PERSONNEL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Any deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 2 weeks prior to issue date (mailed on issue date).

POSITIONS WANTED: 40¢ per word, plus $4 for use of box number, per week. $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth): $35.00 per line; $350 minimum, per week. Minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line. No charge for use of box number. No agency commission for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders and/or cover letter including billing address required for all other advertising.

Structure ad copy on a separate page, on lines of 52 characters and spaces, including any desired heading. Each line of heading and/or extra spaces, and all partial lines must total to 60 characters or less. Each line of copy, less than 10 characters, equals a cent. Each line of copy, 10 characters or more, equals 10 cents. Maximum total, 17 cents. $35.00 = total cost of ad.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/6 page in size (38 lines) to:

SCIENCE Line Classified Advertising 1333 H Street, NW Room 400 Washington, DC 20005 Telephone: 202-326-6565

Send copy for Fractional Display ads, 1/6 page and larger, and all Marketplace ads to:

Schroeder Associates, Inc. 1516 Broadway New York, NY 10036 Telephone: 212-730-1000

Blind ad replies should be addressed as follows:

Box (five digit number) SCIENCE 1333 H Street, NW Washington, DC 20005

ASSISTANT DIRECTOR, Conservation Data Center Support. The Latin American Program is expanding the network of Conservation Data Centers. Assume leadership role to provide technical and scientific support to network, assist in representation of data, negotiate and administer contracts. Requires advanced degree in biology (preferably ecology or systematics), fluency in English and Spanish. Send résumé and cover letter by 20 March 1987 to: Richard Warner, The Nature Conservancy (TNCO), 1785 Massachusetts Avenue, NW, Washington, DC 20036. TNCO is an Affirmative Action/Equal Opportunity Employer.

Biologist, Ph.D. with postdoctoral experience and 4 years of service at a small liberal arts college seeks challenging position in teaching and research at university or college level. Have broad training background including genetics, biological oceanography, and ecology. Research focus in population genetics. Box 25, SCIENCE.

Chemical Engineer seeks position in biotechnology industry, converting research into production processes. Over 3 years’ hands-on experience in chemical process engineering and process supervision. Also R&D experience. Box 21, SCIENCE.

Clinical Chemist/Biomedical Scientist, Ph.D. Recently completed COMAC. Sought clinical biochemistry postdoctoral fellowship. Twelve years’ atherosclerosis research on blood platelets/vessel wall interactions. Experience with clinical test development, automation, antibody production, prostaglandin assays, cell metabolism, tissue culture, animal studies, blood platelet technology. Twenty-one publications. Seeking a position in R&D, or clinical laboratory management. Box 18, SCIENCE.


Immunologist, Ph.D. Six years’ industrial assay development (FIA, EIA) and monoclonal antibody experience (4 years management). Box 22, SCIENCE.

M.D., American trained. Board-certified anatomic pathology. Five years’ research experience at NIH, molecular biology, biochemistry. Actively engaged in research. Seeking academic or industrial setting where opportunities exist to combine interest in research with medical knowledge. Box 23, SCIENCE.
ASSISTANT PROFESSOR--BACTERIAL PATHOGENESIS/IMMUNOLOGY OR ASSOCIATE PROFESSOR--VIROLOGY/EPIDEMIOLOGY. The Department of Veterinary Science, University of Wisconsin-Madison invites applications for two faculty positions. Assistant Professor--Bacterial Pathogenesis/Immunology--tenure-track position. The candidate is expected to develop an independent research program focused on bacterial disease control and to direct graduate student training. The primary teaching responsibility is a graduate level course in her/his area of research expertise. Opportunities exist for collaboration with other Veterinary Science faculty having programs in experimental pathology, immunology, molecular biology, virology, microbiology, reproductive and cardiovascular physiological and parasitology. Departmental facilities include a P3 laboratory. Candidates for both positions must possess a Ph.D. or D.V.M./Ph.D. or equivalent. Submit curriculum vitae, description of research goals, teaching experience, and names of four references to: Dr. Gary A. Splitter, Professor, Department of Veterinary Science, 1685 Linden Drive, Madison, WI 53706. The University of Wisconsin-Madison is an Affirmative Action/Equal Opportunity Employer.

MARY BALDWIN COLLEGE

Mary Baldwin College, a church-related liberal arts college for women, seeks applications for the position of ASSISTANT PROFESSOR OF BIOLOGY beginning September 1987. The successful candidate will have responsibility for molecular and general genetics, and comparative physiology, and will teach courses in majors and nonmajors in a liberal arts context. He/she will need to develop courses in an area of her/his own interest, as well as take part in the introductory biology program. Mary Baldwin College is an Affirmative Action/Equal Opportunity Employer. Women and Minorities are encouraged to apply. Send letter of application, resume, transcripts, and three letters of recommendation to: James Lott, Dean of the College, Mary Baldwin College, Staunton, VA 24401. Deadline for applications is 30 March 1987.

BIOLOGICAL ANTHROPOLOGIST

EMORY UNIVERSITY seeks an outstanding biological anthropologist at the rank of Assistant Professor, to begin teaching in the fall of 1987. The candidate will be expected to conduct research and to supervise undergraduate and graduate research. A Ph.D. is preferred, and college-level teaching experience is required. Applicants should send a statement of research interests and plans, plus the names, addresses and telephone numbers of three references to: Dr. William E. Bass, Department of Biology, Emory University, Shippensburg University, Shippensburg, PA 17257. Closing date for application materials is 15 March 1987. Shippensburg University is an Equal Opportunity/Affirmative Action Employer. Women and racial minorities are encouraged to apply.

BIOLOGY FACULTY POSITION

THE UNIVERSITY OF MICHIGAN

The Department of Biology and the Women's Studies Program at the University of Michigan are considering an opening for a faculty position at the tenure level. At this time we solicit inquiries from scientists who have an active research program in an area of biological science. We are particularly interested in identifying potential candidates who have contributed to a successful research program in biology and participate in the teaching and scholarship of the Women's Studies Program. Send inquiries or a letter of application with curriculum vitae to:

Chair, Biology/Women's Studies Position
Department of Biology
The University of Michigan
Ann Arbor, MI 48109-1048

A Non-Discriminating, Affirmative Action Employer.

COMPUTER SCIENTIST/ENGINEER IN ARTIFICIAL INTELLIGENCE—Several openings exist for scientists experienced in artificial intelligence, especially with electronic neural network background. The ideal applicant will have a medical/biology background with a master's or Ph.D. in computer science, electrical engineering or related discipline. Experience with Symbols, Lisp, Prolog, etc. or similar non-numeric background is desired. For those lacking extensive experience but with interest and academic qualification, we have additional openings at the postdoctoral level. In the immediate consideration, send your résumé to: Human Resources, General Dynamics Data Systems Division, Western Region, P.O. Box 2501, San Diego, CA 92138, An Equal Opportunity Employer.
COMPARATIVE PHYSIOLOGY: Biology Department seeks candidates for 2-year, renewable appointment, September 1987. To teach comparative animal physiology plus developmental biology, neurobiology, or physiological ecology, as well as participate in team-taught undergraduate program. Position can be filled by a postdoc or a PhD. Candidates should have publications in the area of comparative physiology. This is a full-time, academic year, tenure-track position to be filled at the assistant professor level. Applicants should submit a resume, transcripts, and three letters of reference to: Professor John L. Howland, Department of Biology, 15705 College Drive, Bowling Green, Ohio 43403. Deadline: February 15, 1987. Boitman College is committed to Equal Opportunity through Affirmative Action.

DEPUTY GROUP LEADER for the Beamline Group: Member of Beamline Optics. The incumbent will be responsible for leadership of a design and fabrication team. This team will work primarily in support of the 1- to 2-GeV Synchrotron Radiation Laboratory. Responsibilities will include design and fabrication of grazing incidence VUV/soft x-ray systems for both relay optics and spectroscopic applications. Unique and challenging high resolution system designs are involved with the added complication of significant photon beam power loading. The incumbent will provide technical assistance as well as beamline access to scientific users and will be responsible for budgetary matters. The incumbent will participate in managing the overall project planning, scientific, technical and management reviews, and interact with high-level officials both internally and externally. Demonstrated experience in project organization and leadership is required. A degree in optics and optical design or experience in the utilization of synchrotron radiation in the VUV/soft x-ray spectral region is required. Experience in astronomical or plasma physics x-ray optical systems would be considered relevant. Must have demonstrated leadership experience with scientific groups and management and leadership skills. A successful record of achievement is more important than the specific discipline in which the applicant obtained his/her optical experience. To apply, please send two copies of resume to: Lawrence Berkeley Laboratory, 1 Cyclotron Road, Employment Office 10-9410, Berkeley, CA 94720. Refer to Job A/4030. An Equal Opportunity Employer M/F/H.

DIRECTOR, PMATUNING LABORATORY OF ECOLOGY UNIVERSITY OF PITTSBURGH

The Department of Biological Sciences is seeking an ECOLOGIST to serve as a full-time faculty member on campus, and as Director of the Pymatuning Laboratory of Ecology, near Pittsburgh. The recipient will be a highly equipped investigator with a successful program of summer courses in terrestrial and aquatic ecology, graduate and faculty research projects, conferences, and the potential for year-round use. It is situated about 40 miles north of Pittsburgh. We seek an established scientist with a strong reputation in any branch of ecology who will assume the leadership role in the department's program in ecology and evolution. Experience in generating external funding is important, and some administrative background would be desirable. Most of all, we seek someone with the energy and creativity to undertake the planning and development of an expanded program in environmental biology, centered at the Pymatuning Laboratory, but closely integrated with the department's activities at the Pittsburgh campus. It is expected that one or possibly two junior appointments will be made available in the next few years as part of this program. The appointment is anticipated at the level of associate professor with tenure, beginning as early as September 1987.

