein from complex sample matrices. Repetitive injection of small volumes of sample allows the use of high-efficiency analytical or semi-prep columns for high throughput, excellent resolution, and very pure fractions.

"Overnight operation has really increased throughput"

A pharmaceutical QC lab supervisor likes the capacity and reliability of the system. A multimode fraction collector with 120- or 540-tube capacity is the key. The collector—either the Gilson 201 or 202—has a stationary rack design. Unlike collectors with carousel racks, it won't jam. The collector acts as a system controller, and multicycle capability allows collection of fractions from the repetitive runs into the same set of tubes for automated sample purification.

"Analytical and prep run results are reproducible"

After method development with an analytical system, many labs switch to preparative scale sample purification. Or switch back and forth to perform purity checks. With Gilson HPLC pumps, you simply replace the pump head to change the flow rate. Eight interchangeable pump heads offer flow rates as high as 200 ml/min.

"It's a compact system that saves bench space"

The Gilson Auto-Prep system is made up of modular components. The basic system stack, including the detector and pumping modules, has a footprint of about one square foot. And the 201 fraction collector offers 120-tube capacity in an equally compact space.

"Upgrading to gradient analysis was easy"

The modular design that makes our systems easy to fit on a crowded bench also makes it easy to upgrade the system. Going from isocratic to gradient with the Auto-Prep system simply requires the addition of pumping modules and, when necessary, a controller. All components from the original system are used, so none of your initial investment is lost.

To hear more, contact us today

We'll start by sending you a data sheet on this and other Gilson HPLC systems. Then, if you'd like, we'll put you in touch with some of the researchers we've been talking to. You can ask them yourself about the performance of the Gilson Auto-Prep HPLC system. Just mark the reader service number below. Or call us toll-free at 800-445-7661 (In Wisconsin call 608-836-1551).

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