

Personnel Placement

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Positions Wanted: 40¢ per word; \$4 extra for use of box number. \$10 minimum charge, per insertion. Prepayment required. This rate is available only to individuals; personnel agencies, companies, colleges, and universities take display rate for all advertising.

Display (Positions Open, Market Place, and so forth): \$5.80 per millimeter; \$145 minimum charge, per insertion (covers 25 millimeters on single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads under 103 millimeters (4 inches). No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information required for all other ads.

SCIENCE is published weekly, on Friday. Copy must be received in writing by Wednesday, 3½ weeks before Friday issue date required. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005
Telephone: 202-467-4456

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
1515 Broadway
New York, N.Y. 10036
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Biochemist, Ph.D. 1962 (chemistry). Member of A.I.N. Twelve years of research experience: atherosclerosis, cholesterol/lipoprotein metabolism studies in primates and rodents; inborn errors of amino acid metabolism. Thirty publications. Interested in joining a group in a medical/osteopathic school studying any aspect of atherosclerosis, lipid/lipoprotein metabolism, or parental nutrition plus opportunity to utilize extensive educational expertise. Ten years of biochemistry teaching experience: veterinary medicine (assistant professor), dental medicine, pharmacy, nursing, medical technology. Excellent rapport with students. Curriculum vitae on request. Dr. I. L. Shapiro, 10 Dickson Road, Marlboro, New Jersey 17746. X

Biochemist—Outstanding performance and proven success record: industrial research and development, marketing, research management, postdoctoral, microbiology, clinical laboratory experience. Ph.D. 1968. Publications. Industrial position preferred. Box 313, SCIENCE. X

Biochemist, Ph.D. Interested in platelet biochemistry. Experience: prostaglandins, cyclic nucleotides, affinity techniques. Publications, memberships, grant. Seeks relocation. Box 308, SCIENCE. X

Clinical Biochemist, M.T., Ph.D. specialist in chemistry (ASCP), clinical chemist (NRCC), AACC. Broad experience in clinical chemistry, RIA, radio-receptor assay, automation, method development. Publications. Seeks hospital/medical school position. Box 311, SCIENCE. X

Director/Administrator, Ph.D. Interested in a position which will utilize a basic science and administrative background to create an environment where skilled individuals can excel. Research background in cell biology and biochemical genetics with publications in major journals and review. Founder of firm engaged in development of scientific instruments. Licensing of business prompts an interest in providing scientific and organizational skills to foundation, institute, society, or university in New York City area. Curriculum vitae available from Box 309, SCIENCE. X

Science Writer/Editor, primarily biomedical. M.S. biology. Newspaper, teaching background. Seeks meaningful role in science communication. Box 312, SCIENCE. X

POSITIONS WANTED

Ph.D. Free-lance Editor, chemistry and other sciences. Extensive experience, major contributions to the research literature. Box 303, SCIENCE. X

Vertebrate Biologist/Ecologist, Ph.D. Two years of teaching experience in vertebrate biology, general ecology, evolution, population biology, field natural history, human ecology. Will also teach general biology, zoology, botany, mammalogy, ornithology. Research interests in population biology and community relations of microtine rodents. Seeks teaching, research, consulting position in Pacific Northwest. Box 310, SCIENCE. 10/6, 13

POSITIONS OPEN

DEPARTMENT OF ANATOMY invites applications for a tenure-track position as **ASSISTANT or ASSOCIATE PROFESSOR** to begin September 1979. The individual must have teaching experience in gross anatomy. Preference will be given to candidates having strong postdoctoral research experience in either neurobiology or cell biology and who have already developed a solid research program at the assistant professorial rank. Salary range from \$25,000 to \$35,000, depending upon level of experience and productivity. Send curriculum vitae, three references, and statement of career goals to: Dr. Ronald G. Clark, Chairman, Department of Anatomy, University of Miami School of Medicine, R124 P.O. Box 016960, Miami, Fla. 33101. An Equal Opportunity/Affirmative Action Employer.

ANIMAL PHYSIOLOGY

Two-year renewable appointment for person actively engaged in physiological research. Responsibilities include two one-term, laboratory courses in animal physiology and morphology; an advanced seminar (as enrollment permits), a winter term course in an area of choice, and direction of undergraduate and M.S. research. Appointment will be made at instructor or assistant professor level; preference given to applicants with no more than 2 years of full-time teaching experience. Ph.D. or ABD required. Position begins 1 September 1979; deadline for completed application: 31 October 1978. Send résumé, statement of teaching and research interests, all undergraduate and graduate transcripts, and three recent letters of recommendation to: Christopher Waters, Chairman, Department of Biology, Middlebury College, Middlebury, Vermont 05753. An Equal Opportunity Employer.

ASSISTANT PROFESSOR. Applications are invited for a position as assistant professor starting July or September 1979. We seek an experimental physical chemist who will establish a vigorous, productive research program and who will excel at teaching. The new appointee will be expected to contribute to the teaching of general chemistry as well as physical chemistry. Applicants should submit résumé, transcripts, a brief description of one or more research projects he or she would plan to undertake at Dartmouth, and three letters of recommendation to: Professor D. M. Lemal, Chairman, Department of Chemistry, Dartmouth College, Hanover, New Hampshire 03755. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. Small, Quaker, liberal arts college seeks Ph.D. to teach courses in following areas: genetics, microbiology, biochemistry, and developmental and basic biology to students with wide range of abilities. Begin 2 January 1979. Send résumé and supporting materials, including three letters of reference, by 25 October to: T. K. Wood, Chairman, Biology Department, Wilmington College, Wilmington, Ohio 45177. An Equal Opportunity Employer.

ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES (repeat announcement). Open positions for scientists with promise of creative and dynamic research programs in: (i) behavioral and neurobiology, (ii) cell biology, and (iii) tumor virology or microbiology. Post-Ph.D. experience and quality of research will be prime considerations. Appointee will be expected to teach standard course and to develop specialty course for advanced undergraduate and graduate students. For someone who may be especially qualified, the rank of associate professor may be considered. Applications from women and members of minority groups will be particularly welcome. Send résumé to: A. Eisenstark, Director, Division of Biological Sciences, Tucker Hall, University of Missouri-Columbia, Columbia, Missouri 65211.

POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Anatomy and the Playfair Neuroscience Research Unit of the University of Toronto invite applications for a faculty position in the field of **neuromorphology**. Research interest in the functional morphology of identified central nerve cells preferred, particularly in mammalian motor systems. The appointee will be required to maintain an independent research program within a multidisciplinary neuroscience research unit, train postgraduate students, and participate in limited undergraduate teaching. Candidates should hold a doctoral degree (M.D. or Ph.D.), have postdoctoral training, and have shown the excellence and originality in research expected of a potential leader in his or her field. Salary dependent on qualifications. Position available after 1 March 1979; applications close 30 November 1978. Applicants should send curriculum vitae, including bibliography, a summary of research plans, and the names and addresses of three references, to:

Chairman, Neuroscience Search Committee
University of Toronto
The Toronto Western Hospital
399 Bathurst Street
Room 903, 9 North Pavilion
Toronto, Ontario, Canada M5T 2S8

ASSISTANT PROFESSOR

The Department of Pharmacology and the Playfair Neuroscience Research Unit of the University of Toronto invite applications for a faculty position in the field of **pharmacology**. Research interest in mammalian central synaptic transmission preferred. The appointee will be required to maintain an independent research program within a multidisciplinary neuroscience research unit, train postgraduate students, and participate in limited undergraduate teaching. Candidates should hold a doctoral degree (M.D. or Ph.D.), have postdoctoral training, and have shown the excellence and originality in research expected of a potential leader in his or her field. Salary dependent on qualifications. Position available after 1 March 1979; applications close 30 November 1978. Applicants should send curriculum vitae, including bibliography, a summary of research plans, and the names and addresses of three references, to:

Chairman, Neuroscience Search Committee
University of Toronto
The Toronto Western Hospital
399 Bathurst Street
Room 903, 9 North Pavilion
Toronto, Ontario, Canada M5T 2S8

ASSISTANT PROFESSOR

The Department of Physiology and the Playfair Neuroscience Research Unit of the University of Toronto invite applications for a faculty position in the field of **neurophysiology**. Research interest in the central control of eye and head movements preferred. The appointee will be required to maintain an independent research program within a multidisciplinary neuroscience research unit, train postgraduate students, and participate in limited undergraduate teaching. Candidates should hold a doctoral degree (M.D. or Ph.D.), have postdoctoral training, and have shown the excellence and originality in research expected of a potential leader in his or her field. Salary dependent on qualifications. Position available after 1 March 1979; applications close 30 November 1978. Applicants should send curriculum vitae, including bibliography, a summary of research plans, and the names and addresses of three references, to:

Chairman, Neuroscience Search Committee
University of Toronto
The Toronto Western Hospital
399 Bathurst Street
Room 903, 9 North Pavilion
Toronto, Ontario, Canada M5T 2S8

ASSISTANT PROFESSOR to teach undergraduate courses in **endocrinology/histology**, and to develop graduate courses in the area of the applicant's research interests. The applicant is expected to be actively involved in research. Tenure-track; 10-month salary: \$14,500 to \$16,000, depending on experience. Please submit a résumé, graduate and undergraduate transcripts, and three letters of recommendation. Application must be complete by 1 January 1979 to insure consideration. Send to: S. O. Schiff, Chairman, Biological Sciences, The George Washington University, 2029 G Street, NW, Washington, D.C. 20052. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

McGILL UNIVERSITY BIOCHEMISTRY DEPARTMENT

Staff position: ASSISTANT PROFESSOR to teach graduate and undergraduate courses, supervise students, and maintain an active independent research program. Preference will be given in the general area of enzyme regulation in mammalian cells. Candidates should have at least 2 years of postdoctoral experience. Curriculum vitae, including the names of at least three persons who can be contacted for letters of reference, should be sent to:

Dr. W. Mushynski, Search Committee
Department of Biochemistry
McIntyre Medical Sciences Building
McGill University
3655 Drummond Street
Montreal, Quebec, Canada H3G 1Y6

ASSISTANT PROFESSOR OF BOTANY AND QUATERNARY STUDIES

Applications are invited for a tenure-track research (70 percent) and teaching (30 percent) position in plant ecology and quaternary studies. Responsibilities include research in paleoecology and teaching courses in ecology and quaternary studies. Salary is negotiable. Position available 1 January 1979. Application deadline is 30 October 1978. Send complete curriculum vitae, reprints of published work, and names of three references to:

Dr. Douglas A. Gellinas
Chairman, Botany/Plant Pathology
Deering Hall
University of Maine
Orono, Maine 04473

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

ASSISTANT PROFESSOR— NEUROPHYSIOLOGY

The Department of Anatomy at Wayne State University School of Medicine invites applications for a tenure-track position at the assistant professorial level. The highly qualified individual should have interest in central nervous system neurophysiology combined with neuroanatomical and/or neurochemical approaches. Excellent facilities and support are available. Teaching responsibilities will be in medical student gross anatomy and neuroanatomy and graduate student neuroscience courses. Applicants should send curriculum vitae, brief summary of research interests, and the names and addresses of three references who may be contacted to: Thomas V. Getchell, Ph.D., Morin Memorial Laboratory, Department of Anatomy, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, Michigan 48201.

ASSISTANT PROFESSOR OF PHYSICS

There is a vacancy for a physicist at the assistant professor level within the Division of Sciences at the Saint John campus of the University of New Brunswick, effective 1 January 1979, or earlier if possible.

Applicants should have a Ph.D. in physics, and the successful candidate will be expected to teach at the undergraduate level and to participate actively in the department's program of research in low-level environmental gamma spectrometry.

Applications (with curriculum vitae) should be sent, as soon as possible, to: Dr. R. B. Kelly, Chairman, Division of Sciences, University of New Brunswick, P.O. Box 5050, Saint John, New Brunswick, Canada E2L 4L5. Applicants should arrange for three letters of reference to be sent directly to Dr. Kelly without delay.

THE UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF ZOOLOGY

Applications are invited for the position of ASSISTANT PROFESSOR in the Department of Zoology, University of British Columbia. Qualifications include a Ph.D. in biology or a related field, with a demonstrated ability to teach introductory biometrics. The successful applicant will be expected to develop a strong experimental research program. Upper-level undergraduate teaching and graduate student teaching and supervision are required. Salary will be commensurate with experience and duties. Curriculum vitae and the names of three referees should be submitted to: Dr. G. G. E. Scudder, Head, Department of Zoology, University of British Columbia, 2075 Westbrook Mall, Vancouver, British Columbia, Canada V6T 1W5. The expected date of appointment is 1 July 1979, subject to budgetary approval. Closing date for application is when position is filled.

DIRECTOR Center for Educational Affairs

ARGONNE NATIONAL LABORATORY

Argonne National Laboratory is accepting applications for the position of Director of the Center for Educational Affairs, a Laboratory Division serving as the major communications link between the academic community and Argonne, from the point of view of education and training. The Center assists universities with the development of manpower important to Department of Energy missions and aids in the promotion of educationally-supportive research participation involving university and Argonne scientists and engineers. The Center also serves as the arm for international training activities at Argonne supported by the Department of Energy.

The Director is responsible for developing the cadre of leadership in the Center, for maintaining and enhancing the quality and effectiveness of the staff of the Center and for aiding in the development and administration of policies in education and training appropriate to the Laboratory's role and organizations setting. In addition, the Director discharges on behalf of the Laboratory other advisory and administrative duties dealing with education, manpower development and university relations.

The major programs currently administered by the Center are:

1. Faculty research-participation program.
2. Graduate and undergraduate student programs for thesis and non-thesis research; internships, practice schools, research tutorials and various training activities.
3. Conferences, workshops, and tutorial institutes for faculty and students in association with Argonne personnel.
4. Supply of information on, and access to, the Laboratory, and appropriate general service to the academic community.
5. Training in energy project planning for selected foreign nationals.

The respondent should have substantial recent on-campus academic experience, at least at the Department Chairman level. It is expected that the respondent will have a strong background in the sciences or engineering and have demonstrated significant leadership ability. The new Director should be prepared to take up this post by June 1979.

Please respond by sending resume and salary history to:
Ronald A. Johns, Argonne National Laboratory, 9700 So. Cass Avenue,
Argonne, IL 60439.



**ARGONNE
NATIONAL LABORATORY**

An equal opportunity employer, m/f



National Research Council Canada
Conseil national de recherches Canada

1979 RESEARCH ASSOCIATESHIPS

For research in science and engineering in the following laboratories of the **NATIONAL RESEARCH COUNCIL OF CANADA**:

Atlantic Regional Laboratory
Division of Biological Sciences
Division of Building Research
Division of Chemistry
Division of Electrical Engineering
Herzberg Institute of Astrophysics
Division of Mechanical Engineering
National Aeronautical Establishment
Division of Physics
Prairie Regional Laboratory

Applicants should possess at least a Ph.D. in natural science or a master's degree in an engineering field or expect to obtain the degree before taking up the award.

Associateships are open to nationals of all countries although preference will be given to Canadians.

Research associates will be offered appointments to the staff of the National Research Council on a term basis and will be offered salaries and benefits currently available to members of the continuing staff.

The initial appointment will be for a 1-year term and may be renewed, subject to the associate's performance and subject to the requirements of the division. Renewals are considered annually. The term as a research associate will vary by division but will not exceed 5 years.

An allowance will be provided towards the cost of travel.