Applications should include curriculum vitae, copies of recent publications, a statement of research interests and future plans, and the names and addresses of at least three potential references. Deadline for applications is 1 May, 1987. Address applications to: Ecology Search Committee, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. An Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF CHICAGO

The Joseph P. Kennedy, Jr. Mental Retardation Research Center and the Department of Pharmacology are seeking new faculty with research interests related to the molecular and cellular biology of the nervous system. Applicants should send their curriculum vitae and bibliography, a statement of research interests and plans, and the names of three references to: Dr. Robert L. Perfman, Director, Kennedy Mental Retardation Research Center Department of Pediatrics The University of Chicago 5841 S. Maryland Ave., Box 413 Chicago, IL 60637.
**Molecular Biologist**

Collaborative Research, Inc., specializes in the development, manufacture and marketing of biotechnology products and services with commercial applications in the health care and food industries. We are looking for an individual to join our Molecular Genetics Department in improving the process for producing pharmaceutical proteins through the use of recombinant DNA technologies in yeast.

Candidates will possess a PhD and at least 2 years Postdoctoral experience in Molecular Biology, Biochemistry or a related field and will have experience in cloning and expression of genes, and in protein separation and characterization.

CRI is located just 20 minutes outside of Boston and offers an excellent benefits program. For consideration, please submit your C.V. or resume, list of publications and the names of 3 references to the Human Resources Department, Collaborative Research, Inc., Two Oak Park, Bedford MA 01730.

Equal Opportunity Employer

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**ENTOMOLOGIST**

This challenging opportunity offers you major program assignments involving internal consulting and applied research on insect behavior and control. This will afford you not only great technical challenge, but also high visibility to all levels of company management.

The qualified candidate should have experience in stored-product pests, insect control and biochemistry/physiology. Strong interpersonal communication skills are also important. An advanced degree in Entomology is essential; PhD preferred.

You will be joining Philip Morris U.S.A. — one of the world’s largest producers of tobacco products. We offer you a supportive work environment, state-of-the-art resources, a competitive salary, and complete benefits including relocation assistance to historic Richmond, Virginia. For consideration, send your resume to: Barbara Wolf, Dept. #1287, PHILIP MORRIS U.S.A., P.O. Box 26603, Richmond, VA 23261. An Equal Opportunity/Affirmative Action Employer.

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**ASSISTANT PROFESSOR**

**ANIMAL PHYSIOLOGIST**

Tenure track position for Fall 1987, contingent upon funding. Responsibilities include development of undergraduate course in experimental animal physiology as well as advanced course in her/his specialty. Other teaching duties would support a new program option in Biotechnology; preference given to candidates with expertise in cell culture and molecular biology. The successful applicant is expected to establish an active research program, seek external funding, and direct thesis research in our Biology (BS & MS) and Biochemistry (Ph.D.) programs. Interested individuals should forward their curriculum vitae and three letters of reference to: Dr. Thaddeus Osmolski, Chairperson, Department of Biological Sciences, University of Lowell, One University Avenue, Lowell, MA 01854.

The University of Lowell is an Equal Opportunity/Affirmative Action, Title IX, 504 Employer.
ECOGEN INC., an expanding biotechnology company located in the Philadelphia area and specializing in microbial pesticide development and biological control expects to have openings in early 1987 for Research Scientists (Ph.D. required) and/or Research Assistants. Areas of expertise and training desired:

Molecular Genetics: Bacterial genetics (especially with Bacillus and Pseudomonas), DNA cloning, transposon mutagenesis and construction of gene fusions.

Physiology/Biochemistry: Soil microbiology and/or rhizosphere ecology; protein separation techniques and peptide mapping.

Product Development: Fermentation technology; formulation and evaluation of biological and non-biological pesticides.

Interested candidates for any of these positions should submit a current resume, including the names, addresses, and telephone numbers of three references, to:


Ecogen is an Equal Opportunity Employer.

TOXICOLOGIST
Senior Research Scientist

Rapidly expanding Adria Laboratories, a progressive R&D-oriented pharmaceutical company, has created a new career opportunity for an experienced Toxicologist.

This highly visible position will play a major role in Adria’s aggressive drug development efforts by supervising preclinical safety evaluation studies. Key challenges will be to design protocols, conduct toxicity studies, evaluate data, and prepare reports for IND’s, NDA’s, and ANDA’s.

A PhD in Pharmacology or Toxicology and a minimum of 3 years experience in toxicity within the pharmaceutical industry are required. Knowledge of various phases of toxicity research including acute, sub-chronic and chronic studies is preferred.

Adria provides a generous salary and benefits package, strong career advancement opportunities and an attractive work environment in our new Columbus, Ohio-based headquarters/labatory facilities. Investigate our growth and your ability to grow with us by sending C.V. and salary level to: Adria Laboratories, Staffing-JWK, P.O. Box 16529, Columbus, OH 43216. An Equal Opportunity Employer M/F/H/V.

GASTROINTESTINAL BIOCHEMICAL PHARMACOLOGIST
(Research Scientist)

Rorer, a worldwide ethical pharmaceutical company, has an immediate career opportunity in its Research Division located in suburban Philadelphia.

Our Gastrointestinal Biology Group is seeking an individual with a PhD in Pharmacology or Biochemistry who has a good publishing record and is interested in drug discovery research. Experience in receptor ligand interactions and cell isolation assays is essential. An understanding of GI Pharmacology/Physiology is preferred but not required.

We offer competitive salary, a full paid benefits package and a pleasant work environment. If your credentials meet our requirements and you are interested in exploring a career with us, submit a resume including salary requirements to: Barbara F. Lippmann, Rorer Central Research, 800 Business Center Drive, Horsham, PA 19044. Equal Opportunity Employer, M/F.

Rorer Central Research
THE ISO TOPE, STRUCTURE AND DYNAMICS GROUP (INC-4) at the Los Alamos National Laboratory seeks postdoctoral candidates for an immediate opening to study the biochemistry and physiology of metabolism in methylotrophic bacteria. The successful candidate will join in active research efforts in one of three areas: 1) the biochemical mechanism of electron transport proteins 2) the regulation of the formate/dihydropyruvate pathway and 3) the elucidation of carbon assimilation pathways in vivo using $^{13}$C-labeling and NMR spectroscopy. The group maintains well equipped fermentation and biochemistry laboratories as well as three modern NMR spectrometers. Candidates must have a Ph.D. in biochemistry, microbiology or related field. The candidates need not have experience in NMR spectroscopy. For more information on the research projects, please contact the principal investigators Dr. Clifford J. Unkefer or Dr. James A. Fee (505) 667-1001.

INC-4 maintains active research programs in inorganic, physical and biochemistry. The biochemistry program includes efforts in bioorganic, bioinorganic, biophysical and protein chemistry, bacterial toxins, as well as metabolism. Postdoctoral candidates have the opportunity to interact with researchers in a broad spectrum of disciplines.

Postdoctoral appointments are for one year, renewable for a second year, and salaries range from $31,260 to $34,620 per year. Appointees receive employee benefits, including incoming travel and moving expenses.

TO FORMALY APPLY, please send resume, employment application, three letters of reference, and undergraduate and graduate transcripts to: Carol M. Rich, Human Resources Development Division, POSTDOC-AX, Los Alamos National Laboratory, Los Alamos, New Mexico 87545. Los Alamos is an Affirmative Action/Equal Opportunity Employer.

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Goddard Space Flight Center SEEK A DIRECTOR OF SPACE AND EARTH SCIENCES

Scientific leader of NASA's largest Space Science organization

750 scientists and engineers

6 Laboratories

Laboratory for Atmospheres

Laboratory for Terrestrial Physics

Laboratory for High Energy Astrophysics

Laboratory for Geodesy

Laboratory for Astronomy and Solar Physics

Laboratory for Extraterrestrial Physics

Goddard Institute for Space Studies (New York)

2 Divisions

Space Data and Computing Division

Administration and Resources Management Division

2 Project Management Offices

Crustal Dynamics Project

Orbitem Satellites Project

Reporting to the Director, Goddard Space Flight Center, the position is in the Senior Executive Service: salary range is $84,750-$177,500, depending upon qualifications.

Candidates must have a Ph.D. or equivalent education or experience, and a research background in space and/or earth sciences including a substantial record of publications and/or significant responsibility for guidance of the scientific content of major programs in the space and/or earth sciences. Candidates must have demonstrated ability to provide interdisciplinary program leadership, and to direct and participate in programs and projects in a broad spectrum of theoretical and experimental research in the space and/or earth sciences. A familiarity with the content, objectives and purposes of NASA's scientific program is highly desirable.

A Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below), should be sent to NASA/Goddard Space Flight Center, Attention: Ms. Arietta Love, Code 221, Greenbelt, Md., 20771. Applications will be accepted through March 31, 1987.

For further information and application forms, please call 202-358-5319 (Ms. Arietta Love).

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Saudi Arabia

The Research Centre for the King Faisal Specialist Hospital and Research Centre in Riyadh, Saudi Arabia, has a staff of about 150 and approximately 100,000 square feet of fully equipped research labs. It is currently seeking highly qualified Research Technicians with relevant experience in one or more of the areas listed below to assist in its mission of providing research in a broad range of diseases in collaboration with the clinical department of the 500-bed tertiary referral hospital. There may also be a few positions open for post doctoral scientists.

Biochemical Pharmacology
Electrophysiology, Cardiovascular Pharmacology
Pediatric Metabolic Disorders and Genetics
Tumor and Radiation Biology
Nuclear Genetics
Oncogene Research
Genetic Toxicology and Carcinogenesis
Cell Biology and Hormone Receptors
Biochemical and Clinical Endocrinology
Clinical Physiology
Pharmacokinetics and Drug Metabolism
Immunology and Allergy
Virology
Parasitology
Connective Tissue Metabolism
Radiochemicals
Drug Development
Synthetic Organic Chemistry
Radiochemistry

Salaries are attractive and potentially tax-free for those who qualify. The exceptional benefits include furnished lodging, free transportation, 30-day annual paid vacation, bonus pay and leave. Positions are for a 24-month commitment. The selected candidates will be employed by and have a contract with the Government of the Kingdom of Saudi Arabia.

Please send a letter of application with the names of three (3) references and a resume/CV to: Dr. William L. Welrich, M.D., F.A.C.S., HCA International Company, Dept. S-0227, One Park Plaza, P.O. Box 550, Nashville, TN 37202-0550, USA with a copy to Dr. Abass H. Al Marzouky, Executive Director, Research Centre, King Faisal Specialist Hospital and Research Centre, P.O. Box 3554, Riyadh 11211, Saudi Arabia. HCA is an Equal Opportunity Employer.

