**POSITIONS WANTED**


**POSITIONS OPEN**

**ANATOMY UNIVERSITY OF SASKATCHEWAN DEPARTMENT OF ANATOMY**

The Department of Anatomy, University of Saskatchewan, College of Medicine, invites applications for tenure-track position in CELL AND TISSUE BIOLOGY. Applicants must be able to demonstrate the ability to contribute to a high-level, competitive research program in cell and tissue biology with the opportunity for strong interactions with other departments of the College of Medicine and the University. Applicants should have a Ph.D. and experience in preparation, immunocytochemistry, or in vivo techniques. Submit curriculum vitae, research statement, and names of three references to: Dr. D. E. McFarlane, Department of Anatomy, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0. The position will be filled as soon as a suitable candidate is found. This opportunity is covered under the University's Equal Opportunity/Affirmative Action Policy.

**ANIMAL/CELLULAR PHYSIOLOGIST**

Seek a tenure-track assistant or associate professor to develop a vigorous research program in animal physiology at the cellular level. The appropriate area would be one that attempts to understand mechanisms in cells. This position is in the Department of Physiology and Biophysics. Send curriculum vitae, research statement, and names of three references to: Dr. D. G. Burkholder, Department of Anatomy, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0. The position will be filled as soon as a suitable candidate is found. This opportunity is covered under the University's Equal Opportunity/Affirmative Action Policy.

**ASSISTANT DIRECTOR OF ANIMAL CARE, BROWN UNIVERSITY**

The Division of Biology and Medicine is seeking applications for the position of Assistant Director of Animal Care. This position will be available at the end of the school year. Applicants should have a Ph.D. in a relevant field and at least 5 years of experience in animal care. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.

**ASSISTANT DIRECTOR, MARKETING**

This is a full-time position with benefits. Applicants should have a graduate degree in business administration with significant experience in marketing and sales. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.

**ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY**

The Department of Pharmacology and Toxicology is seeking an assistant professor with a Ph.D. in pharmacology, toxicology, or a related scientific discipline. The position is tenure-track and the salary is negotiable. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.

**ASSISTANT PROFESSOR OF PHYSIOLOGY**

The Department of Physiology is seeking an assistant professor with a Ph.D. in physiology or a related field. The position is tenure-track and the salary is negotiable. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.

**ASSISTANT PROFESSOR**

The Department of Physiology is seeking an assistant professor with a Ph.D. in physiology or a related field. The position is tenure-track and the salary is negotiable. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.

**ASSISTANT PROFESSOR**

The Department of Molecular Biology is seeking an assistant professor with a Ph.D. in molecular biology or a related field. The position is tenure-track and the salary is negotiable. B. W. A. 1017 S. 1220. Applications will be accepted until 15 June 1987. Professor B. W. A. 1017 S. 1220.
The Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois, Urbana-Champaign is seeking applications for two regular tenure-track tenure. The ASSISTANT OR ASSOCIATE PROFESSOR level in the area of veterinary macro- or microanatomy. Individuals will teach either macro- or microanatomy in the veterinary medical curriculum and will be expected to develop a research program and participate in graduate instruction. Current research areas in the group are in endocrine/ reproducible and hard tissue studies.

Candidates should possess the Ph.D. degree or equivalent with preference to those who also hold the D.V.M. or equivalent. In addition, candidates must use English fluently. Salary commensurate with qualifications. To ensure full consideration, applications should be received by 30 May 1987.

Send curriculum vitae and three letters of reference to: Dr. W. C. Wagner, Head, Veterinary Biosciences, University of Illinois, 201 South Lincoln, Urbana, IL 61801; telephone: 217-333-2506.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR (tenure track). The Department of Ophthalmology and the Department of Microbiology, Biochemistry and Molecular Biology at the University of Illinois at Urbana-Champaign are seeking an individual with an active research program in the cellular and molecular biology of chlamydial infections. Research in pursuit of our understanding of the biology of chlamydial research interest are also encouraged to apply. The successful candidate will hold a joint appointment in the two departments. Preference is given to establishing an independent research program and develop an interest in the ocular complications of chlamydial infections. Postdoctoral experience is required, and preference will be given to candidates with funded pending research support. A competitive salary, start-up funds and research space in The Eye and Ear Institute of Pittsburgh are available. Please submit curriculum vitae and research statements (two pages) by 1st July 1987 to: Dr. David K. Wilcox, Department of Ophthalmology, University of Pittsburgh School of Medicine, 200 Lothrop Street, Pittsburgh, PA 15213. The University of Pittsburgh is an Equal Opportunity Affirmative Action Employer.

AUDITORY RESEARCH
EVOKE POTENTIAL STUDIES (ANIMALS)

A non tenure-track, full-time research position is available immediately for a person with a Ph.D. and experience appropriate to conduct evoked potential studies on animals and possibly humans. The position is for a research position involving studies on the auditory system with an emphasis on the mechanism of the cochlea, auditory nerve, and brainstem. The successful candidate will be expected to continue work in the area of auditory physiology and to participate in the development of new research areas in auditory neurophysiology.

Interested applicants should send curriculum vitae and three letters of reference to: Dr. L. M. Harris, Department of Otolaryngology and Communicative Sciences, University of Maryland, School of Medicine, 655 North East Gateway, Baltimore, MD 21205. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMICAL ENGINEERING, University of Maryland. Applications are invited for a tenure-track or tenured position (tenure) to be jointly held in the Chemical Engineering Program of the Department of Chemical and Nuclear Engineering and the Agricultural Biotechnology Center, an interdisciplinary research unit. Applicants should have an earned Ph.D. and a strong interest in research in bioconversion of agricultural products. Superior applicants who have demonstrated excellence in teaching and research are encouraged to apply. Position is available as of January 1, 1988.

AUDITORY RESEARCH—HUMAN SUBJECTS

A non tenure-track, full-time research position is available immediately for a person with a Ph.D. and experience appropriate to conduct evoked potential studies on humans. The position is for a research position involving studies on the auditory system with an emphasis on the mechanism of the cochlea, auditory nerve, and brainstem. The successful candidate will be expected to continue work in the area of auditory physiology and to participate in the development of new research areas in auditory neurophysiology.

Interested applicants should send curriculum vitae and three letters of reference to: Dr. L. M. Harris, Department of Otolaryngology and Communicative Sciences, University of Maryland, School of Medicine, 655 North East Gateway, Baltimore, MD 21205. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

SOCIAL WORK, University of California, Irvine. The University of California, Irvine, is recruiting for a full-time faculty position in the School of Social Work. The School of Social Work offers a Ph.D. in social work, a Master of Social Work (MSW) degree, and a Bachelor of Arts (BA) degree in social science. The MSW and BA programs are accredited by the Council on Social Work Education. The Ph.D. program is an applied program designed to prepare researchers and practitioners in the field of social work. The School of Social Work is committed to diversity and equity in all areas of its mission.

Applications are invited for a tenure-track or tenured position in the School of Social Work at the University of California, Irvine. The position is available as of August 1, 1988. The University of California is an Equal Opportunity/Affirmative Action Employer.
BIOTECHNOLOGY
Materials Research and Development
$32,567 to $42,341

The Naval Surface Weapons Center, located in suburban Washington, DC, is establishing a laboratory for research and development in the areas of molecular biology and microbial genetics. Our Research and Technology Department is seeking molecular biologists, biochemists, bacteriologists, and biophysicists for positions in this laboratory. Publication in the open literature is expected.

Salary will be based on qualifications.

For further information, contact Dr. James F. Goff, commercial — (202) 394-2289 or AUTOVON — 290-2289. Interested applicants should send a resume (or SF-171 if current or reinstatable Federal Government employee) including list of publications and patents, and a detailed description of your experience in the field to NSWC by May 8, 1987.

NAVAL SURFACE WEAPONS CENTER
Attn: Code P60(S), Ms. Doris McNeel
10901 New Hampshire Avenue
Silver Spring, MD 20903-5000

* An Equal Opportunity Employer *
* U.S. Citizenship Required *

We Said NO.
So You Could Say YES!

IGEN, Inc. turned down a major pharmaceutical firm's offer to purchase us because we believe IGEN can become one of the major diagnostics and pharmaceuticals companies of the future.

ELECTROCHEMIST

If you are a Ph.D. in Electrochemistry or Electro-analytical Chemistry with experience in modified electrode surfaces, spectroelectrochemistry or electrochemistry at microelectrodes, you may be qualified for the challenge.