Applications may be obtained from: **Research Associates Office, National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6.**

Closing date: 15 January 1979



SENIOR STAFF TOXICOLOGIST

Standard Oil Company (Indiana) is seeking an individual with a PhD in toxicology, pharmacology, or related sciences for the position of Senior Staff Toxicologist to participate in an active program in toxicology through interaction with R&D groups, regulatory agencies, contract laboratories, and trade associations. We offer an excellent salary commensurate with experience plus an extensive benefits package.

If a career in this expanding program interests you, send a resume in confidence to:

Ms. Lucy Lardner



STANDARD OIL CO.
(Indiana)
200 E. Randolph Dr.
MC 0302
Chicago, IL 60601

An Equal Opportunity Employer M/F

POSITIONS OPEN

ASSISTANT RESEARCH BIOCHEMIST DEPARTMENT OF SURGERY

Ph.D. in biochemistry or chemistry and 1 year or more of postdoctoral research experience to participate in large research program in gastrointestinal physiology and isolation of peptide hormones. Expertise in peptide chemistry and techniques of isolation and identification of new hormones required. Send curriculum vitae, bibliography, and names of three references to:

Professor Marshall J. Orloff, Chairman
Department of Surgery
University of California, San Diego, Medical Center
225 Dickinson Street
San Diego, Calif. 92103

Salary related to rank and step of appointment within established salary schedule of the university.

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

BIOCHEMICAL ENGINEER

With M.S. degree in biochemical engineering. Immediate opening in the Princeton Research Center. Specific experience with fermentations and familiarity with biochemistry and microbiology desirable. Salary open. Outstanding benefits program. Send résumé to: **A. Bruchini, AMERICAN CAN COMPANY, P.O. Box 50, Princeton, New Jersey 08540.** Résumés accepted to 1 November 1978. *An Equal Opportunity Employer, M/F.*

BIOCHEMIST-ENDOCRINOLOGIST. Openings at junior or senior research associate and postdoctoral trainee levels. Salaries competitive. Positions open immediately but starting date negotiable. Problem areas include FSH/LH-gonadal receptor interactions, purification of receptor and related systems, mechanism of hormone action, and chemistry of gonadotropins. Send curriculum vitae and three letters of recommendation to: **Dr. Leo E. Reichert, Jr., Department of Biochemistry, Emory University School of Medicine, Atlanta, Georgia 30322.**

CELL BIOLOGISTS

The University of North Carolina at Chapel Hill invites applications for junior and senior faculty positions in the Laboratories for Cell Biology of the Department of Anatomy. Applicants must have postdoctoral research experience and goals in the areas of biology of cell surfaces, membranes, receptors, or cytoplasmic organelle systems. Teaching opportunities will be in graduate-level courses in areas of cell biology, medical histology, or human gross anatomy. Send curriculum vitae, a brief description of current research interests, and a list of three references or requests for additional information to: **Dr. Charles R. Hackenbrock, Chairman, Department of Anatomy, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514.**

An Equal Opportunity/Affirmative Action Employer

University of California, Los Angeles (UCLA), School of Medicine, seeks appropriate candidates for the **DELLA MARTIN CHAIR IN PSYCHIATRY**, newly endowed professorship for distinguished academic psychiatrist (English-speaking, eligible California licensure) committed to research especially on major mental illnesses of adolescents and young adults. *Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae, letter discussing career goals, and five references to:

Arnold B. Scheibel, M.D., Chairman
Della Martin Search Committee
760 Westwood Plaza
Los Angeles, California 90024

CHAIRPERSON Department of Biological Structure School of Medicine UNIVERSITY OF WASHINGTON

Applications for this position are invited from scholars committed to biological research and education in the health sciences. Established fields of investigation in the department relate to developmental biology, cell differentiation in the hemopoietic and immune systems, reproductive biology, neurobiology, ultrastructure, and x-ray crystallography. Departmental teaching responsibilities include gross, microscopic, neuro-, and developmental anatomy in a progressive medical and graduate educational program. Send curriculum vitae, bibliography, and three references by 30 November 1978 to: **Dr. F. G. Krebs, Chairman, Search Committee, Department of Pharmacology, SJ-30, School of Medicine, University of Washington, Seattle, Wash. 98195.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF BIOLOGY.

To provide leadership and coordination for six full-time faculty, several part-time positions, and one laboratory supervisor. The department has approximately 300 majors. Nearly 60 percent of them are concentrating in growing preprofessional allied health programs. Candidates must be committed to quality undergraduate teaching, independent research, and departmental honors study. Administrative experience is desired. Knowledge of extramural funding procedures is essential. Candidates must have the Ph.D. and a record of successful teaching and research. Rank is open. Salary is competitive. Please forward letter of application, résumé, and three letters of recommendation by 24 November to: **Dr. Dennis M. Travis, Dean, College of Arts and Sciences, Millikin University, Decatur, Ill. 62522.**

CHAIRPERSON, Department of Biology, Baylor University, Waco, Texas. Qualified persons with experience in teaching, administration, and research are invited to apply for the position of chairperson to begin fall 1979 or earlier. The department has 13 staff members, more than 125 senior majors, and 25 M.S. candidates. Send curriculum vitae and four letters of reference to: **Chairman, Search Committee, Baylor University, Waco, Texas 76703.** *An Equal Opportunity/Affirmative Action Employer.*

CHAIRPERSON, DEPARTMENT OF BOTANY

The Ohio State University invites qualified applicants to apply for the position of chairperson, Department of Botany. Applicant should have an earned doctorate, be an established scientist with an active research program in the plant sciences, and have demonstrable administrative ability. Send curriculum vitae, list of references, and other pertinent information to: **Dr. Michael L. Evans, Department of Botany, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210, before 1 December 1978.**

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. All persons, including women, members of minority groups, and the handicapped are invited to apply.