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HCA International Company
GENETICIST. The Department of Biology, University of Central Arkansas, invites applications for a Ph.D. tenure-track position at the assistant professor level. The individual will teach both undergraduate and graduate genetics, and biology for non-science majors. Preference will be given to applicants whose professional background includes population genetics, evolutionary biology, and biometry. Candidates with an active or a proposed research program will also receive priority. Submit curriculum vitae, a brief description of teaching and research career goals, and three current letters of reference to: Dr. Edmond Griffin, Chairman; Department of Biology, University of Central Arkansas; Conway, AR 72032. The deadline for receipt of application is 1 April 1987. An Equal Opportunity Employer.

GENETICIST UNIVERSITY OF ILLINOIS

The School of Life Sciences, University of Illinois at Urbana-Champaign invites applications for an associate professor in molecular genetics. Full description ran 16 and 23 January 1987. Send résumé and names of three references to: Professor J. Cronan, School of Life Sciences, University of Illinois; Urbana, IL 61801. To re- ceive full consideration, applications should be received by 15 March 1987. An Equal Opportunity/Affirmative Action Employer.

HEMATOLOGIST/ONCOLOGIST

The Department of Pediatrics and Human Development of Michigan State University is seeking a Board Certified/eligible pediatric hematologist/oncologist. This individual will be a full-time member of the department, and will work directly with the pediatric hematology/oncology group, made up of two pediatric hematologists, a nurse practitioner, a child psychologist, a social worker, and parent volunteers. There is a close association with the Michigan State University research program, as well as the immunology section of the department. Facilities are available for individual research, both clinical and laboratory-based. For information contact: Michael L. Netzloff, M.D., Professor and Acting Chairman, Department of Pediatrics and Human Development, College of Human Medicine, Michigan State University, East Lansing, MI 48824-1317. An Equal Opportunity/Affirmative Action Institution.

HYDROLOGIST, UNIVERSITY OF CALIFORNIA

(UC) BERKELEY The Departments of Plant and Soil Biology and Forestry and Resource Management are recruiting a Soil Hydrologist. Appointment level may be assistant, associate, or full professor, depending on qualifications and experience. The position is 90% research in the Agricultural Experiment Station and 10% teaching. Application deadline is January 15, 1987. The Department of Soil and Water Management is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST

Veterinary biotechnology manufacturer has a position available in the field of molecular biology for an individual with Ph.D. degree in microbiology or biotechnology. Experience in research and development of immunological and biotechnical approaches is required. Send résumé and letter of interest to: Personnel Manager Beecham Laboratories P.O. Box 221 Westville, IL 62092 Equal Opportunity/Affirmative Action Employer.
Syndagen Is Always Interested In Excellence

Syndagen, a leading biotechnology company, in Boulder, Colorado, offers the opportunity to pursue scientific careers in a stimulating intellectual and physical environment. We seek recent Ph.D.s with postdoctoral experience and more senior people interested in becoming part of a rapidly expanding company. There are currently openings for the following scientists:

PROTEIN BIOCHEMIST to identify, purify, and characterize proteins with potential applications as human pharmaceuticals. The projects are likely to involve work on both natural and recombinant proteins.

BIOANALYTICAL CHEMIST must be familiar with a variety of assay techniques for proteins. Require Ph.D., 2-5 years' industrial experience in a production environment.

BIOCHEMIST/BIOCHEMICAL ENGINEER—PROTEIN PURIFICATION to scale up processes for recombinant proteins. Industrial experience preferred. Ph.D. or equivalent experience.

Syndagen offers competitive salaries, generous benefits, and the financial stability required for future development. Please send a CV, bibliography, and references to:

SYNERGEN Recruitment Director 1865 33rd Street Boulder, CO 80301

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IMMUNOLOGISTS

We are one of Japan's major pharmaceutical companies and have now expanded into ten overseas locations for the research and development of new pharmaceuticals. Our strong commitment to a directed basic research program in autoimmune disease has created several outstanding career opportunities at our Rockville, Maryland facility for Scientists in the following disciplines:

- PhD. Requires at least two years postdoctoral experience with murine models of autoimmune disease to investigate the role of T cells in disease activity.
- BS. Must have several years experience in tissue culture, animal handling, cytotoxic assays and general biochemical techniques.

Otsuka places a strong emphasis on publication and collaboration with the university scientific community. If you have the qualifications necessary to fill one of these openings and you are interested in professional growth in a stimulating research environment at the same time you receive a competitive salary and a comprehensive benefits package, you should forward a current CV plus the names of several references to: Dr. Walter Newman, Chief Scientist, Immunology.

Otsuka Pharmaceutical Co., Ltd. Maryland Research Laboratories P.O. Box 4165 Rockville, MD 20850

"Otsuka, people creating new products for better health worldwide."
An Equal Opportunity Employer

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Applications Scientist
Centrifugation

The Spinco Division of Beckman Instruments, a world leader in the development of bioanalytical instrument systems, is seeking a creative professional to join its Applications team. The successful candidate will be involved with the development and dissemination of new techniques associated with preparative and analytical ultracentrifugation.

A broad background in the practice and techniques of preparative and analytical ultracentrifugation is required. The ideal candidate will have a PhD in a life or physical science discipline, 5 years' ultracentrifugation experience, strong written and verbal communication skills and a desire to develop and disseminate information relative to centrifugation applications.

We offer competitive salary, benefit and relocation packages. For confidential consideration, send your resume and salary history to: Fred Krueger, (JA), Beckman Instruments, Inc., 1050 Page Mill Road, Palo Alto, CA 94304. Applicants must have legal right to work in the United States. We are an equal opportunity employer.

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BECKMAN
A SmithKline Beckman Company
The Centers for Disease Control is seeking a MEDICAL VTY. M.D. or equivalent degree to work with biosafety level 4 viruses (including lassa fever, ebola, marburg, congo crimen hemorrhagic fever and yellow fever) in the Viral and Rickettsial Disease Containment Laboratory and under field conditions. Must have minimum of 8 years of laboratory experience in virology including 4 years working with biosafety level 4 viruses including isolation, propagation, and characterization. Experience in designing and conducting experiments on disease pathogenesis in animals (including primates) under level 4 conditions. Must have 6 months to 1 year of clinical and epidemiologic experience with viral hemorrhagic fevers including therapy and study of pathophysiology of disease in humans. Will be required to travel internationally. Should be highly skilled in the operation of technology and capable of establishing and maintaining effective working relationships with a broad array of individuals, including U.S. and foreign government officials, scientists, and field workers. Salary range $38,727 to $45,763. Interested applicants should submit curriculum vitae and names of three professional references to: Louise Griggs, Personnel Management Specialist, Centers for Disease Control, 1600 Clifton Road, NE, Building 1, Room 1042, Atlanta, GA 30333. The Centers for Disease Control is an Equal Opportunity Employer.

MOLECULAR GENETICIST—Psychiatric Genetics Program, Department of Psychiatry, Medical College of Virginia/Medical College of Virginia (MCV/VC) is recruiting a full-time research scientist interested in applying molecular genetic techniques to neuropsychiatric disorders. Must have Ph.D. or equivalent advanced training in molecular genetics or related field. Should have experience with in vitro techniques such as cell culture and a strong background in immunological techniques. Experience working with cell lines is required. Will be responsible for day-to-day laboratory management and guidance of research technicians. Salary range $35,886 to $43,588. Interested applicants should submit curriculum vitae and three letters of reference to: Dr. R. K. Kuruvilla, Department of Psychiatry and Human Genetics, MCV Box 751, Richmond, VA 23298. MCV is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MOLECULAR VIROLOGIST
The Department of Medical Microbiology and Immunology, The Ohio State University Medical Center, invites applications for a tenure-track faculty position at the rank of assistant professor. Applicants must have a strong background in molecular virology, emphasis on herpesviruses (Epstein-Barr virus in particular). Qualified applicants should arrange to have curriculum vitae and three letters of recommendation sent to: Ronald Glaser, Ph.D., Professor and Chairman, Department of Medical Microbiology and Immunology, The Ohio State University, 333 West 10 Avenue, Columbus, OH 43210. Deadline for completed applications is 31 March 1987. The Ohio State University is an Equal Opportunity Employer.

PHARMACOLOGIST/TOXICOLOGIST
Tenure-Track Appointment
The College of Pharmacy at Washington State University invites application for an assistant professor effective fall, 1987. A Ph.D. degree in pharmacology/toxicology or related discipline is required, a professional degree in pharmacy and postdoctoral experience are preferred. Responsibilities include teaching pharmacology to professional, graduate, and advanced undergraduate students, active participation in our Pharmacology/Toxicology Graduate Program (currently consisting of 31 faculty and 32 graduate students) and development and direction of faculty research program. We offer the successful candidate outstanding research facilities, access to modern instrumentation, a competitive salary, opportunities for professional growth, and the opportunity for living in a first-class community.Send three letters of recommendation, curriculum vitae and a statement of research interests to: Dr. Thomas R. LaHann, School of Pharmacy, Washington State University, Pullman, WA 99164-6510. Review of applications will begin 15 April 1987 and continue until the position is filled. Washington State University is an Equal Opportunity/Affirmative Action Employer.

PEDIATRIC PATHOLOGIST
The Department of Pathology, Wayne State University School of Medicine, Detroit, Michigan and the Children's Hospital of Michigan, invite applications for a Pediatric Pathologist with a strong commitment to teaching and research. Candidates should be board certified or eligible and immediately be licensed or licensable to practice in Michigan. The Children's Hospital of Michigan is a 290-bed hospital and one of the largest teaching institutions in the Detroit Medical Center. The hospital serves as the sole teaching arm for pediatrics and pediatric pathology. The Department of Laboratory Medicine of the Children's Hospital is a fully accredited laboratory currently managed jointly by a professional and technical staff. The Department performs over 25,000 determinations annually. The responsibilities are necropsy and surgical pathology. The candidate selected will have a joint appointment in the Department of Pathology, Wayne State University School of Medicine and the Children's Hospital of Michigan. Interested applicants should send curriculum vitae, personal statement, and three letters of reference to: Joseph Winters, M.D., Chairman, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201. An Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST, CARDIOVASCULAR, needed to fill a tenure-track assistant professorship. Teaching proficiency essential. Send inquiries and applications to: D. F. Maggs, Creighton University Medical School, Omaha, NE 68178.