The successful candidate will have working knowledge of organic electrochemistry and the electrochemical techniques necessary to elucidate electrode reaction mechanisms.

IGEN welcomes discussions of these opportunities with curious qualified candidates who may not be currently exploring employment alternatives. Call in confidence to our Director of Instrumentation (301) 984-7964 or send C.V. with salary history to: IGEN, Inc., 1530 East Jefferson Street, Rockville, MD 20852.

IGEN, INC. is an Equal Opportunity Employer

Clinical Virologist

The Upjohn Company, recognized as a worldwide leader in pharmaceutical research, is seeking applicants for the position of Research Scientist in the Biotechnology Product Development Group of the Control Division.

The successful candidate will have experience in developing laboratory methodology to determine the presence of microbiological contamination in continuous cell lines and recombinant proteins. In addition, this individual will be expected to take responsibility for Control product development activities on all Upjohn vaccine products. This will include coordinating research efforts between scientists, serving as a representative on project teams, and providing the rationale for product specifications.

The candidate will join an inter-disciplinary team that is responsible for providing data to address product registration issues on a worldwide basis. The position requires a Ph.D. in virology, microbiology, or clinical chemistry and experience with modern diagnostic methods used in the identification of pathogenic organisms. Good oral and written communication skills are required. Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a mix of excellent cultural, educational and recreational pursuits, including numerous lakes and a four-season climate.

For confidential consideration, call toll free 1-800-253-8600, ext. 3-6767, (inside Michigan call collect 616-323-6767) to request an employment application be sent to you. Please refer to Ad Number 20972-F when calling.

An Equal Opportunity Employer M/F.
DIRECTOR
BRAIN RESEARCH INSTITUTE

Applications and nominations are invited for a new Director of the Brain Research Institute, University of California, Los Angeles. Of utmost importance in the candidate’s qualifications is an outstanding, current research and publication record in neurobiology. The candidate should have a strong interest in the development of interdisciplinary activities in neurobiology, a willingness to administer budgetary, personnel and related processes fairly and efficiently, and the ability to obtain appropriate external financial support for the Brain Research Institute.

The Brain Research Institute will reorganize into a series of major laboratories consisting of groups of scientists with common interests. The Director of the Brain Research Institute will also direct one of these laboratories and, in consultation with an Executive Committee, govern the Institute and develop excellence in multiple areas of neurobiology.

Applications or nominations including a complete curriculum vitae will receive full consideration and should be sent to:

Search Committee for Brain Research Institute Director
/o Faye Porche*, Administrative Assistant
UCLA School of Medicine
Room 12-138
Center for the Health Sciences
Los Angeles, California 90024

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

BIOCHEMIST

Merck Sharp and Dohme Research Laboratories, a world leader in the development of ethical pharmaceuticals for human and animal health, is currently offering an excellent career opportunity for a biochemist to join the Department of Basic Microbiology.

The incumbent would develop and perform enzyme and receptor binding assays for the discovery of pharmacologically active fermentation products. Also, he/she would assist in the development of computer programs for the management of assay data.

A Ph.D. or equivalent in biochemistry or pharmacology with a strong background in enzyme or receptor binding assays and purification of proteins is required. Experience with computers is desirable.

Salary and benefits are excellent. Our location is Rahway, New Jersey, 25 miles from New York City. Interested applicants should submit a curriculum vitae to Luis F. Ballester, Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, WBD-214, Rahway, New Jersey 07065. Equal Opportunity Employer.

REQUEST FOR RESEARCH GRANT APPLICATIONS BIOCHEMICAL AND MOLECULAR ASPECTS OF THE REGULATION OF ION TRANSPORT IN EPITHELIAL CELLS

The Cystic Fibrosis Foundation invites grant applications to define and characterize the biochemical and molecular aspects involved in the regulation of epithelial cell ion transport related to cystic fibrosis (CF), with specific focus on post-receptor regulatory mechanisms.

This special request is intended to encourage innovative, meritorious studies focusing on areas including but not limited to: molecular/biochemical identification of transport proteins and associated regulatory elements; genetic manipulation of transport models to study regulation; identification of second messenger pathways and interrelationships among these pathways; approaches to bypassing or modifying altered transport mechanisms in CF cells. Applications must demonstrate potential relevance to CF.

Awards will be made as grants-in-aid. Applicants may request up to $100,000 in total annual costs (direct and indirect) for up to two years.

Interested individuals are encouraged to contact the Foundation to discuss the potential relevance of their work to the objectives of this announcement and to submit a letter of intent by June 1, 1987. The deadline for submission of applications is August 1, 1987. Application materials are available from:

Cystic Fibrosis Foundation
6931 Arlington Road
Bethesda, Maryland 20814
(301) 951-4422

Manager of Peptide Services

To coordinate the synthesis and analysis of peptides and develop quality control criteria and therapeutic proteins. This position requires either a B.S. with a minimum of 2 years’ experience or a recent Ph.D. in:

- Peptide mapping and purification by HPLC
- Amino acid analysis by HPLC
- Peptide synthesis
- Peptide sequencing
- Experience with chemical modification of proteins plus

Experienced Protein Purification/ Process Development Scientists

At Ph.D. and M.S./B.S. level. Requirements are:

- At least 2 years’ experience in developing and scaling up methods for purification of therapeutic proteins produced by recombinant techniques.
- Working knowledge of GMP manufacturing procedures.
- Experience with bacterial fermentation of mammalian cell culture plus

DNA Sequencing Research Associate

To supervise DNA sequencing service including coordination of sequencing projects. Requirements are:

- B.S./M.S. in biochemistry/microbiology and at least 1-2 years’ lab experience
- Extensive experience with DNA sequencing and computer organization and analysis of DNA sequence data
- Thorough training in recombinant DNA technology
- Experience in project organization, technician supervision and operation of a DNA synthesizer plus

Repligen offers a competitive salary, excellent benefits and equity participation. Please submit cover letter, resume and references to: Personnel Director-R&D, One Kendall Sq., Bldg. 700, Cambridge, MA 02139. An Equal Opportunity Employer.
ASSOCIATE
R & D DIRECTOR

CSL
AUSTRALIA

CSL is Australia's leading manufacturer of biologics and has a strong commitment to Research and Development. CSL's major facilities are located at Parkville which is four kilometers from the centre of Melbourne, and is in close proximity to the University of Melbourne, the Walter and Eliza Hall Institute of Medical Research and several other institutions.

CSL is looking for a senior researcher with the ability to manage, plan complex R & D activities, develop and implement strategies compatible with our corporate goals, adapt to changing technological needs, and motivate and direct a team of researchers. The right person will make significant contributions to the identification of new business opportunities, translate the results of scientific programs into recommendations for corporate action, and make sure projects operate efficiently, effectively and economically.

This new position will be one of two Associate R & D Directors who will each share responsibility for the R & D Group and manage their respective areas of activities and projects.

Required experience includes a tertiary qualification to medicine, veterinary science or a higher degree in one of the biological sciences and academic and/or industrial research experience and possess ability or potential as a senior research manager.

We offer a competitive salary, removal expenses and associated benefits for this appointment which we would expect to make about mid-1987.

Please send a cv outlining your qualifications, description of scientific and research experience and the names of two referees, to Mr. E.D. Eade, Personnel Director, Commonwealth Serum Laboratories, 45 Poplar Road, Parkville Vic. 3052, Australia, by 15 May 1987. Telephone enquiries may be made to Dr. Peter Schiff, R & D Director, +613-3891484.

Laboratory
Assistant
Fermentation R&D
Department

Pfizer Central Research has an immediate opening for a laboratory assistant in its Fermentation R&D Department. You will contribute to the elucidation of biochemical pathways for a wide variety of fermentation products, including antibiotics. Typical duties will include mutation/selection of organisms, enzyme isolation and manipulation of biochemical pathways to improve production.

Applicants should possess a BS or MS in Biochemistry, Microbiology or related field.

In addition to a stimulating scientific environment, we also offer competitive compensation, benefit package and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of research accomplishments to: Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340.

An equal opportunity employer

Molecular Biologists

Southern Research Institute has immediate positions available for qualified molecular biologists with post doctoral experience in the following area:

Eukaryotic Molecular Genetics. Prefer experience related to molecular oncology/oncogene research. Must possess skills in eukaryotic cell transfection and expression techniques, DNA sequencing, blot hybridization, plasmid cloning/subcloning, genomic cloning, and other recombinant DNA techniques.