CHAIRPERSON, DEPARTMENT OF BIOLOGY.

St. Lawrence University is accepting applications and nominations for chairperson of the Department of Biology. Candidates should present a record of strong interest and achievement in both teaching and research and should be capable of assuming leadership in a department of nine or ten members. Interest and competence in administration are essential. Starting date: September 1979. Closing date for applications is 1 January 1979. Résumé and letters of recommendation should be sent to: **Dr. L. E. Bowers, Department of Biology, St. Lawrence University, Canton, New York 13617.** *An Equal Opportunity/Affirmative Action Employer.*

CHIEF, TOXIC HAZARDS SECTION

Connecticut State Department of Health. Will plan, organize, and administer a program to evaluate and control toxic hazards. Duties include directing the work of a staff of epidemiologists and others in the investigation of toxic hazard problems, conducting background research on standards of exposure to toxic hazards, and related work. Requires a Ph.D. in epidemiology or biologic science and 4 years of professional experience in a public health program including 2 years in a supervisory capacity or an equivalent combination. Salary range: \$18,452 to \$23,941.

Contact **John L. Lewis, M.D., M.P.H., Director, Preventable Disease Division, State Department of Health, 79 Elm Street, Hartford, Connecticut 06115.** Telephone: 203-566-4140.

An Affirmative Action Employer

ECONOMIST. The Environmental Defense Fund, Inc. (EDF), a tax-exempt public interest advocacy organization, seeks a Ph.D. economist with interest in water resources, transportation, and urban environmental problems. Position involves problem identification, research, and coordinated efforts with other technical staff and lawyers to effect solutions to public problems through litigation, administrative action, and public education. Submit résumé to: **James T. B. Tripp, EDF, 475 Park Avenue South, New York, New York 10016.**

ONE MEDICAL BIOCHEMIST AND ONE SYNTHETIC CHEMIST, both with Ph.D.'s, wanted by leading Japanese pharmaceutical company to work in their R & D institute in Japan. Top salary, plus housing. Three-year contract. Send résumé to: **IM-CA, 1111, TBR Building, 2-10-2, Nagata-cho, Chiyoda-ku, Tokyo, 100 JAPAN.**

SHORT COURSES in VACUUM SCIENCE and TECHNOLOGY

A four and a half day basic Vacuum Technology course and eleven specialized courses will be offered in conjunction with the 25th NATIONAL SYMPOSIUM AND VACUUM SHOW OF THE AMERICAN VACUUM SOCIETY, which will be held at the Fairmont Hotel in San Francisco, California, on November 27-December 1, 1978. These courses are intended for anyone working with, or interested in, vacuum science and technology, including scientists and engineers, laboratory technicians, production equipment operators, maintenance personnel and students. All courses will be taught by well qualified, experienced instructors.

The basic course, "VACUUM TECHNOLOGY", will cover vacuum technology from fundamental theory through state-of-the-art concepts.

The specialized courses will start from basics and cover theory, equipment, and applications. The courses to be offered will be for either one or two days and will include:

- SPUTTERING
- PARTIAL PRESSURE ANALYSIS
- LEAK DETECTION
- MICROCIRCUIT THIN FILM TECHNOLOGY
- SURFACE ANALYSIS (Two Days)
- FUNDAMENTALS OF EVAPORATION METHODS
- FREEZE DRYING
- APPLIED THIN FILM OPTICS
- CONTAMINATION CONTROL
- MECHANICAL PROPERTIES OF THIN FILMS
- CRYOPUMPING

A special feature for all course participants will be an Exhibitor's Program. Special demonstrations and discussions of specific Vacuum Show exhibitor's equipment of interest to course attendees will take place on Wednesday, November 29, 1978 from 8:30AM to 10:00AM at the site of the Vacuum Show in the Fairmont Hotel atop Nob Hill, San Francisco, California.

Course outlines and application forms may be obtained from Nancy Hammond, Executive Secretary, American Vacuum Society, Station J, 335 East 45th Street, New York, New York 10017.

For Further information, call Nancy Hammond at (212) 661-9404. Applications can be confirmed by phone and space will be held for 10 days. Applications and fees must be received by November 20, 1978.

MICROBIOLOGIST/ POST DOCTORAL

SmithKline Corporation,
a diversified multinational
pharmaceutical firm located in
Philadelphia, Pennsylvania, is seeking a PhD
Microbiologist for a post doctoral position at our
Upper Merion facility.

Candidates are required to have:

- Knowledge of clinical microbiology and experience with pathogenic bacteria both in vitro and in vivo.
- Knowledge of immunology and experience working with immunological procedures, e.g. preparation of monospecific antibody; testing of immunological reagents; isolation and preparation of immunogens from biological sources.
- A background in biochemistry and experience with tissue culture, radioisotopes and enzymology are highly desired.