PHYSIOLOGIST, Ph.D., M.D.
Prior training and experience in electrophysiological techniques applied to episodic transport. Junior faculty position starting 1 April 1987. Salary negotiable. Send resume and names of three references to: John P. Gallant, M.D., Department of Medicine, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Affirmative Action/Equal Opportunity Employer.

PHYSIOLOGIST/PHARMACOLOGIST
Applications are invited for the position of DISCIPLINE HEAD of physiology/pharmacology. The desirable candidate will have earned a Ph.D. or equivalent degree in pharmacology or pharmacology. The position is tenure-track. The successful candidate will be expected to continue the tradition of excellence in research, teaching and service, and to contribute to the prestige of the department. Salary range $30,000-38,000. Interested applicants should submit curriculum vitae, and three letters of reference to: Dr. G. P. Zech, Chairman, Department of Pharmacology, University of Michigan Medical Center, Ann Arbor, MI 48109. University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW/ASSISTANT RESEARCH SCIENTIST
Position available immediately in Physician Scientist Unit for research involving development of monoclonal antibodies to human T-lymphocyte antigen. Salary range $21,000-25,000. Interested applicants should submit curriculum vitae and three letters of reference to: Dr. B. H. Potter, Department of Pathology, Duke University School of Medicine, Box 3734, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available for Ph.D. or M.D. with prior training in biochemistry and/or molecular biology to participate in research on factors which control the proliferation of Hela cells in culture. Send curriculum vitae and three letters of reference to: Dr. James J. Flavin, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104. University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW
ORTHOPEDIC CHEMICALS DIVISION
PLANT PATHOLOGIST
The Agricultural Chemicals Division of Chev- een Chemical Company is seeking a Ph.D. plant pathologist with expertise in molecular biology and screening and research program. The successful applicant will design and direct laboratory and greenhouse research programs to identify and evaluate the intrinsic antifungal activity of commercial and biologicals for use in agriculture. This position is in the Postgraduate Research Group located at Chevron's new agricultural research facilities in Richmond, CA. It offers an exceptional opportunity to establish your own program and become a member of a multidisciplinary team in a stimulating research environment.

Interested individuals should send their resumé to: Chevron Chemical Company, Mr. S. K. Fortune, Supervisor, Human Resources, P.O. Box 4010 Richmond, Ca 94804-0010 An Equal Opportunity Employer.

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE POSITIONS
DEPARTMENT OF PEDIATRICS AND MICROBIOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
CHILDRENS HOSPITAL OF LOS ANGELES, CALIFORNIA
Several (3 to 5) positions immediately available for well-trained Ph.D., or equivalent experience, molecular biologists to study the biology of the Epstein-Barr virus and its expression in a variety of cell lines. Minimum of 3 years research experience in molecular biology preferred. Must have experience in recombinant DNA technology and/or cloned virus research. Salary $20,000 to $35,000 depending on experience. Please contact: Dr. Yuen Kai Fung or Dr. William Benedict at:
P.O. Box 5470 Los Angeles, CA 90054-0700 Telephone 213-669-2959

POSTDOCTORAL OR RESEARCH ASSOCIATE position available immediately for 2 to 3 years to participate in molecular cloning and expression of the genome of the malaria merozoite. Salary negotiable, depending on experience, with curriculum vitae, references, and prior publications. Send statements on the function of the putative oncogene in retinoblastoma. Experience in recombinant DNA technology and/or experience with transgenic mice required. Salary: $20,000 to $35,000 depending on experience. Please contact: Dr. Andrew S. Kraft, University of Alabama Cancer Center, 313 THT, 1900 University Boulevard, Birmingham, AL 35294. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
Available for Ph.D. or M.D. with prior training in biochemistry and/or molecular biology to participate in project on tumor metastasis. Salary and starting date negotiable. Apply to: Dr. R. B. Brinsner, Department of Surgery, Harvard Medical School, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115

POSTDOCTORAL POSITION
Postdoctoral position for research on transgenic animals. Work includes microinjection of genes into eggs, embryo transfer, and development of transgenic mouse lines expressing new gene constructions. Ability to work independently and with an understanding background and/or interest in neurobiology preferred. Apply with curriculum vitae to: Dr. R. J. Brinsner, Department of Surgery, Harvard Medical School, 77 Ave. de Louis Pasteur, University of Pennsylvania, Philadelphia, PA 19104.
IMMUNOSCIENCE RESEARCH
Ph.D. Pharmacologists
Continued expansion has created two positions for research pharmacologists to work as part of a multi-disciplinary team conducting research directed at discovering novel drugs to treat inflammatory and allergic diseases. These positions involve studying the effects of inflammatory and allergic mediators, and developing in vivo assays to evaluate agents designed to interfere selectively with inflammatory and allergic processes. Successful candidates will have a Ph.D. in Pharmacology or equivalent and several years of postdoctoral experience. Job #1

NEUROSCIENCE RESEARCH
BS/MS Biochemical Pharmacologists and Cell Biologists
Qualified candidates will have a BS or MS in a biological discipline and preferably experience in one or more of the following areas: radioreceptor assays, quantitation of neurotransmitters/peptides, measurement of intracellular second messengers, cell biological techniques. Some familiarity with neuroanatomy and experience with cell culture and computerized data analysis would be an asset. Job #2

BS/MS Behavioral Neuroscientists
Qualified researchers will have a BS or MS in experimental psychology or biology, experience in small animal surgery and behavioral assessment techniques. Familiarity with neuroanatomy and neurochemistry an asset. Must be interested in the study of basic brain mechanisms in the control and expression of behavior. Job #3

Abbott Laboratories. One of the nation’s best-managed companies. A $3.8 billion leader in health care products worldwide. The corporation recognized in the scientific community for having one of the sharpest, most advanced professional environments anywhere. Our Discovery Group now continues this tradition by spearheading new product developments in pharmacology through aggressive research.

TOXICOLOGISTS
The State of California’s Department of Health Services is recruiting TOXICOLOGISTS for immediate openings. Vacancies exist in Sacramento and Berkeley. The areas of involvement are environmental and occupational toxicology, with specific emphasis on quantitative risk assessment, carcinogenicity, and reproductive toxicity. The annual salary is $46,152-$55,824.

Employment with CDHS depends on successful completion of an oral civil service examination, which may be taken over the telephone. Applications are accepted on a continual basis; however, the deadline for the next examination is April 1, 1987.

Requirements: Possession of a doctoral degree in toxicology or a closely related field and three years postdoctoral experience, including consultation on and interpretation of toxicological findings relative to probable human health hazards.

Position Description: Generally, the toxicologist serves as a statewide expert on the toxicological properties of products and chemicals as they relate to human health problems; interprets experimental study results in terms of toxicological properties and hazards, including risk assessments for carcinogenicity and reproductive toxicity; evaluates, advises and consults on the adequacy of toxicological data submitted by other organizations; advises on precautionary labelling for hazardous chemicals and products; advises in cases of accidental exposure or poisoning; testifies as a witness in hearings and court procedures; and prepares reports and scientific papers for publication.

Application: Send curriculum vitae to:
California Department of Health Services
Office of Environmental Health Hazard Assessment
714 P Street, Room 478
Sacramento, CA 95814

For assistant or further information, contact Robin Shimizu at (916) 324-7572.

The California Department of Health Services is an equal opportunity employer.
POSTDOCTORAL POSITION IN MATHEMATICS/BIOTECHNOLOGY

The University of Maryland Center for Environmental and Estuarine Studies (UMCES), Horn Point Environmental Laboratories, located on Chesapeake Bay, is seeking to fill a postdoctoral position in any one of the following research areas: coastal ecology; invertebrate behavior, development, ecology, and physiology; nutrient cycling and productivity of phytoplankton, zooplankton, and vascular plant communities; physical oceanography; and salt marsh ecology. The position is available from 1 October 1987 for a year with possible renewal for a maximum of 2 years. Send résumé, three letters of reference by 30 April 1987 to: Dr. W. Michael Kemp, Chairman, Postdoctoral Search Committee, Horn Point Environmental Laboratory, P.O. Box 775, Cambridge, MD 21613. The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to work in the area of cellular carcinogenesis. Previous experience in this area, or in enzymology, organic chemistry or immunology is essential. The successful candidate will be expected to initiate an ambitious Ph.D. research program in molecular biology with interest in the regulation of eukaryotic transcription. The position is available immediately for a period of 2 years. Applications with curriculum vitae should be sent to:

SANDOZ

Sandoz Ltd., Personnel Department, Reference 7801
Attention: Mr. K. Zbinden, P.B.
CH-4002 Basle/Switzerland

POSTDOCTORAL POSITION IN INVERTEBRATE NEUROPHYSIOLOGY

Available 1 April 1987. Join a project investigating how identified "command neurons" function in behaving animals (crustaceans), and how sensory input affects their function. In addition, we are initiating studies on the neurochemistry of selected "command neurons". Persons familiar with invertebrate and d-filling techniques preferred. Send curriculum vitae and two or three letters of reference to: Dr. James A. Larimer, Department of Zoology, The University of Texas at Austin, Austin, TX 78712. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN CHEMICAL CARCINOGENESIS

Available for research on mechanisms of tumor induction by nitrosamines. Emphasis on early events in carcinogenesis including carcinogen metabolism, DNA alkylation and oncogene activation. Send curriculum vitae and names of two references to: Dr. Michael C. Archer, Department of Medical Biophysics, University of Toronto, Ontario Cancer Institute, 500 Sherbourne Street, Toronto, Ontario, Canada M4X 1K9.