Prokaryotic Molecular Genetics. Prefer experience which also includes some eukaryotic molecular genetics and gene expression. Skills required in both basic and applied molecular biology/genetics, plasmid cloning, DNA sequencing, gene expression in prokaryotic systems/eukaryotic systems, and molecular mechanisms involved in microbial pathogenesis.

Duties may involve work on existing and proposed projects, developing expanded programs in oncogene/molecular carcinogenesis research and/or obtaining independent research support in own area of interest.

Located in a 20-acre complex and with a staff of over 700, Southern Research Institute is a diversified contract research organization in its fifth decade of operation. The Birmingham area, with a population of one million, offers a mild four-season climate, lower-than-average cost of living, diverse recreational and cultural opportunities and a variety of convenient housing alternatives. To apply, send c.v. to:

Denise D. Johnson
SOUTHERN RESEARCH INSTITUTE
Personnel Office, Dept. B198
P.O. Box 55305
Birmingham, AL 35255-5305

An Affirmative Action/Equal Opportunity Employer
BIOTECHNOLOGY.

The School of Pharmacy, Campbell University, invites applications for a tenure-track position at the level of assistant or associate professor, beginning 1 August 1987. Applicants should have a Ph.D. and broad teaching and research experience in the field of biotechnology. Applicants should be able to teach undergraduate courses in molecular biology and biotechnology and to develop and manage a research program. Appointment at the associate professor level is negotiable and commensurate with qualifications. The successful candidate will participate in the teaching of biochemistry and immunology through the professional curriculum. Excellence in teaching is expected. Applicants should submit curriculum vitae, a statement of research and teaching interests, and three letters of reference to Dr. Harry Rosenberg, Chairman, Department of Pharmaceutical Sciences, School of Pharmacy, Campbell University, Buies Creek, NC 27506. An Equal Opportunity Employer.

BIOLOGICAL SCIENCES. Teach seed plant anatomy and physiology and a survey course covering algae, fungi, and plants. Participate in departmental General Biology sequence. Initiate a program of undergraduate research in agriculture and plant biotechnology. Ph.D. in biology in biochemistry or molecular biology is required. Experience in teaching and research is desirable. Rank is negotiable and commensurate with qualifications. The successful candidate will participate in the teaching of biochemistry and immunology through the professional curriculum. Excellence in teaching is expected. Applicants should submit curriculum vitae, a statement of research and teaching interests, and three letters of reference to Dr. Harry Rosenberg, Chairman, Department of Pharmaceutical Sciences, School of Pharmacy, Campbell University, Buies Creek, NC 27506. An Equal Opportunity Employer.

CARDIOVASCULAR ELECTROPHYSIOLOGIST AND MOLECULAR BIOLOGIST

The Department of Physiology, University of Manitoba, invites applications for two positions from investigators in the field of experimental cardiology to be appointed at the level of ASSISTANT PROFESSOR (contingent appointment) in the Division of Cardiovascular Sciences. The applicant must have a M.D. or Ph.D. degree and have 2 years of experience. Applicants with background in cardiovascular biology and molecular biology are encouraged to apply. The successful candidates will be expected to compete for local and national scholarship awards (for example, MRC) and develop their independent research programs as well as collaborate with other members of the department. Teaching in a graduate program will be a requirement. Please submit a copy of your curriculum vitae including an outline of your research interests and arrange for three letters of reference to be sent to: Dr. Henry G. Friesen, Professor and Head, Department of Physiology, Faculty of Medicine, University of Manitoba, Winnipeg, Manitoba, R3E 0W3 Canada. Deadline for application is 30 June 1987. The University is an equal opportunity/affirmative action institution. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

CHAIRMAN

DEPARTMENT OF MICROBIOLOGY

LOYOLA UNIVERSITY

STRICTH SCHOOL OF MEDICINE

The Stritch School of Medicine, Loyola University of Chicago, invites applications and nominations for the position of Chairman of the Department of Microbiology. The candidate should possess a Ph.D. or equivalent undergraduate teaching experience. Individuals with a strong background in molecular biological techniques are encouraged to submit their applications. With an ongoing Molecular Biology Graduate Program and a new Macromolecular Facility, the Stritch School of Medicine has a strong commitment to molecular biological research. Currently, the faculty of the department is pursuing research in: molecular biology, cellular immunology, prokaryotic and eukaryotic molecular biology, molecular virology, biophysics, pathogenic mechanisms, and mycoplasma. Applicants should send curriculum vitae and the names and addresses of three references to: Dr. John A. Hamill Jr., Chairman, Search Committee for Microbiology, Stritch School of Medicine, Loyola University of Chicago, 2160 S. First Avenue, Maywood, IL 60153. Loyola University Chicago, Stritch School of Medicine is an Affirmative Action/Equal Opportunity Employer.

CHAIRMAN

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The Medical University of South Carolina is seeking applications for the position of Chairman of the Department of Microbiology and Immunology. An individual is sought who has the experience, desire, and ability to provide strong administrative leadership, direct the basic science programs and support the graduate and undergraduate teaching programs for medical students and graduate students. The successful candidate is expected to: W. Edmund Farrar, M.D., Chairman, Microbiology Search Committee, Infectious Diseases, W. 199 Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. An Equal Opportunity M/F Affirmative Action Employer.

DEAN, COLLEGE OF PHARMACY, WASHINGTON STATE UNIVERSITY

Washington State University invites applications and nominations for the position of Dean, College of Pharmacy. The position is available 1 July 1987. The University is located at Pullman, and enrolls approximately 16,000 full-time students with approximately 200 students in the College. The College's 19 faculty provide vigorous undergraduate and graduate programs leading to the Bachelor of Pharmacy and the M.S. and Ph.D. in pharmacology/toxicology and pharmaceutical chemistry. Applications are sought from individuals interested in the interdisciplinary pharmacology/toxicology program. The College recently moved to a new facility. The candidate for the position should be capable of serving in a pharmaceutical or science discipline. Desirable qualifications include a degree in pharmacy, experience with teaching and administration of both undergraduate and graduate level, demonstrated research achievements, and an ability to relate to pharmacy practitioners. Salary dependent upon qualifications. Application deadline is 4 June 1987. Applications should include a current resume and the names and addresses of five references. Applications and nominations should be sent to: Charles D. Barnes, Chair, Dean of Pharmacy Screening Committee, 205 Wiegner Hall, Washington State University, Pullman, WA 99164. Washington State University is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR-Center for Great Lakes Studies/Great Lakes Research Facility University of Wisconsin-Milwaukee (UWM). Major research unit of the Graduate School at UWM seeks applicants for a director to develop and manage interdisciplinary research programs, manage the research facility, and foster expansion of research activities. Must have a Ph.D., qualifications for tenure faculty appointment, record of research achievement in lake and ocean science or technology, and management experience in marine research programs. Salary competitive. Apply with letter, curriculum vitae, names, addresses of three references by 27 June 1987. Apply to: Dr. Robert E. Holm, Graduate School and Research, P.O. Box 340, University of Wisconsin-Milwaukee, WI 53201. An Equal Opportunity/Affirmative Action Employer.

DIRECTOR-Center for Great Lakes Studies/Great Lakes Research Facility University of Wisconsin-Milwaukee (UWM). Major research unit of the Graduate School at UWM seeks applicants for a director to develop and manage interdisciplinary research programs, manage the research facility, and foster expansion of research activities. Must have a Ph.D., qualifications for tenure faculty appointment, record of research achievement in lake and ocean science or technology, and management experience in marine research programs. Salary competitive. Apply with letter, curriculum vitae, names, addresses of three references by 27 June 1987. Apply to: Dr. Robert E. Holm, Graduate School and Research, P.O. Box 340, University of Wisconsin-Milwaukee, WI 53201. An Equal Opportunity/Affirmative Action Employer.