The successful candidate will be expected to develop and perform experiments both in vitro and in vivo under guidance of a Senior Investigator. Experimental work will be directed toward development of a new approach to bacterial chemotherapy.

SmithKline offers an excellent compensation program. Please send resume and salary history to: Mr. W. G. Groves, SMITH KLINE & FRENCH LABORATORIES, a division of SmithKline Corporation, 1506 Spring Garden Street, P.O. Box 7929, Philadelphia, Pennsylvania 19101. We Are An Equal Opportunity Employer, Male/Female/Handicapped/Veteran.

SmithKline
Smith Kline & French Laboratories

worldwide opportunities in quality control



le controle de la qualite el control de calidad

This is your opportunity to join one of the world's most successful, most dynamic medical care corporations. The outstanding growth and expansion of our International Division have created openings in the Quality Control function for individuals at all levels of experience.

IF you are currently working or studying in the United States and wish to return to your home country...

IF you have a BS or advanced degree in Chemistry, Pharmacology, Biology, Engineering or a related discipline...

IF you have previous Quality Control experience in the pharmaceutical or any technical industry or you would like to begin a challenging career in this field...

IF you seek the potential to move into general management and would like the opportunity to participate in the design and start-up of a sophisticated hospital products operation...

THEN you may be interested in the positions available at our facilities in the following countries:

FRANCE

Qualified applicants must be French citizens capable of meeting French criteria to become a registered Pharmacist. You should also be bilingual (French and English) and willing to relocate to France. Experience is preferred but not essential. Supervisory responsibility is involved.

SPAIN

Openings are available at two of our facilities in Spain for individuals who are fully bilingual (Spanish and English) and willing to relocate. Supervisory responsibility is involved.

MEXICO

Supervisory Q.C. positions require Mexican citizens, with prior supervisory experience, willing to return to Mexico. We also have openings for degreed Microbiologists who have knowledge of sterility testing procedures and sterilization techniques.

IRELAND/UNITED KINGDOM

Several openings exist for individuals who have prior industrial experience, ideally in the pharmaceutical field, and knowledge of Irish or British GMP requirements. You should be capable of managing a professional staff.

We offer exceptional potential for career development. For consideration, please send a letter or resume in confidence to:

Sam Hines
Dept. 4



One Baxter Parkway
Deerfield, Ill. 60015

We are an Equal Opportunity Employer

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF PEDIATRICS

Applications are solicited for the position of chairperson of the Department of Pediatrics of The Medical College of Wisconsin and pediatrician in chief at Milwaukee Children's Hospital in Milwaukee, Wisconsin. We seek a candidate with the highest academic credentials and a master clinician, Board-certified in pediatrics with demonstrated skills of excellence, to provide leadership in administration, patient care, teaching, and research efforts for a vigorous multifaceted department of pediatrics. *The Medical College of Wisconsin and Milwaukee Children's Hospital are Equal Opportunity/Affirmative Action Employers; women and minorities are encouraged to apply.* This position is now available. Submit inquiries and curriculum vitae by 31 December 1978 to: **George B. Theil, M.D., Chairman of the Pediatric Search Committee, St. Luke's Hospital, 2900 West Oklahoma Avenue, Milwaukee, Wisconsin 53215.**

CLINICAL PHARMACOLOGIST

The University of Arkansas for Medical Sciences is seeking applicants for a position of assistant or associate professor in clinical pharmacology. A clinically qualified M.D. with the capability of developing a strong research program in clinical pharmacology is preferred, but a Ph.D. with interests in drug metabolism and pharmacokinetics would be considered. This tenure-track position is available immediately. Send replies and résumé to: **Dr. D. E. McMillan, Department of Pharmacology, College of Medicine, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, Arkansas 72201. Equal Opportunity Employer.**

DIRECTOR OF NEPHROLOGY. The Department of Medicine, University of Alabama Medical Center, is seeking candidates for the position of director for its Division of Nephrology. Qualifications include a substantial background in academic nephrology, with interest and experience in patient care, teaching, research, and administration. Interested persons should submit their curriculum vitae and letters summarizing their qualifications at the earliest possible time to: **Thomas N. James, M.D., Department of Medicine, University of Alabama Medical Center, Birmingham, Alabama 35294. An Equal Opportunity/Affirmative Action Employer.**

MARINE STUDY DIRECTOR

The Victorian Institute of Marine Sciences (VIMS) invites applications from persons with a scientific, engineering, or other appropriate background for the position of Study Director for the first phase of the Bass Strait Study — a multidisciplinary continental shelf study.

The study will develop an understanding of the structure and processes of Bass Strait as a marine system, and provide results of significance for its future management.

Phase 1 of the study will be about two years duration and commence early in 1979. It will consist of a review and analysis of all existing information (biology, oceanography, geology, engineering); the initiation of research programs to fill major gaps and address specific problems; development of a research prospectus for subsequent phases of the Bass Strait Study. The scientific program will be carried out mainly by contract research.

The Study Director should have proven research and administrative accomplishments, and preferably have had experience in multidisciplinary studies.

Salary \$A28,000 to \$A32,000 p.a. Other benefits available.

Direct enquiries and letters of application with resume to the Secretary, Victorian Institute of Marine Sciences, 14 Parliament Place, Melbourne, Australia, 3002, Telephone (03) 651 1998.