POSTDOCTORAL POSITION IN FETAL PHYSIOLOGY/ENDOCRINOLOGY

Available 1 July 1987. Position supported by USPHS-NHLBI training grant. Various aspects of the regulation of fetal cardiovascular-endocrine interactions, the regulation of fetal and placental growth and differentiation by growth factors and hormones, and the hormonal and neuroendocrine regulation of the onset of labor are under investigation. Studies may involve the use of in vitro and in vivo approaches as well as mathematical modeling. Applicants should have a strong background in endocrinology, physiology, cell biology, or mathematics. Send curriculum vitae and the names of three references to: Dr. Lawrence D. Longo, Division of Perinatal Biology, Department of Physiology, School of Medicine, Loma Linda University, Loma Linda, CA 92350. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available after 1 April 1987 to study the molecular stress responses in human tumor cells treated with anticancer drugs that alkylate and cross-link DNA. Salary range: $21,000 to $24,000. Send résumé, summary of research, a letter of recommendation and three letters of reference to: Dr. J. Seidenfeld, The Cancer Center Northwestern University Medical School, 303 East Superior Street, Chicago Illinois 60611. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Position available to study neuropeptide precursor processing enzymes. Investigations will elucidate the role of these processing enzymes in the control of peptide neurotransmitter and peptide hormone biosynthesis. Enrollment in a Ph.D. program is essential. Send curriculum vitae, description of research experience, and three references to: Dr. Vivian Y. H. Hook, The Department of Zoology, University of New England, 4301 Jones Bridge Road, Bethesda, MD 20814.

POSTDOCTORAL RESEARCH ASSOCIATE

and research assistant (B.S./M.S.) positions available for studies of mutant mice exhibiting erroneous copper metabolism. Strong molecular biological expertise with training/experience in protein isolation, radiolabeling, cell culture, cell culture devisable. Send curriculum vitae and names of three references to: Dr. H. Rausch, Zoology Department, University of Massachusetts, Amherst, MA 01003. Telephone 413-545-2656. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION IN CELL AND MOLECULAR TOXICOLOGY

The fellow will study the role of immune cells in chemically induced toxicity using classical as well as advanced techniques in cell biology and immunology such as investigations of the fluorescence activated cell sorter. Candidates should have laboratory or coursework experience in tissue culture, immune cell function and xenobiotic metabolism. This is an excellent opportunity for a developing scientist to train in the burgeoning field of molecular toxicology. Send credentials to: Professor Robert Snyder, Director, Joint Graduate Program in Toxicology, Rutgers University of New Jersey and the University of Medicine and Dentistry of New Jersey/Robert Wood Johnson Medical School, Department of Pharmacology and Toxicology, Rutgers College of Pharmacy, Piscataway, NJ 08855-0789.

POSTDOCTORAL RESEARCH ASSOCIATE/INSTRUCTOR

Position available to study the relationship of growth regulation of epithelial cells to carcinogenesis. Experience with molecular biological and cell receptor techniques. Curriculum vitae and three references: Samuel M. Cohen, M.D., Ph.D., Pathology and Microbiology, University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, NE 68105. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

(i) Molecular basis of human prostate cancer development and carcinoma metastasis; (ii) analysis of progression of the transformed phenotype in human melanoma cells; (iii) molecular basis of differentiation in normal and tumor cells. Experience in molecular biology and recombinant DNA technology. Send curriculum vitae and have three letters of reference sent to: Dr. P. B. Fisher, Cancer Center/Institute of Cancer Research, Columbia University, College of Physicians and Surgeons, New York, NY 10032. Affirmative Action Employer.

POSTDOCTORAL RESEARCH IN MOLECULAR BIOLOGY/GENETICS

Two postdoctoral positions are available to study nucleic acid structure and function with a view to gene cloning and recombinant protein overproduction. For further details, contact the Department of Genetics and Medical Genetics with technical support. Send résumé to: Dr. Nicos Panayotis, M.B., 5900 Collins Road, P.O. Box 27609, Lansing, MI 48909. M.B. is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH APPOINTMENTS

are occasionally available in the Department of Biotechnology at Emory University School of Medicine, Atlanta, GA 30322. Appointments are normally made for 1 year, but with the possibility of renewal for a maximum of two more years. Two positions are offered for the research interests of the faculty are available from the department upon request, and highly qualified persons are invited to apply directly to the faculty member with whom they wish to work. If no position is available for that faculty member, the application may be circulated to other members of the department with similar research interests. Applications should be submitted including research interests and goals and, the names and addresses of references. Emory University is an Equal Opportunity/Affirmative Action Employer.

Applications are invited for PROFESSOR AND CHAIRPERSON, Department of Entomology and Applied Ecology, superior achievement in research and provide leadership in developing and implementing a Ph.D. program to augment a strong M.S. Research specialty is open but should complement the goals of the department. Salary and fringe benefits are competitive. The University of Delaware is a mid-sized, comprehensible land grant institution with convenient access to major museum. USDA and industrial research facilities. The position is available 1 July 1987. The search will continue until the position is filled. Send résumé and names, addresses, and telephone numbers of four references to: L. E. Lunt, Department of Entomology and Applied Ecology, University of Delaware, Newark, DE 19717-1300. The University of Delaware is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.

RESEARCH ASSOCIATE (M.S./Ph.D.) available immediately to study receptor synthesis, and membrane turnover at the neuromuscular synapse. Experience in electron microscopy required. Background in immunocytochemistry and/or hybridoma technology helpful. Send résumé and names of three references to: Dr. S. D. Burstein, Neurology Department, Baylor College of Medicine, Houston, TX 77030.

NATIONAL INSTITUTE ON AGING
NATIONAL INSTITUTES OF HEALTH

Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study molecular biological aspects of aging brain and human neuropsychological disorders. The successful candidate will be expected to carry out research that will complement some of the following areas of investigation: (1) characterization of the molecular changes in the aging rat brain and in the postmortem human brain in relation to Alzheimer's disease; (2) examination of proto-oncogene and growth factor expression in the CNS and in specific neuronal populations; (3) examination of altered gene expression in a trisomic mouse model of Down's syndrome.

Applications are invited from individuals having a Ph.D., M.D., or combined degrees plus experience in either of the following: molecular approaches to gene expression, in situ hybridisation or neuroanatomy. Salary range is $17,000 to $47,786 per annum commensurate with qualification and experience. Applicants should submit their Curriculum Vitae to Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6C 103, 9000 Rockville Pike, National Institutes of Health, Bethesda, Maryland 20892. An Equal Opportunity Employer.
THE MAX-PLANCK-GESELLSCHAFT

invites applications for the position of a

RESEARCH GROUP LEADER

from promising young scientists who have achieved a degree of international recognition in their field, preferably in

Molecular Biology, Cell Biology, or Developmental Biology.

The successful applicant will be expected to conduct a vigorous, original and independent research programme at the Friedrich-Miescher Laboratory in Tübingen.

The position is for 5 years, carries a salary of about 70,000 DM p.a. (C3 scale of the Bundesbesoldungsgesetz) and is roughly equivalent to an Assistant Professorship (U.S) or University Lectureship (UK). There is no teaching commitment.

The group will have modern laboratory facilities, operating expenses, and funding for scientific and technical co-workers.

Applications, including a tabular curriculum vitae, list of publications, and a description of major scientific achievements and future research plans, should be submitted until April 15, 1987,
to:
Max-Planck-Gesellschaft zur
Förderung der Wissenschaften e.V.
- Generalverwaltung -
Postfach 847
D-800 München 1.

NATIONAL INSTITUTE ON AGING
NATIONAL INSTITUTES OF HEALTH
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study electrical properties of neuronal cell membranes during development in tissue culture. Research will involve:

1. Growing mammalian neurons in culture;
2. Examining action potential and membrane properties with intracellular microelectrodes;
3. Performing voltage and current clamping to identify and characterize individual membrane currents;
4. Using patch clamp recording techniques to characterize kinetics of individual ionic channels and analyze channel number.

Experiments will be done in relation to morphological and neurochemical analyses. The position is that of a Staff Fellow, Senior Staff Fellow or Medical Staff Fellow, with a salary of $17,000 to $47,788 per annum commensurate with qualifications. Appointments vary in duration from 1 to 7 years. The position is located in Bethesda, Maryland, and is available immediately.

Applications are invited from qualified individuals having a Ph.D., M.D., or both, and pertinent research experience. Interested candidates should submit their Curriculum Vitae to Stanley I. Rapaport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6C 163, Rockville Pike, National Institutes of Health, Bethesda, Maryland 20892.

An Equal Opportunity Employer

President
MOUNT SINAI MEDICAL CENTER

The Board of Trustees of the Mount Sinai Medical Center invites applications and nominations for the position of President.

As the Chief Executive Officer of the Medical Center, the Mount Sinai Hospital and the Mount Sinai School of Medicine (CUNY), the President will be directly responsible to the Board of Trustees.

Nominees or candidates should have a strong record of accomplishment in academic health settings and be familiar with the broad mission of an institution dedicated to fostering comprehensive patient care, medical and graduate education, clinical and basic research, and public service programs. They should also have proven leadership and executive experience. Nominations or applications should be addressed to:

Dr. David A. Hamburg
Chairman, Search Committee for President

THE MOUNT SINAI MEDICAL CENTER
One Gustave L. Levy Place
New York, New York 10029
Att: Mr. Milton H. Sisselman
19 East 98th Street, 5A (Box 1251)
An Equal Opportunity Employer

SR. SCIENTISTS

Beckman's Diagnostic Systems Group has immediate openings for Sr. Scientists in the areas of Immunochemistry and Special Chemistry Development.

Immunochemistry

You will perform synthesis of organic derivatives, work with immunoassays and participate in the development of new products. You should have an MS or PhD in Chemistry or Biochemistry, and over 2-4 years of industrial experience with an emphasis in organic synthesis, hapten protein and protein-protein synthesis, and experience in the development of immunoassays.

Special Chemistry

You will design and conduct analyses to determine the properties of novel chromogenic and fluorogenic compounds, and participate in the development of new enzyme assay reagents and control products. You should have an MS or PhD in Analytical and/or biochemistry with over 2-4 years of industrial development or clinical research experience. Current knowledge of spectrophotometry, fluorometry, enzyme characterization and assay methodology is required. PC experience highly desirable.


DIAGNOSTIC SYSTEMS GROUP
BECKMAN
A SmithKline Beckman Co.
The People Project

Energizing Phoenix

Research & Development Director

As Arizona's major public utility, we've been keeping the spirit strong for over 75 years...a spirit reflected in our dedicated people. We've continued to meet the water/power challenges of our expanding metro area through state-of-the-art technology and innovative ideas.