ENDOWED CHAIR. Department of Psychology and Biobehavioral Sciences, University of California, Los Angeles (UCLA) School of Medicine, seeks appropriate candidates for Della Martin Chair in Psychiatry, endowed professorship for distinguished academic psychiatrist (English-speaking, eligible California licensure) committed to research especially on major mental illnesses of adolescents and young adults (for example, schizophrenia). Curriculum vitae and letter discussing career goals to: Arnold B. Scheibel, M.D., Chairman, Search Committee, UCLA Neurosciences Institute, 88-262 7706 Westwood Plaza Los Angeles, CA 90024.
THE AUSTRALIAN NATIONAL UNIVERSITY. Applications are invited from suitably qualified men and women for appointment as PLANT CELL AND MOLECULAR BIOLISTS in the RESEARCH SCHOOL OF BIOLOGICAL SCIENCES. Several research posts (Postdoctoral Fellow (PDF) or Research Fellow (RF)) are available to support and augment a major new program focused on Arabidopsis. They are: a PDF to study genetic aspects of production, selection and characterisation of mutants; a PDF to select and study mutants affecting allocation of seed and photosynthetic resources toward growth; a PDF to characterise mutations affecting CO2 transport and photosynthesis in physiological, biochemical and molecular terms; a PDF to study the genetic basis of regeneration in tissue cultures, particularly the role of the cytoskeleton and to undertake work on transformation; and a PDF or RF for molecular studies of morphogenesis and the cytoskeleton and calcium regulatory systems. A PDF (or RF) is also available to work in an associated program on grass systematics and evolution, aimed at complementing the present work of the Taxonomy laboratory on the broader aspects of grass classification. Relevant experience in cellular/molecular/genetic/biochemical research is desirable. Starting dates are negotiable in the period mid-1987 to mid-1988. Further particulars are available from the School Secretary, Research School of Biological Sciences. Closing date: 15 May 1987. Ref: BS: 12.3.1. Salary will be in accordance with qualifications and experience within the range: Postdoctoral Fellow Grade 1 (at a fixed point) $324,013 - $427,507 p.a.; Research Fellow $427,859 - $430,000 p.a. Appointment will be: Research Fellow normally for three years with the possibility of extension to maximum of five years; Postdoctoral Fellow normally two years, with the possibility of extension to maximum three years. Supernumerary, maternity leave and assistance with travel available. The University reserves the right not to make an appointment or to make an appointment by invitation at any time. Applicants should quote the reference number when submitting applications to R.V. Boys, Registrar, SPO Box 4, Canberra, ACT, 2001 Australia. THE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER.

Agricultural Research Service United States Department of Agriculture

AGRICULTURAL RESEARCH SERVICE is seeking innovative scientists for challenging positions in biochemistry research at the Northern Regional Research Center. Three positions will be available this Fall as part of an expanding team investigating microbial and enzymatic interactions with carbohydrate polymers from plants:

1. POLYSACCHARIDE BIOCHEMIST (GS-11/12) to study novel enzymatic approaches for introducing unusual functionalities into complex carbohydrate polymers. (Position No. 1W2560);

2. ENZYMOLIGIST (GS-11) to study carbohydrate modifying enzymes from microbial sources. (Position No. 1W2561);

3. BIOCHEMIST (MICROBIOLOGY) (GS-11) to study substrate recognition and attachment phenomena between microorganisms and insoluble substrates. (Position No. 1W2562).

Position (1) is a permanent position. Positions (2) and (3) are Research Associates with a maximum appointment of 4 years. Ph.D or equivalent required for each position. Salaries: GS-11, $27,172; GS-12, $32,567. The Northern Regional Research Center is a large, well-equipped major research facility of the USDA, housing more than 320 scientists and support personnel. To apply send resume and names of three references before June 1, 1987 to: Dr. J. Michael Gould, USDA/ARS Northern Regional Research Center, 1815 N. University Street, Peoria, IL 61604. Applications in response to this ad must be marked 7N005. Please specify clearly the position for which you are applying. The USDA/ARS is an Equal Opportunity Employer.

Merck Sharp & Dohme Research Laboratories is currently offering several excellent career opportunities for Molecular Biologists/Cell Biologists to join the expanding Department of Cellular and Molecular Biology.

MOLECULAR BIOLOGISTS
Responsibilities for these positions will include the utilization of a broad spectrum of techniques, including construction of cDNA libraries or genomic DNA libraries, DNA/RNA preparation, hybridisation, blot analysis, DNA sequencing, and transfection and cultivation of mammalian cells.

An M.S. or B.S. degree in Biochemistry, Molecular Biology, or the equivalent with at least 2 years of broad and significant experience in molecular biology is required.

CELL BIOLOGIST
Responsibilities for this position will include maintenance, characterization and analysis of mammalian and invertebrate cultured cell lines, serum-free media development, scale-up cultivation, and cell and media harvesting and processing. In addition, molecular biological procedures, such as RNA preparation, plasmid vector construction, DNA transfection, and transient and stable gene expression analysis will be performed. These techniques will be applied to the analysis and expression of genes of potential pharmaceutical interest.

An M.S. or B.S. degree in Cell Biology, Biochemistry, or the equivalent, with at least 2 years of significant experience in mammalian cell culture are required. Experience in molecular biological techniques is a plus.

Excellent salary and benefits programs accompany these positions at a new research building in Rahway, New Jersey. Please send your resume, three professional references whom we may contact, and salary requirements in complete confidence to: Mr. Jacques P. Kueny

MERCK & CO., INC.

IAG

Micro Chemi Luminescent Assay Systems...MCLAS Technologies, Inc. offers the opportunity to pursue scientific careers in a stimulating environment. We are seeking experienced people interested in becoming a part of a rapidly expanding company. There are currently several openings in the following areas:

FOOD MICROBIOLOGIST TECHNICAL SERVICES
B.S. degree in Microbiology/Food Science. 3-5 years industry experience in direct microbiological analysis of food products according to AOAC, USDA, FDA procedures. Immunochromatography and quality control background desirable. Individual will ultimately be responsible for product technical service within a region. Travel required.

MICROBIOLOGIST IMMUNOLOGIST
M.S. in Microbiology. Immunology or related discipline. 3-5 years experience in tissue culture techniques and animal studies. Previous work with macrophages desirable.

PRODUCTION MANAGEMENT
B.S. and/or M.S., 8 to 10 years hands-on experience in diagnostics manufacturing. Background should include fermentation, filtration, lyophilization, coating, filling, packaging and sterilization.

RESEARCH ASSISTANTS
B.S. in Microbiology with 3-5 years experience in virology and bacteriological research.

INSTRUMENTATION DESIGN ENGINEER
B.S. Electrical Engineering with 5 years experience in digital and microprocessor design. Previous experience with photomultiplier tube technology desirable.

We offer competitive salaries, benefits and stability for future development. Please send a resume, bibliography and references to:

MCLAS Technologies, Inc.
18585 Sigma Road,
San Antonio, TX 78258

Merck Sharp & Dohme Research Laboratories is currently offering several excellent career opportunities for Molecular Biologists/Cell Biologists to join the expanding Department of Cellular and Molecular Biology.

MOLECULAR BIOLOGISTS
Responsibilities for these positions will include the utilization of a broad spectrum of techniques, including construction of cDNA libraries or genomic DNA libraries, DNA/RNA preparation, hybridisation, blot analysis, DNA sequencing, and transfection and cultivation of mammalian cells.

An M.S. or B.S. degree in Biochemistry, Molecular Biology, or the equivalent with at least 2 years of broad and significant experience in molecular biology is required.

CELL BIOLOGIST
Responsibilities for this position will include maintenance, characterization and analysis of mammalian and invertebrate cultured cell lines, serum-free media development, scale-up culture, and cell and media harvesting and processing. In addition, molecular biological procedures, such as DNA/RNA preparation, plasmid vector construction, DNA transfection, and transient and stable gene expression analysis will be performed. These techniques will be applied to the analysis and expression of genes of potential pharmaceutical interest.

An M.S. or B.S. degree in Cell Biology, Biochemistry, or the equivalent, with at least 2 years of significant experience in mammalian cell culture are required. Experience in molecular biological techniques is a plus.

Excellent salary and benefits programs accompany these positions at a new research building in Rahway, New Jersey. Please send your resume, three professional references whom we may contact, and salary requirements in complete confidence to: Mr. Jacques P. Kueny

MERCK & CO., INC.
The Board of Regents of the University of Nevada System

PRESIDENT

Desert Research Institute

The Board of Regents of the University of Nevada System invites applications and nominations for the position of President of the Desert Research Institute. This autonomous statewide division of the university system conducts research programs in atmospheric sciences, water resources, energy and environmental engineering, social sciences and biological sciences funded by both governmental and private sources. Established in 1959, the Institute has a current annual budget of $12 million and a faculty of 100 professionals. There is a close association between institute research and university graduate programs. The President reports through the Chancellor to the Board of Regents; the position is equivalent to President of the other university campuses. The President is responsible for management of a diverse but coordinated research institute, for relationships with the research sponsors, the university system, the Board of Regents, the legislative and executive branches of the federal and state government and should be prepared to play an active role in assisting economic diversification in the state of Nevada. Qualifications include demonstrated management and leadership abilities, a distinguished record of achievement in scientific or engineering research, a broad background in the funding and conduct of research, and proven effectiveness in the areas of governmental, university, and community relations. A record of successful and substantial institutional fundraising is important. The committee will begin a review of applications with vita including a list of publications and summary of career research and support, on May 1, 1987. To apply, or for further information, contact: DRI Presidential Search Committee, University of Nevada System, 405 Marsh Avenue, Reno, Nevada 89509. An equal opportunity, affirmative action employer.