POSITIONS OPEN

CURATORIAL TRAINEES MARINE BIOLOGY

Applications are wanted for curatorial trainees in marine biology. The individual applying must possess an advanced degree. Applicants must have a strong desire to handle the management and exhibition of diverse aquatic animals, principally fish—fresh- and saltwater species—from all parts of the world. The candidates must be able to write for technical and popular audiences, take charge of projects, manage animal-care staff, establish care and feeding techniques, exhibit design, and identify and label species.

Applicants should submit curriculum vitae to:

**James B. White, Personnel Department
New York Zoological Society
185th Street and Southern Boulevard
Bronx, N.Y. 10460
An Equal Opportunity Employer, M/F**

DEAN COLLEGE OF VETERINARY MEDICINE UNIVERSITY OF MINNESOTA

Applications and nominations are invited for the position of dean of the College of Veterinary Medicine. Candidates must be veterinarians and should have demonstrated ability in scientific research and teaching and an understanding of the service aspects of veterinary medicine. Previous experience in practice, academic, industrial, or governmental veterinary medicine is required.

The dean provides leadership for all aspects of the educational, research, and service functions of the faculty and has budgetary responsibility for the college, which has 82 faculty members, 125 civil service personnel, and approximately 320 students enrolled in the D.V.M. program and 100 students in graduate and residency programs.

Applications should include curriculum vitae and names and addresses of references and should be sent to: **Dr. A. J. Linck, Chair, Advisory Selection Committee, 213 Morrill Hall, University of Minnesota, Minneapolis, Minn. 55455.** They must be postmarked no later than 27 November 1978.

The University of Minnesota is an Equal Opportunity Educator and Employer.

TENURED FACULTY POSITION IN APPLIED GEOPHYSICS AT THE UNIVERSITY OF CALIFORNIA, BERKELEY

A faculty position is available in the Engineering Geoscience Group in the fields of applied geophysics with special emphasis on mineral exploration. Applicants should have strong quantitative backgrounds in mathematics and physics and must have demonstrated research and practical experience in the application of a wide range of geophysical techniques to the mineral and energy industry. The incumbent would be expected to teach graduate-level courses in some combination of the following areas: rock properties, potential field methods, electrical and electromagnetic methods, radiometric methods, geophysical data processing, mineral exploration economics, exploration geochemistry, and bore hole geophysical methods. *The University of California is an Affirmative Action Employer.* Inquiries should be made to **Professor R. H. Bragg, Chairman, Department of Materials Science and Mineral Engineering, University of California, Berkeley, California 94720,** and should include a résumé and names and addresses of references. This material should be received by the chairman no later than 1 November 1978.

FACULTY POSITION

The University of California, Irvine, College of Medicine, Department of Physiology, is seeking an assistant or associate professor. We intend to fill the position by autumn 1979.

Candidates should have research interests at the molecular or cellular level in problems of physiological importance. Candidates should hold a doctoral degree (M.D. or Ph.D.), have postdoctoral training, and have shown the excellence and originality in research expected of a potential leader in his or her field. Duties include teaching physiology to medical students and biophysics and physiology to graduate students.

Applications from qualified candidates are welcome; minorities and women are encouraged to apply. Send names of four references and curriculum vitae to: **Dr. Stephen H. White, Chairman, Department of Physiology, University of California, Irvine, California 92717.**

POSITIONS OPEN

DIRECTOR OF INPATIENT PSYCHIATRIC SERVICE

Mental Health Services of the Roanoke Valley and the Roanoke Memorial Hospitals are soliciting candidates for the above position. Board-certified or -eligible. Outstanding full-time opportunity to direct inpatient service of a general hospital and to participate in the teaching of family practice residents and medical students. University of Virginia faculty appointment available for qualified candidate. Private practice possible. Salary: \$40,000, plus fringe benefits. Must have or be eligible to obtain license to practice in Virginia. Contact: **Marvin E. Perkins, M.D., Medical Director, Mental Health Services of the Roanoke Valley, 920 South Jefferson Street, Suite 500, Roanoke, Va. 24016. Equal Opportunity Employer, M/F.**

Simon Fraser University

DIRECTOR MASTER OF NATURAL RESOURCE MANAGEMENT PROGRAM

A Director is required for the Master of Natural Resource Management Program which has been established at Simon Fraser University. The new program, which will admit its first students in September 1979, consists of 2 years of graduate work and is designed for recent graduates and experienced professionals. The Director will coordinate instructional and research programs from varied disciplines and departments.

The Director should have an established academic and professional reputation in one of the disciplines related to resource management and will be offered a permanent appointment jointly between the program and an appropriate department.

The preferred date of appointment is January 1979, but later starting dates can be negotiated. Salary and rank will be dependent upon qualifications. Applicants should send curriculum vitae and the names of three referees to:

**Dr. T. W. Calvert
Dean
Faculty of Interdisciplinary Studies,
SIMON FRASER UNIVERSITY
Burnaby, British Columbia, Canada V5A 1S6**

ENDOCRINOLOGIST

Senior-level appointments are being considered at the Worcester Foundation for Experimental Biology. Candidates with an established reputation and the proved ability to obtain grant support in the field of endocrinology are encouraged to apply. Special consideration will be given to applicants in the following areas:

- 1) Hormone receptors and mode of hormone action,
- 2) Neuroendocrinology, and
- 3) Endocrinology of pregnancy and parturition.