We are currently seeking a Director to maintain overall responsibility for the activities of our R&D department in developing/coordinate projects relating to the supply, demand and quality of energy and water. Specific responsibilities involve developing potential long-range, strategic research issues and developing/directing research programs that enhance SRP's capabilities to meet the new challenges of the future. The professional we seek must have a PhD in a technical field and at least 5 years research and development experience in the utility industry.

Salt River Project offers a competitive salary, extensive benefits and excellent potential for professional growth. In addition, we are located in the Valley of the Sun, where our refreshing outdoor lifestyle and abundant recreational activities match our year 'round climate.

Please send your resume with salary history to: C. Sciarro, Salt River Project, Dept. 50227, P.O. Box 52025, Phoenix, AZ 85072-2025.

Regional Medical Associate

Pharmaceutical Marketing

Currently we have an opening in the Ohio Valley Region for a Regional Medical Associate to combine both scientific expertise and marketing skills. The selected candidate will report directly to the Regional Vice President and will be headquartered in either Indianapolis, IN or Cleveland, OH. Responsibilities are to establish effective relationships within key medical institutions, providing scientific liaison and in-depth information essential to appropriate use of SK&F's products. Will also have training responsibility at the Representative, Medical Staff and Pharmacy levels. 35-40% travel.

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

In addition to an independent work environment where personal and professional growth are a way of life, we offer an outstanding compensation/benefits package geared to today's market. Please send resume and current earnings to:

Box 24

SCIENCE

We are an Equal Opportunity Employer,

M/F/H/V

Director

Cell Biology and Immunology

Biogen Research Corporation, with laboratories in Cambridge, Massachusetts, is seeking a Ph.D. with extensive research expertise to lead their Cell Biology and Immunology group. This group is one of four within the R&D division and has responsibility for a) functional characterization of recombinant proteins in vitro and in vivo systems, b) bioassay and immunoassay development, c) study of cell growth control, and d) exploratory research in immunology and inflammation.

The director of the group will be an integral member of the Research management team and also interface with Production, QA/QC and clinical groups in the development of recombinant proteins as pharmaceuticals.

Candidates should have a Ph.D., several years of professional experience in either academics or industry, and a substantial publication record.

Applications are invited for appointment to the Chair of Psychology which will become vacant upon the retirement of Professor G. Singer at the end of 1987. It is anticipated that the appointee will take up the position early in 1988.

The appointment will be made in the field of psychobiology. Scientists with a record of research excellence in any specialisations within psychobiology consistent with the resources of the Department of Psychology are invited to apply. The new professor will be expected to provide leadership in research, postgraduate supervision, and teaching in psychobiology, and to contribute substantially to the continued development of the Department of Psychology.

The Department of Psychology has excellent facilities for psychobiological research. Full details of these facilities, as well as information on the Department generally, undergraduate and postgraduate programmes in psychology, and the research interests of academic staff members are available.

Enquiries should be addressed to Professor R. Over, Department of Psychology, La Trobe University, Bundoora, Victoria, 3083, Australia. Phone (613) 478 3122, extension 2949 or the Deputy Registrar, Ms Susan Hocking Phone (613) 478 3122, extension 2025.

Salary: A$55,348 per annum.

Applications marked 'in Confidence' quoting reference number 150/46/88 including curriculum vitae and the names and addresses of three referees should be forwarded to the Deputy Registrar, La Trobe University, Bundoora, 3083, Victoria, Australia, by April 30, 1987.

Equal Opportunity is University Policy.

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**MilliGen:**

**Opportunities in Biotechnology Instrumentation and Chemistry**

MilliGen is a newly formed division of Millipore focused on developing new instrumentation and chemistries for DNA and protein research. Specifically, the division is involved with synthesis and sequencing technology, and with complementary separation technologies.

Rapid growth within the division and several recent acquisitions, have opened up key positions within MilliGen:

**R&D**

**SR. PROTEIN/PEPTIDE CHEMIST**

Requires experience in protein purification and peptide sequencing, including current microsequencing technologies. Peptide synthesis experience with both Fmoc and t-Boc methods is desired.

**MOLECULAR BIOLOGIST**

Position requires experience in gene cloning, expression of bacteria and yeast, and in current technologies such as hybridization, blotting, DNA sequencing, and site-specific mutagenesis.

**POLYMER CHEMIST**

Experience in modification of polymers, synthesis of polymeric reagents and immobilization techniques is required.

**MARKETING**

**BUSINESS UNIT MANAGER**

Analysis and Purification

Products-Requires product development experience with membrane filtration and/or Chromatography products. Marketing or business development experience is preferred.

**DIRECTOR OF MARKETING**

Instruments and Chemicals-Requires experience in all phases of marketing both chemicals and instrumentation products to Biotech and Life Sciences markets.

**PRODUCT MANAGERS**

DNA and Peptide

Instrumentation-Requires product management experience with analytical instrumentation, DNA and/or Peptide experience is preferred.

**SALES**

**APPLICATIONS SPECIALIST**

Western Region-Requires experience selling analytical instrumentation to the biotechnology marketplace. A degree in one of the life sciences is essential.

If you are interested in a high-growth, high-visibility fast-moving opportunity — with the resources and support of the world leader in analysis and purification — please send your resume to Employment Manager, Millipore Corporation, 80 Ashby Road, Bedford, MA 01730.

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**CSIRO**

**RESEARCH FELLOW**

**MOLECULAR BIOLOGIST**

A$28107–A$34681

**DIVISION OF TROPICAL ANIMAL SCIENCE**

**LONG POCKET LABORATORIES**

**INDOODOOPILLY QLD**

**GENERAL:** The Division of Tropical Animal Science undertakes research activities on the improvement of animal health and production, particularly cattle production, in tropical Australia. It has programs on breeding and management, disease and parasite control and nutrition.

**A** major area of research being conducted at the Division's Long Pocket Laboratories is the development of experimental vaccines against diseases. The Division has groups undertaking immunological, biochemical and molecular biology studies on the antigens of disease agents. A number of molecular biologists are being appointed to assist these studies. One of these programs is aimed at alleviating the potentially fatal toxoplasmosis, tick paralysis, caused by the Australian paralysis tick *Ixodes holocyclus* in domestic livestock and pets.

The tick paralysis program has reached the stage where the feasibility of vaccinating animals against the crude toxin has been demonstrated and antigen purification and characterisation is well advanced.

**DUTIES:** To undertake collaborative research work to produce the *Ixodes holocyclus* antigen molecule in whole or part by recombinant DNA methods.

**QUALIFICATIONS:** A PhD degree or equivalent qualifications in the field of recombinant DNA technology.

**TENURE:** A term of three years with Australian Government superannuation benefits available.

**APPLICATIONS:** Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No M7800, should be directed to:

The Chief

CSIRO Division of Tropical Animal Science

Private Bag No 3

INDOODOOPILLY QLD 4086

By March 27, 1987.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

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POSTDOCTORAL RESEARCH POSITIONS available now for biophysical studies of membrane mechanisms of cell surface receptor function. Experience in single-channel recording or electrophysiology is desirable for studies of ion channel interactions and the control of current dynamics of reconstituted, genetically modified and synthesized transmembrane channels. Studies of the dynamics of receptor function, receptor cytoskeleton interactions and trafficking will be conducted using novel optical, fluorescence image acquisition and digital image analysis to measure receptor motion and map membrane potentials, intracellular calcium and pH in individual cells. Applicants have generated needs in our biophysics laboratory for expertise in biochemistry and cell biology as well as in quantification of reagents necessary to conduct such studies. All candidates should send curricula vitae, publication list and references to: Professor Walt W. Webb, Cornell University, Applied Physics, Clark House, Ithaca, NY 14853-2801. Cornell University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE: Forty hours per week; 8:30 a.m. to 4:00 p.m., $25,000 per year. Applicant will be responsible for the synthesis, structural elucidation, purification, and biological evaluation of complex organic molecules. Applicant shall work with radiolabeled and cell cultures using standard clinical bioassay procedures. Applicant shall also be responsible for pharmacological evaluation. Minimum 6 years of college, Master of Science in Organic Chemistry, 1 year of experience. Must know how to conduct modern spectroscopic techniques, including nuclear magnetic resonance, ultraviolet, infrared, mass, and high-pressure liquid chromatography. If interested, please send resume to: ILLINOIS JOB SERVICE 910 South Michigan Avenue-Room 333 Chicago, IL 60606 Attention: Marie E. Ninneman Reference # 6330-NA AND AM-Paid RAID University Position

RESEARCH ASSOCIATE: ELECTRON MICROSCOPY Position available immediately to use transmission and scanning electron microscopy in conjunction with fluorescent microscopy to study the morphology of acid secreting cells of mammalian and amphibian intestine. Experience in thin sectioning and high resolution electron and photomicrography required. Send curriculum vitae and names of three references to: Dr. John F. White, Department of Physiology, Emory University, Atlanta, GA 30322. An Equal Opportunity Employer.

RESEARCH ASSOCIATES Somatogenetics International has immediate openings for research associates with Bachelors and Masters degrees in microbiology or biochemistry. The successful applicant will have experience in the techniques of molecular biological analysis and instrumentation, and be a self-motivated investigator capable of independent work. Please include all relevant experience in your resume, and send in confidence to: Somatogenetics International, Inc. 350 Interlocken Parkway Suite 100 Broomfield, CO 80020

SPECTROSCOPIST to be Director of the Mass Spectrometry Laboratory, School of Chemical Sciences, University of Illinois, Urbana-Champaign. The successful candidate will manage one of the nation's premier mass spectrometry facilities with a staff of four spectroscopists, engineers and technicians. Mass spectrometry is the major function of the laboratory and it is important that the applicant have a strong background in modern mass spectrometric techniques and instrumentation. Ph.D. degree in chemistry, physics, or electrical engineering, or equivalent completion of education and experience is required. Salary depends on experience; minimum $40,000 per year. Position permanent with starting date January 1, 1987, although earlier starting dates could be negotiated. Applications should be made by 15 March 1987 to: Professor J. Jonas, Director, School of Chemistry, University of Illinois, 505 South Mathews Avenue, Urbana, IL 61801; Telephone: 217-333-0710; three letters of recommendation to: J.O. #6030087. Job Location: College Park, MD.