New Zealand Dairy Research Institute

DIRECTOR

Applications are invited for the vacancy created by the retirement of the Director of the New Zealand Dairy Research Institute from early January 1988. The appointment will be for an initial period of five years, with renewal(s) by mutual agreement.

The Institute undertakes research and development in all matters related to the conversion of milk into dairy products, including the market-oriented requirements of the New Zealand Dairy Board, through development work in new products and processes and functional variations of traditional ones. Other major activities include work for manufacturing dairy companies and the implementation of research findings.

Excellent laboratories and pilot plant are situated at Palmerston North adjoining the Massey University campus and adjacent to three major Divisions of the New Zealand Department of Scientific and Industrial Research.

The Institute’s staff totals 235 (105 Research Officers). Current annual expenditure, including the associated small-scale dairy plant, is about NZ$11.4 million.

Applicants should have a good degree in a relevant field, and have shown ability and leadership in research and the management of science/technology at a senior level. This experience should preferably include involvement in the identification and development of research projects in a commercially oriented environment.

The position carries a good level of remuneration related initially to qualifications and experience. Generously subsidized superannuation and a car are available.

Further information may be obtained from:

The Director
N.Z. Dairy Research Institute
Private Bag
Palmerston North
NEW ZEALAND

Applications, marked “Confidential” and addressed to The Chairman at the above address, should include personal details, curriculum vitae and the names of three referees. Applications close on 15 May 1987.

Analytical Biotechnology

Macromolecular Analysis

The Drug Metabolism Department of Hoffmann-La Roche is expanding, creating methods development opportunities for the isolation, characterization and quantification of novel peptide/protein drugs in clinical samples.

SR. SCIENTIST

You will be responsible for validated methods development. Requirements include Ph.D. and postdoctoral experience in Chemistry, Biochemistry, Immunology or a related field. The combination of Immunoassay, Bioassay and Chromatographic based quantification experience is highly preferred. Please respond to Eleanor M. Malone, Dept. DL-1.

ASSOCIATE SCIENTIST

You will assist in the above methods development, and must possess BS or MS in Chemistry, Biochemistry, Immunology or a related field, and 3-5 years of relevant experience. Please respond to Fran Newman, Dept. DL-2.

If selected, you will be rewarded with an attractive compensation package including salary, bonus and progressive benefits. For confidential consideration, please send your resume and salary (only those responses including present salary will be acknowledged), to the appropriate person and department at: Hoffmann-La Roche Inc., Nutley, New Jersey 07110.

We are an equal opportunity employer.

Hoffmann-La Roche

Working Today For A Healthier Tomorrow.
POSITIONS OPEN

DIRECTOR OF CLINICAL TRIALS
International research organization concentrating on family planning and the evaluation of contraceptive technology is seeking a Director for its Clinical Trials Group. Successful candidate will have an M.D., plus a master's level in pharmacology, or M.P.H., along with a strong background in biological science. This is an excellent opportunity to work with a diverse team of scientists and medical professionals.

DIRECTOR OF RESEARCH RESOURCES FACILITY—D.V.M., licensed to practice in the District of Columbia with postgraduate training in laboratory animal medicine. ACML Diplomate or eligibility for certification. The Director will assist the associate director in the development of resource materials, coordination of research and teaching activities in the animal care and research support areas. The position requires strong interpersonal and organizational skills. Applications to: Dr. Melvin, Department of Research Support Services, California, Irvine, CA. 92717

FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE
The Department of Physiology and Biophysics is seeking a faculty member with research interests in molecular, cellular, and/or structural aspects of biology. The applicant should have a Ph.D. and be able to teach an undergraduate course in cellular and molecular biology. Review of applications will begin upon receipt of complete files. Applications should include a curriculum vitae, a brief description of research interests, and the names of three referees. For further information, please contact: Prof. Dr. H. White, Chair, Department of Physiology and Biophysics, University of California, Irvine, CA. 92717

POSITIONS OPEN

FACULTY POSITION: The Department of Biology at Viterbo College invites applications for a 1-year/possible tenure-track position at the assistant professor (Ph.D.) level. The successful candidate should have experience in teaching microbiology, biochemistry, and immunology. Application, including curriculum vitae, three letters of reference, undergraduate and graduate transcripts, and a statement of teaching and research interests should be sent by 1 May 1987 to: Dr. Linda Malick, Chairperson, Department of Biology, Viterbo College, 815 South 9th Street, LaCrosse, WI 54601. Viterbo College is an Equal Opportunity/Affirmative Action Employer.

FOREST SCIENTIST QUALITY ASSURANCE SPECIALIST
Northrop Services, Inc. (NSI) is seeking a qualified individual to assist in the Quality Assurance (QA) Program for research on the effects of atmospheric deposition on forest ecosystems, part of the National Acid Precipitation Assessment Program. The individual will interact with researchers, organize and interpret performance evaluations, audit research sites, and prepare QA reports. The QA position is available near Philadelphia, Pennsylvania. M.S. degree or equivalent experience in forest science or related environmental science is required. Familiarity with forest field measurements and greenhouse operation required. Communication skills, general knowledge of QA, and familiar rhizic deposition research is desirable. Salary commensurate with qualifications. Send resume and names of three references by 1 May 1987 to: Ms. Susan Carey, Northrop Services, Inc. 200 SW 35th Street, Gainesville, FL 32607. NSI is an Affirmative Action/Equal Opportunity Employer.

GLYCOPROTEIN/CARBONACEOUS BIOMATERIALS POSTDOCTORAL POSITION available for post-Ph.D. training in glycoprotein and/or carbohydrate biochemistry (particularly chromatographic methods for sugars, oligosaccharides, and glycopeptides) to participate in ongoing research concerning the role of protein glycosylation in photosynthetic membranes. GET, and retrograde degenerations. Send curriculum vitae, recent reprints, and names of three references to: Dr. Steven J. Fliesser, Bascom Palmer Eye Institute, University of Miami School of Medicine, P.O. Box 16880, Miami, FL 33101.

MICROSURGEON
University of Pittsburgh School of Surgery is seeking to add a Microsurgeon to join the research efforts of its Micravascular Surgical Transplantation Laboratory. The microsurgeon will perform heterotopic heart transplants in rodents along with pre- and post-operative immunological monitoring of grafted animals. The ideal candidate will possess a M.D. degree with extensive experience in all aspects of microsurgery. A basic Ph.D. in immunology is essential. Salary to low $50,000. Send resume to: Paul J. King, 172 Thackeray Hall, University of Pittsburgh, PA 15260. Affirmative Action/Equal Opportunity Employer.

NEUROPHYSIOLOGY RESEARCH position to conduct voltage-clamp studies on neurons in gastropod mollusks. Work will be in conjunction with behavioral, pharmacological, and histological studies, and will overlap with studies dealing with parallel processing. Ph.D. or equivalent research experience is required. Computer experience is helpful. Available 1 July 1987 to 9 January 1988; extension possible. Closing date: 1 June 1987. Send three letters of reference and curriculum vitae to: George J. McNutt, Oregon State University, Mark O. Hatfield Marine Science Center, Newport, OR 97365. Equal Opportunity/ Affirmative Action employer.

IMMUNOCHEMISTRY
Seragen Diagnostics, Inc., an Indianapolis-based manufacturer of immunoassay reagents, has an immediate opening for an experienced scientist within the immunoassay products group. The position encompasses broad responsibilities for the development of technical ideas and reduction to practice to market introduction of new products.

The individual we seek should have 3 to 5 years of experience in immobilization of biological material in addition to experience in non-isotopic immunoassay development. The successful candidate should be highly self-motivated and goal oriented with strong oral and written communication skills. A Ph.D. is desired, but not necessary, in providing strong technical background.

Seragen Diagnostics offers competitive salary (commensurate with experience) and benefits programs. For prompt confidential consideration, please send resume and salary history to: Personnel Manager, Seragen Diagnostics, Inc., P.O. Box 1210, Indianapolis, IN 46206. Equal Opportunity Employer.

MOLECULAR BIOLOGIST/GENETICIST
Viggen, Inc., a leader in genetic testing, has an immediate opportunity for a scientist with a Ph.D. to set up and run a DNA probe laboratory. The company currently operates the largest chromosome analysis laboratory in the country.

Candidates must be familiar with all aspects of molecular biology, especially nuclear acid hybridization and RFLP analysis. The successful candidate will be expected to apply state-of-the-art technology to industrial DNA probe analysis, making the accurate processing of large sample volumes possible. This technology will be applied to both diagnostic and generic tests. This position will also involve working with academic and industrial scientists in the transfer of technolgy to Viggen.

Viggen is located in Santa Fe, New Mexico, in the southern tip of the Rocky Mountains. The region is rich in culture, and has abundant resources for outdoor recreation. Santa Fe is an hour away from both the Los Alamos National Laboratory and the University of New Mexico Medical School, providing opportunity for interaction with the scientific community. The company will provide a salary commensurate with experience and an attractive package of benefits. Please contact: Gregg L. Mayer, Ph.D., at 505-988-9744, or at the following address for more information:

Viggen, Inc. 435 State SW Drive Santa Fe, NM 87501

MOLECULAR IMMUNOGENETICS
We are seeking an individual to coordinate development of a histocompatibility typing lab using nuclear acid hybridization technology. This program will involve the use of polynucleotide-catalyzed gene amplification, and of nonradioactive probes. The position will entail interaction with the immunogenetics section of the research division. Minimum requirements are an M.S. or equivalent with experience or a recent Ph.D. Please send resume to:

Richard H. Aster, M.D., President
The Blood Center of Southeastern Wisconsin 1701 West Wisconsin Avenue Milwaukee, WI 53233
POSTDOCTORAL RESEARCH FELLOWSHIPS

MOLECULAR BIOLOGY—MOLECULAR IMMUNOLOGY

We are looking for Postdoctoral Research Fellows to join Dr. Mario Geysen's group working in a new era of drug development through the wide and systematic application of a unique peptide synthesis technology and concepts. Target areas cover virtually all therapeutic categories, e.g. hormone analogues, antiviral agents, vaccines, etc. A relevant PhD is essential with preference being given to candidates who have had one previous postdoctoral position.

These positions offer the prospect of independent research and publication will be strongly encouraged.

CSL is Australia's leading manufacturer of biologicals and has a strong commitment to Research and Development. The unique work in molecular immunology is conducted through Dr. Geysen's group and has very significant levels of funding and autonomy; the work is already being progressed on many fronts and through important international collaborative projects.

CSL's major facilities are located at Parkville which is four kilometers from the centre of Melbourne, and is in close proximity to the University of Melbourne, the Walter and Eliza Hall Institute of Medical Research and several other institutions.

We offer competitive salaries and travel and associated benefits for these 2 year appointments. Appointees will commence with us during the second half of 1987.

Please send a cv outlining your qualifications, description of scientific experience and the names of two referees, to Mr. E.D. Eade, Personnel Director, Commonwealth Serum Laboratories, 45 Poplar Road, Parkville, Vic. 3052, Australia, by 15 May 1987.
ASSISTANT PROFESSOR PHARMACOLOGY

THE PHILADELPHIA COLLEGE OF PHARMACY & SCIENCE invites applications for a tenure-track position in Pharmacology.

Candidates should have a PhD in Pharmacology with experience in the area of Cardiovascular Pharmacology. Preference will be given to individual with Post-Doctoral experience.

Candidates must be capable of mounting a vigorous research program in support of our graduate programs in Pharmacology and Toxicology.

In addition, they must participate in the teaching of undergraduate Pharmacy and Toxicology students. The position is to be filled on or before August 15, 1987.

Applicants should submit curriculum vitae and a list of references by May 1, 1987 to:

Mr. Gary L. Lage, PhD.
Chairman, Department of Pharmacology & Toxicology

PHILADELPHIA COLLEGE OF PHARMACY & SCIENCE
Woodland Ave. at 43rd St.
Philadelphia, PA 19104

EOE M/F/H/V

“The world expects excellence from Merck. Link your future with ours!”

ENZYMOLIGISTS

Merck Sharp and Dohme Research Laboratories has several excellent opportunities available in the newly created department of Enzymology.

SENIOR RESEARCH BIOCHEMIST-Ph.D. in Biochemistry/Chemistry with two or more years of post-doctoral experience in enzymology. This position will involve purification of enzymes from mammalian sources, enzyme inhibition and catalysis kinetics, and enzyme mechanistic studies. The successful candidate should have a strong record of achievement as evidenced by publication in refereed journals. Excellent oral and written communication skills are essential.

STAFF BIOCHEMIST-Temporary and permanent positions are available for candidates with a B.S./M.S. in biochemistry or chemistry with experience in enzyme purification and a working knowledge of enzyme kinetics.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey approximately 20 miles south of New York City. Our salaries, benefits, and growth potential are excellent.

Interested candidates should submit their curriculum vitae with a publication list, salary requirements, and the names of three references to:

Ms. Alaina L. Love, Merck & Co., Inc., P.O. Box 2000, R80M-TL1, Rahway, New Jersey 07065.

EQUAL OPPORTUNITY EMPLOYER

Merck & Co., Inc.

A highly qualified Toxicology Center in Rome is seeking an EXPERIENCE SCIENTIST

endowed with great organizing qualities to fill a challenging top management position.

The successful candidate will be responsible for organizing the activities of the Center and for promoting its high scientific image. He will be assisted, whenever necessary, by internationally recognized experts.

An attractive salary—relative to qualification and experience—and cultural opportunities at the highest level are offered.

Qualified candidates are kindly requested to submit their curriculum vitae to:

A. MENARINI S.A.S.—Pharmaceutical Industries—
Via Sette Santi, 3
50131 Florence, Italy.

Correspondence will be kept strictly confidential.
Pharmacologist

The Procter & Gamble Company has an immediate entry level opening for a Ph.D. pharmacologist or physiologist with research experience in neuropharmacology and electrophysiology. The position is in the analgesic research program at Miami Valley Laboratories in Cincinnati, Ohio. The applicant should have a Ph.D. in pharmacology or physiology with 0-2 years postdoctoral research experience. Requirements include a good understanding of the in vitro techniques used to study the actions of neurotransmitters and novel drugs on neuronal function. Specific responsibilities will include studying the effects of novel analgesic compounds on the peripheral and central nervous system.

Besides offering a stimulating environment for professional growth, the company provides a competitive employment package including paid relocation, and Company-paid health, dental and profit sharing benefits.

Candidates must be U.S. citizens or hold a permanent resident visa. Resumes with list of publications should be sent to:

Dr. T. J. Logan, Manager
Ph.D. Recruiting
Pharmacologist Position
The Procter & Gamble Company
Miami Valley Laboratories
P.O. Box 39175
Cincinnati, Ohio 45247

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RESEARCH INVESTIGATOR

G. D. Searle is a worldwide leader in the pharmaceutical industry. An outstanding opportunity exists for a qualified individual in our Research and Development Division located in the northern suburbs of Chicago.

Primary responsibilities include investigation of platelet-receptor ligand interactions. A strong background in platelet adhesion, activation, and aggregation, as well as the biochemistry and/or pharmacology of the coagulation system is required. The qualified candidate will have a Ph.D. and 1-3 years of experience with a good publication record in the field. The position has supervisory responsibility and requires strong interaction with members of the team.

Searle offers an excellent salary, high visibility, and good upward mobility. Qualified candidates please forward your resume in strict confidence to David Wackrow-UF9, G. D. Searle, Research and Development A-1, 4901 Searle Parkway, Skokie, IL 60077. An Equal Opportunity Employer.

BIOCHEMISTS

Hercules Incorporated, a Fortune 500 Company involved in the development and production of chemicals, fibers, and plastics, has immediate openings for 2 Biochemists at its main Research facility in suburban Wilmington, Delaware.

The successful candidate will have a Ph.D. in Biochemistry, Biophysics, or a related area. Research activities will include the chemical and physical modification of proteins particularly collagen or other structural proteins. As principal investigator, responsibilities will include the generation and execution of new ideas for the modification of materials for appropriate uses. Experience in biochemistry and biopolymers is essential for successful performance in this position.

Hercules Incorporated offers a competitive salary in addition to a comprehensive benefits package. Qualified applicants should forward a resume with salary requirements to: James Jaquin, Supervisor, Human Resources.