CHEVRON CHEMICAL COMPANY ORTHO AG CHEM DIVISION RESEARCH BIOCHEMIST Applicants should have a Ph.D. in biochemistry, substantial knowledge and experience in enzymology and molecular biology, and a small amount of experience in the design of selective enzyme inhibitors. They will work closely with a group of synthesis chemists and collaborate in the selection of suitable xenobiotic targets. Research will involve investigation of enzyme/receptor activities, and identification of biochemical processes that will lead to the identification and development of novel pesticide compounds. A strong chemistry background is required, and knowledge of plant, fungal or mammalian systems is desirable. Interested individuals should send their resume to: Chevron Chemical Company Mr. S. K. Fortune Supervisor, Human Resources P.O. Box 4010 Richmond, CA 94804-0010 An Equal Opportunity Employer.

RESEARCH IMMUNOLOGIST Research immunologist sought by Transplantation Unit Laboratories. Applicant should have Ph.D., M.D., or equivalent clinical experience. Experience in experimental immunology as related to transplantation. Appointment as assistant professor at Harvard Medical School probably appropriate. Successful candidate will conduct independent research program and some teaching along with collaborative work as desired. Salary appropriate: Women and minorities encouraged to apply. Applications to: Henry J. Winn, Ph.D., Transplantation Unit, Massachusetts General Hospital, Boston, MA 02114 by 13 March 1987.

RESEARCH SCIENTIST The New Jersey Department of Environmental Protection, Office of Science and Research has a variety of positions available within its Environmental Health and Environmental Research Programs. Professionals with graduate degree and relevant experience will be considered in the following disciplines: toxicology, epidemiology, chemical industrial process engineering, environmental policy, journalism, education, risk communication, risk assessment, exposure assessment; genetic toxicology; analytical chemistry; environmental fate modelers; biostatisticians; fluid dynamics; chemical oceanography; technical writing; scientific researchlibrarian. Positions offer competitive salary, comprehensive benefits package, and excellent growth opportunity. Submit resume indicating field of interest and salary history to: New Jersey Department of Environmental Protection Office of Science and Research Henry Garie CN-409 Trenton, N J 08625 An Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST—Federal Service. The Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, is seeking a research scientist, Ph.D. (or M.D.) level, to participate as a member of a multidisciplinary team conducting research in the area of combustion. Research will involve investigation of shock front structure, combustion stability, and wall cooling. Experience in combustion stability and chemical kinetics is desirable. Experience in experimental research on chemical kinetics is required. Submit curriculum vitae and names of three references to: C. Swift, SGK-346, Jet Propulsion Laboratory, Code 683, Pasadena, CA 91109. An Equal Opportunity Employer.

DIABETES AND CARDIOVASCULAR DISEASE—The Lankenau Medical Research Center, jointly with the Department of Biochemistry and Biophysics and the Diabetes Center of Philadelphia (both affiliated with the University of Pennsylvania), seeks a research scientist with an M.D. or a Ph.D. degree to conduct research in cellular metabolism with emphasis in diabetes and cardiovascular disease. The candidate should have an independent funded research program and must be willing to interact with staff scientists of both institutions. Modern laboratory facilities include new light and electron microscopes, and supplies and personnel work will be provided by the Lankenau Medical Research Center. Participation in graduate and postgraduate education programs is possible. Applicants should submit their curriculum vitae and the names of three references to: Michael S. Connor, Assistant Director, Lankenau Medical Research Center, Lancaster Avenue West of City Line, Philadelphia, PA 19151. Equal Opportunity Employer.

RESEARCH SCIENTIST—the Graduate School and University Center of the City University of New York, 33 West 42nd Street, New York, NY 10036, is seeking an independent investigator with the above mentioned academic and experience background. Candidates should have a record of competitive publications and be capable of independent research in areas of current interest to the following research groups: (1) M.-T. Handschumacher, Research Associate Professor, Department of Biology, C. N. 127, 33 West 42nd Street, New York, NY 10036; and (2) T. A. Brattkat, Research Associate Professor, Department of Biology, C. N. 127, 33 West 42nd Street, New York, NY 10036. Requests for research support are strongly encouraged. Applications should include a statement of research interests and goals, and a curriculum vitae and three letters of recommendation. Send applications to: The Search Committee, Graduate School and University Center, C. N. 127, 33 West 42nd Street, New York, NY 10036. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

SOMATOGEN—Research in endocrinology, immunology, reproductive biology, metabolism and chemistry is conducted at Somatogen, a biotechnology research and development company. Positions are available for scientists with PhD's and Masters degrees in any of the above fields. The research scientist will be responsible for conducting experiments in one of the above areas. He/she will participate in project teams that will develop new products for the company. Applicants must be capable of working independently and as part of a team. Responsibilities include design and execution of experiments, data analysis, report writing, and preparation of oral and written presentations. The positions require a flexible attitude, the ability to work under stress, and an eagerness to learn new scientific techniques. The research scientist will also be expected to participate in scientific meetings and publish results in peer reviewed journals. Interested candidates should submit their curriculum vitae to: Molecular Immunology, Somatogen, Inc., 299 Park Avenue, Suite 600, New York, NY 10017. An Equal Opportunity Employer.

UNIVERSITY OF MICHIGAN MEDICAL CENTER The Department of Surgery is seeking candidates for several tenure-track openings and two fellow positions. Academic rank will be determined by the applicant's experience and qualifications. All positions require completion of residency training and eligibility, demonstrated skills as a clinical surgeon, prior related research, teaching and administrative experience, and interest in an academic career. Responsibilities include teaching at all levels, supervision of house staff, research and administration. Emergency Services Three Instructor/Assistant Professor level openings with specialties in surgery, internal medicine, and pediatrics. General Surgery Fellow position: Transplant Surgery—Two-year appointment at the Instructor/Assistant Professor level. Position permanent with starting date January 1, 1987, although earlier starting dates could be negotiated. Applications should be made by 15 March 1987 to: Professor J. Jonas, Director, School of Chemistry, University of Illinois, 505 South Mathews Avenue, Urbana, IL 61801; Telephone: 217-333-0710; three letters of recommendation to: J.O. #6030087. Job Location: College Park, MD.
MOLECULAR VIROLOGIST

At CETUS Corporation, we are committed to maintaining our leading role in the research and development of biotechnology-based health care products.

We are currently seeking a scientist to take part in the development of recombinant viruses for veterinary vaccine uses. The position provides the opportunity to investigate the molecular biology of non-human herpesviruses, with the ultimate goal of developing animal vaccine products.

Requirements for this position include experience in molecular virology and recombinant DNA technology. A background in herpesvirus research is preferred. Candidates may have either recently completed a Ph.D. program, or have one to three years of post-doctoral experience.

Please send your resume in confidence to:

CETUS CORPORATION
Box JNS
1400 Fifty-third Street
Emeryville, CA 94608
E/O/E

Ph.D.
HEMOGLOBIN CHEMIST

As a $3.8 billion worldwide leader in the manufacture of sophisticated healthcare products, Abbott Laboratories has recently been cited by Dun's Magazine as one of the 5 best managed companies for 1986. This management strength plus aggressive research efforts creates an outstanding environment for the Ph.D. Hemoglobin Chemist we currently seek.

Playing an important role in our ongoing research, the selected Ph.D. candidate should possess a minimum of 3-5 years research experience in blood chemistry and function, including work in the area of purification and functional assessment of hemoglobin molecules.

Headquartered in an attractive suburban community at highways I-94 and Illinois 137, Abbott offers an excellent salary and benefits package including profit sharing and stock retirement plan. For confidential consideration, please send your resume with salary history to: Stephanie Mondello/Corporate Placement, Dept. SM-2/27. Abbott is an Affirmative Action Employer.

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Manager,
Biological Resources

Stauffer Chemical Company, a subsidiary of Cheesbrough-Pond's Inc., has an opening for a Manager, Biological Resources at its Environmental Health Center in Farmington, CT. This key position involves responsibility for the operation of animal care facilities and the necropsy, histology and clinical chemistry laboratories in support of product safety testing.

Applicants should have a B.S. or M.S. in an appropriate discipline, or a D.V.M. and at least three years' experience in laboratory or animal facility management, plus at least eight years of related technical experience. Demonstrated interpersonal skills and the ability to work effectively with professionals trained in scientific and medical disciplines are essential.

Stauffer offers ongoing growth opportunities, excellent salaries, and an attractive package of paid company benefits. The Stauffer Environmental Health Center is adjacent to The University of Connecticut Health Center and is located in one of the state's most attractive, semi-rural towns. To apply, please send your resume, a brief description of your experience, and salary requirements to: Mrs. P. Frutchey, STAUFFER CHEMICAL COMPANY, 400 Farmington Avenue, Farmington, CT 06032. We are an Equal Opportunity Employer M/F.

Stauffer Chemical Company
SUBSIDIARY OF Cheesbrough-Pond's Inc.

SR. SCIENTIST
NEUROPHARMACOLOGY

The Sterling Research Group, a division of Sterling Drug Inc., announces an opening for a senior level scientist in its Pharmacology Department.

The successful candidate should have a Ph.D. in Pharmacology with a minimum of 1-2 years postdoctoral experience in neuropharmacology, neuroscience, neurobiology or related discipline. This position will involve working with a multidisciplinary group developing novel treatments for CNS-related diseases. Experience in cellular and subcellular biochemical techniques for studying nerve function is desirable. Demonstrated oral and written communication skills are essential.

We offer an attractive salary and benefits package with the opportunity for professional growth. The Institute is located near Albany, New York, which is a center for summer and winter recreational activities.