Hercules Incorporated
Research Center
Wilmington, DE 19894
Equal Opportunity Employer

HERCULES
GROUP LEADER ENZYMOLGY

The Pharmaceutical Research Division of Warner-Lambert has an immediate opening for an outstanding Ph.D. in Enzymology to the position of Group Leader/Enzymology in our Biochemistry Section. The selected candidate will head a small team and will participate in a multidisciplinary environment, generating novel drug discovery strategies and evaluation techniques for a variety of therapeutic categories.

Qualified applicants will possess the following:

- Ph.D. in Enzymology
- A minimum of 5 years postdoctoral experience with a strong background in enzyme reaction mechanisms, techniques of enzyme purification and in vitro assay. Experience in the enzymology of arachidonic acid metabolism would be considered an advantage.
- Excellence in research and oral communication skills are essential as are proven supervisory skills.

We offer excellent compensation and benefits at our modern facilities adjacent to the University of Michigan campus. Qualified applicants should send curriculum vitae in confidence to: Ms. S. Hultquist, Human Resources Representative, Warner-Lambert/Parke-Davis, 2800 Plymouth Rd., Ann Arbor, Michigan 48105.

FERROSAN RESEARCH DIVISION COPENHAGEN

The independent Division has during the last decade established several discovery drug research programmes based on novel neurobiological mechanisms with relation to most central nervous diseases. The innovative organisation will continue the strong commitment to research and development within neuropsychopharmacology.

Ferrosan Research Division is centrally located just outside Copenhagen.

With the expansion of our research we need:

EXPERIENCED BEHAVIORAL PHARMACOLOGIST

Applicants having at least 2 years experience in rodent behavioral pharmacology e.g. models for memory, tolerance development, withdrawal or abuse potential will be preferred. Please direct applications including full CV to:

Dr. Leif Helth Jensen
Head of Behavioral Pharmacology Dept.
A/S Ferrosan
Research Division
5 Sydmarken
DK-2860 Soeborg
Denmark
(Phone: (1) 69 21 11)

Microbiologist

A PhD level position in Microbiology is available at Du Pont's Experimental Station. As a microbiologist, you will conduct independent research programs focusing on the molecular biology of gram positive bacteria and mechanisms of protein secretion in prokaryotes. To qualify, you should have post-doctoral training in microbial genetics, recombinant DNA technology and biochemistry, followed by experience directing an independent research program.

You'll find a highly stimulating scientific environment in a modern research facility located near Wilmington, DE. We offer excellent compensation and benefits including relocation. Our Mid-Atlantic location offers an attractive lifestyle with easy access to a wide range of academic, cultural and recreational activities. Interested candidates should send their resumes with salary requirements and references to: S.T. Toy, Employee Relations Department, Room X50734, Du Pont Company, Wilmington, DE 19898.

IDEC Incorporated

IDEC Incorporated, a recently formed biotechnology company located in Mountain View and La Jolla, California is a leader in research involving immunoregulation with anti-idiotype antibodies. IDEC is currently conducting clinical trials at leading institutions with its proprietary technology. IDEC currently has excellent career opportunities for the following positions:

Research Director: Experienced research manager sought to lead corporate research programs. Candidate must have a recent record in the conception, execution, and management of innovative biological research, preferably in a product oriented environment. Candidate must demonstrate the ability to contribute meaningfully to the corporate research and development planning process, and to successfully lead scientists in pioneering biological research. Suitable candidate should possess a Ph.D. and/or M.D. or equivalent degree specializing in cellular biology and/or immunology with several years of managing experience.

Senior Scientists/Research Scientists: All levels of scientists with experience in immunoregulation, anti-idiotype network immunobiology, and molecular immunology are sought. Successful candidates should have academic or industrial experience with the ability to lead research programs. Suitable candidates must possess a Ph.D., and/or M.D. or equivalent degree.

Research Assistants: Candidates should have at least two years experience in an immunology lab. Experience should include technical expertise in hybridoma antibody development, tissue culture, immunochemistry and related areas. Candidate must have a B.A./B.S. or M.S.

For prompt, fully confidential consideration, please send your resume to Personnel Director, IDEC Incorporated, 291 North Bernardo Ave., Mountain View, Ca. 94043.

An Equal Opportunity Employer.
PRECLINICAL RESEARCH

Corporate headquarters of the NutraSweet Company is expanding its Preclinical Research staff. The successful candidates will join a dedicated project team involved in the design, development, and assessment of chemical and food additive research.

PHARMACOKINETIST

FIELD OF WORK AND DUTIES: Involved in metabolic assessment of new chemical candidates in support of new food additive petitions. Direct work in pharmacokinetics and development of biochemical methods is required. Expected to design and supervise studies related to absorption, distribution, metabolism, and excretion (ADME).

REQUIREMENTS: PhD in pharmacology/chemistry/organic chemistry. Four to Seven years post degree experience in a pharmaceutical company, and solid interpersonal and oral/written communication skills. A strong background in isolation/identification of metabolites and experience within vivo and in vitro methods used for ADME studies and familiarity with GLP’s are a real plus.

NEUROTOXICOLOGIST

FIELD OF WORK AND DUTIES: Involved in neurotoxicological/ neuropharmacological assessment of new chemical candidates as well as conduct of both applied and basic research designed to support new food additive petitions. Interact with academic/industrial scientists; design study protocols, implement and monitor studies; review reports; monitor general toxicology studies as needed.

REQUIREMENTS: PhD in toxicology/pharmacology (neurotoxicology emphasis) 3-5 years post degree experience with pharmaceutical company. Solid interpersonal and oral/written communication skills, and familiarity with GLP’s.

For consideration, send resume including salary history in confidence to:

The NutraSweet Company, Employment Supervisor, Box IIII,
Dept. PN, Skokie, Illinois, 60076 equal opportunity employer m/f/h

The NutraSweet Company

A Commitment to Excellence

The leadership enjoyed by our GIBCO/BRL product lines in the molecular and cell biology industries are evidence of our commitment to excellence.

As a division of Life Technologies, Inc., we have immediate openings for:

- **Molecular Biologist** — Ph.D. or M.S. degree in related field to do non-radioactive DNA detection and DNA-based diagnostic product development and/or in/situ methodology.

- **Histotechnologist** — Ph.D. or M.S. degree in related fields to develop in/situ hybridization methodology.

- **Assay Design Engineer** Ph.D., M.S. or B.S. degree in related field with extensive diagnostic development experience to work on user friendly DNA based diagnostic product formats.

- **Biochemist** — M.S. or B.S. degree in related field to do quality control of molecular biology and immunology product lines and/or production of phenol and formamide.

Our competitive salary and benefits combined with our geographic location make for a desirable atmosphere to build your career.

Other scientific positions are available.

Please submit your curriculum vitae to:

Mr. Richard L. Hotaling, Jr.
Personnel Manager
Life Technologies, Inc.
8717 Grovemont Circle
Gaithersburg, MD 20877

An equal opportunity employer, M/F/H/V

Neurobiologist

BS/MS

The Central Nervous System Research Unit of The Upjohn Company is building a group to develop strategies for the promotion of post-traumatic axonal regeneration and the treatment of neurodegenerative diseases. The successful Research Associate candidate will have a BS or MS degree plus at least one year of research experience in related neurobiological techniques. A research background in neurotrophic factors, extracellular matrix molecules, or neuronal development and response to injury is needed. Desirable techniques include: microsurgical implantation of prosthetic devices into experimental animals; immunohistochemical localization of neuronal markers in prepared specimens; and 2-D electrophoretic separation of isotope-labeled proteins. The position will include responsibility for laboratory organization, staff supervision, independent projects and preparation of research reports.

Kalamazoo is a medium-sized Southwestern Michigan community with access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers the opportunity for career growth, a competitive salary commensurate with experience, a comprehensive benefits program and relocation assistance.

For confidential consideration, please call from outside of Michigan toll free 1/888/253-8600, ext. 3-6757, (inside Michigan call collect 616/233-6757) to request an employment application be sent to you immediately. Please refer to ad number 21099-A when calling.

Upjohn

Our commitment to scientific excellence continues…

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RESULTS

We found that the treatment significantly increased the number of neurons expressing the target gene in the brain compared to the control group. This suggests that our therapeutic agent has potential for improving neural function in animal models of disease.

CONCLUSIONS

Our findings support the potential of our therapeutic approach for treating conditions associated with neural degeneration. Further studies are needed to evaluate the efficacy and safety of this treatment in human subjects.

ACKNOWLEDGMENTS

This research was supported by grants from the National Institutes of Health (NIH Grant Number X12345) and the Alzheimer's Association (Grant Number Y56789).

REFERENCES


Opportunities In Protein Biochemistry

The Protein Biochemistry Department in Biopharmaceutical Research and Development at Smith Kline & French Laboratories is seeking outstanding scientists with expertise in protein isolation and characterization. A variety of positions in process improvement and scale-up development as well as research in protein characterization (structure and function) are available.

ASSOCIATE SENIOR INVESTIGATOR (ref: PB 1)

Responsible for isolation of proteins from recombinant and natural sources and for developing procedures to produce biopharmaceuticals for clinical trials and commercialization. Responsibilities will include developing new protein purification methods amenable to large scale. The successful candidate will have a Ph.D. in Biochemistry or Biochemical Engineering and have at least two years postdoctoral experience in modern chromatographic techniques such as HPLC, ion exchange and affinity chromatography.

SENIOR SCIENTIST (ref: PB 2)

Responsible for planning, scheduling and supervising large scale protein purification according to cGMP's in order to support clinical supply needs and the development of commercial processes. Additional responsibilities will involve accumulating and analyzing laboratory and production data, collaboration with other scientists to develop appropriate scale-up procedures and the design of automated scale-up purification techniques. The successful candidate should have an MA/MS degree in a biochemical science with at least five years relevant experience or a BA/BS degree with at least eight years relevant experience in conducting experiments in large scale protein purification. Familiarity with regulatory guidelines, laboratory automation and preparation of products for human use is highly desirable.

ASSISTANT DIRECTOR (ref: PB 3)

Seeking a candidate with at least 8-10 years experience and strong record of scientific achievement in the field of hemostasis and/or fibrinolysis. Must have distinct leadership skills and potential to grow in this area. Will manage six to ten scientists including Ph.D.'s and associates in discovery of novel thrombolytics and development of drug targets for use in rational design/discovery of pharmaceuticals. Strong skills in verbal and written communication needed. Prior experience in drug discovery and development is desirable but not a must.

POSTDOCTORAL SCIENTIST (ref: PB 4)

Responsibilities include developing new techniques for isolation and purification of recombinant proteins. The successful candidate will have a Ph.D. in Chemistry or Biochemistry with thesis work involving separation of proteins and other macromolecules. Experience in HPLC of biopolymers, counter current chromatography or preparative electrophoresis is preferred.

ASSOCIATE SCIENTISTS (ref: PB 5)

Two openings exist for associate scientists (BS/MS) with degrees in Biochemistry or in Chemistry or Biology with relevant biochemical experience.

Position A will focus on the preparation of novel protein separation media such as affinity sorbents or new HPLC supports, and the use of these materials to develop new protein isolation procedures. The successful candidate will have demonstrated skills in organic synthesis and protein isolation.

Position B will be devoted to the isolation and purification of natural and recombinant proteins both at bench and large scale and to the development of new high performance chromatographic procedures for purification of recombinant products. Strong candidates will have proven skills in protein purification and familiarity with HPLC and electrophoresis.

We offer an excellent compensation and benefits package and an attractive relocation policy as well as a work environment that offers considerable opportunity for personal and professional growth. For confidential consideration, send your C.V. and names of three references, citing the appropriate reference number listed above to Robert F. Obst, R&D Senior Employment Administrator, SmithKline Beckman Corporation, 1576 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.
POSITIONS OPEN

POSTDOCTORAL POSITION/BIOPSYCHOLOGY
Available immediately at Brooks Air Force Base, San Antonio, TX. Studies of the effects of psychopharmacology and nutritional interventions on human performance and physiology will be conducted. Experience in psychopharmacology (especially human), electrophysiology, and related technologies is desirable. Application cutoff date: 30 May 1987. Send résumé to: Dr. A. J. Blume, Neurobiology, CNS Biology, c/o M. Mauer, University of Texas, Austin 78712.

POSTDOCTORAL Positions in MOLECULAR NEUROBIOLOGY are immediately available to study the regulation, expression, and structure of specific genes in the central nervous system. These genes include the amyloid gene of Alzheimer's disease (Dr. C. G. Kao), genes involved in neurotransmitter function like Interleukin-1 (Dr. M. F. Vitek), and various receptor genes (staff). A background in molecular biology or biochemistry is preferred. Please send curriculum vitae and names of three references to: Dr. A. J. Blume, Neurobiology, CNS Biology, c/o M. Mauer, University of Texas, Austin 78712.

POSTDOCTORAL or RESEARCH ASSOCIATE: Position available immediately to study biochemical aspects of intercellular transmitter action and regulation of the genes for the catecholamine neurotransmitter biosynthetic enzymes. Applicants should have a background in either recombinant DNA technology or neurochemistry/neuropharmacology. Send curriculum vitae, statement of research interests, and names of three references to: Dr. R. A. Chapman, Molecular Neurobiology Program, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine, Pittsburgh, PA 15213.

POSTDOCTORAL RESEARCH ASSOCIATE: Position available immediately to study the regulation of the genes for the catecholamine neurotransmitter biosynthetic enzymes. Applicants should have a background in either recombinant DNA technology or neurochemistry/neuropharmacology. Send curriculum vitae, statement of research interests, and names of three references to: Dr. R. A. Chapman, Molecular Neurobiology Program, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine, Pittsburgh, PA 15213.

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RESEARCH ASSISTANT—Position available to study T-cell immune regulation in multiple sclerosis. Background: T-cell fractionation, purification, and lymphokine research preferred. Applicants should send curriculum vitae and names of three references to: Dr. J. L. Greenstein, M.D., Department of Neuroimmunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

RESEARCH ASSOCIATES: Two positions to study regulation of key enzymes involved in carbohydrate metabolism in complex biological systems, with an emphasis on cellular and molecular biology approaches. One position is available immediately at University of Pennsylvania. The other position is available beginning September 1988 to be filled at any level (Assistant, Associate or Full Professor). Faculty will hold appointments in basic science departments (Physiology and Biophysics, Cell Biology and Anatomy, etc.) but be housed together in the Neurobiology Research Center. Faculty will strengthen existing research programs in integrative and cellular Neurobiology and extend the University’s scientific base in cellular and molecular biology to the Neurosciences. Excellent facilities, start-up funds and ongoing support are available.

Applicants in all areas of Neurobiology are encouraged to apply. Initial recruiting will place emphasis on integrating intracellular motor neurophysiologists with investigators modeling synaptic biophysics and molecular neurobiology of plasticity. Candidates should hold the Ph.D. or M.D. degree and have a minimum of 2 years postdoctoral experience. Successful candidates will be expected to maintain strong extramurally funded research programs. Teaching responsibilities are minimal.

Please send a curriculum vitae, statement of future research plans and names of references to: Dr. J. L. Greenstein, M.D., Department of Neuroimmunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

FACULTY POSITIONS IN NEUROBIOLOGY

UNIVERSITY OF ALABAMA AT BIRMINGHAM MEDICAL SCHOOL

The University of Alabama at Birmingham has recently established a new Neurobiology Research Center. Several faculty positions are available beginning September 1988 to be filled at any level (Assistant, Associate or Full Professor). Faculty will hold appointments in basic science departments (Physiology and Biophysics, Cell Biology and Anatomy, etc.) but be housed together in the Neurobiology Research Center. Faculty will strengthen existing research programs in integrative and cellular Neurobiology and extend the University's scientific base in cellular and molecular biology to the Neurosciences. Excellent facilities, start-up funds and ongoing support are available.

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DEPARTMENT OF DERMATOLOGY
POSTGRADUATE RESEARCH BIOCHEMIST
Ph.D., experience in cell biology and biochemistry. Incumbent will investigate the binding and processing of the angiostatin substance P and erythropoietin by endothelial cells of cultured cellular events/gene activation. Salary: negotiable. Submit a letter of interest, curriculum vitae, and the names of three references to: Dr. T. L. Weiss, Dermatology Department—190, University of California San Francisco, VA Medical School, 4150 Clement Street, San Francisco, CA 94112. Filing deadline: open until filled.

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Please send a cv outlining your qualifications, description of scientific experience and the names of two referees, to Mr. E.D. Eade, Personnel Director, Commonwealth Serum Laboratories, 45 Poplar Road, Parkville, Vic. 3052, Australia, by 15 May 1987.

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