Please send curriculum vitae including salary requirements in confidence to:

Ms. Randy E. Goldfischer
Employee Relations Administrator

STERLING - WINTHROP RESEARCH INSTITUTE

Sterling Research Group
A Division Sterling Drug Inc.
Columbia Turnpike, Rensselaer, NY 12144
Equal Opportunity Employer M/F/H/V
STAFF CHEMIST—Develop inorganic analytical methods, and analyze elements in biological, waste and environmental samples, using inductively coupled plasma spectroscopy and other spectroscopic techniques. Train technicians and other personnel in the use of these instruments. Manage the inorganic laboratory facilities. Write technical operating procedures for analytical methods and be responsible for analytical quality control and quality assurance, and so forth. Must have a Ph.D. degree in chemistry. Must have 5 years of experience in job offered or 5 years of experience as its equivalent. Must have had at least 5 years' experience as a manager in a position involving the supervision of analysts measuring trace elements. Forty hours per week; salary $30,000 per year. Applicants send resume to:

William Reynolds
Tennessee Department of Employment Security
4/5 Oak Ridge Twike
P.O. Box 3514
Oak Ridge, TN 37831-3514

The Department of Chemistry, University of Toronto intends to make three tenure-track appointments in experimental physical chemistry within the next few years. One of the current positions can be filled as early as 1 July 1987. In anticipation of the other appointments the Department also invites applicants for two NSERC University Research Fellowships (URF) to begin 1 July 1988. Applicants must have a strong academic background and an excellent research record in modern experimental physical chemistry. We would particularly welcome applicants whose research interests are in the biophysical area. The successful candidates for all three positions are required to have a Ph.D. and will be expected to conduct an active and highly innovative research programme and to teach at both the undergraduate and graduate level. URF holders must be Canadian citizens or permanent residents. Applications should be submitted by 15 May 1987. Applicants should provide a curriculum vitae and an outline of their proposed research, and should arrange to have three letters of recommendation sent on their behalf as soon as possible to:

Professor M. A. Winnik
Chairman, Search Committee
Department of Chemistry
University of Toronto
80 St. George Street
Toronto, Ontario M5S 1A1

CONFERENCES

THE ETIOLOGY OF PARKINSON'S DISEASE

A CONFERENCE on the etiology and hypotheses of the cause of the disease will be presented in Rudolph Light Hall on the Vanderbilt University Campus on 18 to 20 June 1988.

For information, contact: Monica Lambert, Department of Continuing Medical Education, Vanderbilt University School of Medicine, Nashville, TN 37232, or telephone 615-322-4050.

DETERMINATION OF SEX IN HUMANS: A TECHNICAL CONFERENCE

ON SEX DECIDING DETERMINATION

BY LAWRENCE J. MENTHIS, M.D.

4 TO 8 MAY 1987

Molecular Genetics of Sex Determination, Sex-specific DNA Probes, Diagnostic and Research Applications of Sex Determination, Abnormal Sex Determination, Clinical Syndromes, Genetics and Agriculture. Sponsored by Spring Creek Ranch, National Foundation March of Dimes, The University of Tennessee, Memphis.


NATO ADVANCED STUDY INSTITUTE TERRITORIAL WATER POLLUTION AND ITS BIOLOGICAL EFFECTS 11 TO 25 OCTOBER 1987

A comprehensive series of lectures presenting an integrated intensive course on the near sea radiation environment with emphasis on pollution. Topic areas will include: radiobiology, dosimetry and radiometrical physics. Limited number of contributed papers will be considered for presentation. Participant support for travel and living expenses will be available. Further information contact:

Dr. P. McCormack, M.D., Ph.D.
Division of Life Sciences (CODE EB)
NASA, Headquarters
Washington, DC 20546 U.S.A.

Telephone 202-358-6543

Deadline 15 April 1987

GRADUATE STUDIES

GRADUATE STUDIES: University of Nevada Graduate Training Program in Pharmacology (1987 to 1988 Academic Year) is accepting applications for predoctoral study and research in areas of neuropharmacology and radiobiology. (with emphasis on regulation of vascular and airway smooth muscle and cardiac muscle) and neuromodulatory toxicokinetics. Position is open to highly qualified individuals with bachelor degree in the sciences. For more information contact: Dr. George Bier, Director, Department of Pharmacology, University of Nevada School of Medicine, Reno, NV 89557-0046. Affective Action/Equal Opportunity Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP JULY 1988—Pathologist or other biomedical scientist (M.D., D.D.S., D.V.M., Ph.D.) for research at the Armed Forces Institute of Pathology beginning July 1988. Excellent research training and educational opportunity position; women and minorities encouraged. Send curriculum vitae and brief statement of interests and qualifications to Box 20, SCIENCE, by 1 September 1987.

POSTDOCTORAL FELLOWSHIPS MEDICAL GENETICS—Postdoctoral fellowships for individuals with a M.D., Ph.D. or D.D.S. in medical genetics. Position is open to individuals with an interest in the molecular aspects of human gene function. Position is available immediately. Send curriculum vitae, references and a statement of research interests to Dr. H. J. Ziff, Department of Human Genetics, The Hospital for Special Surgery, New York, NY 10021.

POSTDOCTORAL FELLOWSHIPS—The Lineberger Cancer Research Center of the University of North Carolina (UNC) at Chapel Hill will have openings in 1988 to 1989 for persons completing graduate studies to train with highly qualified investigators in molecularly oriented research in virology, chemical carcinogenesis, biochemical pharmacology, cell biology and immunology. Training includes areas such as: regulation of gene expression, DNA replication, mutagenesis, cellular and molecular enzymology, control of cellular proliferation, growth factors, immunogenetics, protein phosphorylation, etc. Selected areas and combined programs utilizing a broad range of contemporary technology. Unique resources and core facilities housed in the Lineberger Center and its associated interdisciplinary orientation enhance training. Candidates must be U.S. citizens or permanent residents. Write for brochure and application. Deadline 1 September 1987. Affective Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS IN CANCER EPIDEMIOLOGY

The Preventive Medicine Institute/Strang Clinic, a cancer research institute, seeks a postdoctoral fellow to participate in ongoing studies in colon cancer using clinical and biochemical databases. Possible joint appointments in the Lineberger Cancer Center or Cold Spring Harbor Laboratories. Prefer M.D. or Ph.D. in epidemiology, interest and experience in cancer control. Demonstrated ability to conduct research is required. Send curriculum vitae and bibliography to: The Preventive Medicine Institute/ Strang Clinic 55 East 34 Street New York, NY 10016

POSTDOCTORAL FELLOWSHIPS AVAILABLE

FELLOWSHIPS IN NEUROENDOCRINOLOGY

IN THE LABORATORY OF NEUROENDOCRINOLOGY, UCLA BRAIN RESEARCH INSTITUTE

Several NIH Training Grant positions at both levels are available prior to 1 July 1987. Training is offered by faculty from the Departments of Anatomy (J. deVellis, R. Gorski, J. Lu, P. Micevych, A. Taylor, E. Zimmerman), Pharmacology (B. George), Psychology (A. Arnold) or Neurosciences (all of which are areas of sexual differentiation of the CNS, neuropeptides, molecular neurobiology, drugs of abuse, animal behavior and aging. For further information contact: Roger A. Gorski, Department of Anatomy, UCLA School of Medicine, Los Angeles, CA 90024. Telephone: 213-825-2123.

POSTDOCTORAL FELLOWSHIP

Available immediately for analysis of polynucleotide dependence in Escherichia coli. Detailed genetic and physiological approaches to determine DNA sequences are sensitive to very low polynucleotide levels. Send curriculum vitae with names of references to: Brooks Low, Radiobiology Laboratories, Yale Medical School, 333 Cedar Street, New Haven, CT 06510.
Scientist
MS/BS in Biochemistry, Immunochismistry, Microbiology or related field with 2-5 years of professional experience required.

—Applied & External Research
Conduct feasibility studies related to the application of new technologies to diagnostic medicine, especially in the areas of microbiology, immunology, coagulation and clinical chemistry. Openings exist for:

St. Research Associate
PhD in Physics or Engineering plus 6-10 years of experience in opto-mechanical instrumentation design and development are required.

Research Associate
PhD in immunochemistry, immunology or biochemistry with 5-6 years of non-radiometric immunoassay research experience required.

Sr. Scientist/Scientist
PhD in Organic Chemistry with 1-4 years experience in synthesis of unique compounds required.

Sr. Scientist/Scientist
PhD in Analytical Chemistry with 1-4 years research experience in development/application of new analytical methods required.

—Clinical Services
Responsible for the design, management and reporting of data concerning clinical field trials of new in-vitro diagnostic products. Openings exist for:

St. Scientist
PhD/MS in Clinical Chemistry, Microbiology, Biochemistry, Physiology or related field and 7-10 years of experience in clinical laboratory diagnostic products required.

Our corporate location is adjacent to Research Triangle Park, North Carolina, a growing, high technology and low unemployment area that is near three reputable universities and offers its inhabitants a nationally recognized quality of life. Would you like to explore the unique opportunities that emanate from being part of a start-up team? So, then look to the future... it begins with us.

If your educational and professional qualifications have prepared you for outstanding achievements in a world class research environment, we encourage you to apply for Opportunities That Count. Please send your resume to: Organon Teknika Corporation, P.O. Box 13867, Dept. DB, Research Triangle Park, North Carolina 27709. No recruiters, agencies, or phone calls please.

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To Freeze Fracture Etch: Cryofract 190

Reichert-Jung's Cryofract 190 is an incomparable freeze fracture etch instrument... fast, easy to use, and most importantly, it delivers the highest resolution replicas consistently and reliability.

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Using liquid Nitrogen or liquid Helium as the coolant, you can fracture specimens at temperatures down to 5 K (-268 °C) in a clean ultra-high vacuum of 10^-6 torr. Accurate temperature control allows user to deep etch with reproducibility. Water-cooled electron beam guns facilitate high-resolution replicas shadowed with either Pt/C or pure Ta.

The Cryofract 190 is sophisticated enough for advanced research, yet versatile enough for quick and easy routine work. By introducing specimens frost-free through an air lock, a freeze fracture run can be completed in 10 minutes. A versatile assortment of specimen holders and external control of the tilting stage permit rotary or unidirectional shadowing at any angle. Furthermore, gun electrodes can be reset externally so as many as 15 runs a day can be completed without venting the chamber. After venting, the chamber and operating ion pump are baked to 180 °C to insure a clean vacuum.

The Cryofract 190 is compact, quiet, self-cleaning and state-of-the-art. The Cryofract 190 is manufactured by Reichert-Jung for literature circle reader service number 138 - Inventor J. Escag.

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