Send two copies of curriculum vitae, together with the names of three referees, to: **Endocrine-Reproductive Biology Search Committee, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Massachusetts 01545.**

An Equal Opportunity/Affirmative Action Employer

The University of Maryland Baltimore County (UMBC), Department of Chemistry, invites applications for **FACULTY POSITIONS** at the rank of assistant professor in the areas of (i) **biochemistry** and (ii) **analytical chemistry**. Postdoctoral experience required. Starting date: September 1979. Applicants should arrange to have three letters of recommendation, a résumé, and an outline of future research plans forwarded to:

**Chairman, Search Committee
Department of Chemistry
University of Maryland Baltimore County
5401 Wilkens Avenue
Catonsville, Maryland 21228**

GEOLOGY. Tenure-track position open 29 January 1979, for a Ph.D. geologist with specialties in geomorphology or glacial geology and environmental geology. Curriculum vitae, three letters of reference, and official transcripts should be submitted to: **Charles Fetter, Chairman, Department of Geology, University of Wisconsin/Oshkosh, Oshkosh, Wis. 54901,** by 1 November 1978. *University of Wisconsin/Oshkosh is an Equal Opportunity/Affirmative Action Employer.*

POSITION ANNOUNCEMENT

Position: Sea Grant Director, South Carolina Sea Grant Consortium
Yearly Salary: Competitive
Location: Marine Resources Research Institute at Fort Johnson, Charleston, South Carolina
Position Available: January, 1979 or earlier
Application Deadline: October 23, 1978

The South Carolina Sea Grant Program was initiated in 1972 and now involves seven institutions (The Citadel, Clemson University, the College of Charleston, the South Carolina Wildlife and Marine Resources Commission, South Carolina State College, the Medical University of South Carolina, and the University of South Carolina) working cooperatively in the broad areas of marine research, education and advisory services. These institutions were recently constituted by the General Assembly of the State of South Carolina as the South Carolina Sea Grant Consortium. The Director will be employed by this Consortium whose program will have both a state and a regional focus.

Responsibilities and Duties of the Position: The Director will: 1) administer all aspects of the program under the general policy of a board of directors in accordance with the founding legislation; 2) be responsible for program development and program advancement; 3) monitor and evaluate research, education and advisory projects; 4) supervise preparation and distribution of publications and releases; 5) act as the primary liaison between the Consortium and the national office for Sea Grant, campus coordinators, and individual investigators; 6) represent the program at appropriate state and national meetings and conferences; 7) maintain close contact with State and Federal agencies involved in marine related activities in South Carolina and neighboring states. It is expected that the administrator have time for his/her own research.

Qualifications: Ph.D. in a discipline related to the marine environment; professional experience in a broad spectrum of marine science research, educational activities, and program management and development; specific experience in Sea Grant and advisory programs at the national or state level desirable; experience in management and budgeting and the ability to work with interdisciplinary and multi-institutional groups.

Persons wishing to be considered should submit their resume and credentials and the names of three professional references to:

Dr. John M. Bevan, Chairman, Board of Directors, South Carolina Sea Grant Consortium, The College of Charleston, Charleston, South Carolina 29401

AN EQUAL OPPORTUNITY EMPLOYER

Pharmaceutical Research

Due to continuing expansion of our research efforts in the investigation of new therapeutic agents, we currently have available three (3) attractive career opportunities, all at the Ph.D. level.

DRUG METABOLISM

This position requires a degree in Analytical chemistry, Biochemistry or similar discipline, with a minimum of five years experience in drug metabolism and analytical instrumentation. Supervisory capabilities desirable.

PHARMACOLOGY

Two (2) appointments are presently available on our staff in New Entity research:

One is for a respiratory pharmacologist or physiologist requiring a minimum of 2 years experience using in vivo techniques applicable to the investigation of lung functions in non-rodent species. This work is being done in conjunction with our active program in respiratory allergies.

The second is in cardiovascular pharmacology requiring 1-5 years applicable experience in drug development or disease processes with particular emphasis on hypertension.

We offer excellent benefits and a challenging environment in which to apply your professional capabilities. Resumes should be sent to: Manager, Personnel Administration, Schering-Plough Research Center, 60 Orange Street, Bloomfield, New Jersey 07003.



Schering-Plough

We Are An Equal Opportunity Employer M/F



METABOLISM SPECIALIST

The General Foods Technical Center seeks a Ph.D. Biochemist or Pharmacologist or an MS with 3-5 years experience in the areas of drug or chemical metabolism and pharmacokinetics. Knowledge of radio-isotope techniques, separation and purification, isolation and structural analysis of metabolites is essential.

This position will conduct research in adsorption, distribution, biotransformation, excretion and kinetic studies in laboratory animals.

Our research facility which is a short distance from New York City, offers very attractive living and working conditions.

Reply fully with resume and salary requirements to:

PERSONNEL ASSOCIATE (D-31).

GENERAL FOODS CORPORATION

TECHNICAL CENTER

555 South Broadway,
Tarrytown, New York 10591

An Equal Opportunity Employer M/F/Hc.



LADY DAVIS FELLOWSHIP TRUST

P.O. Box 1255, Jerusalem, Israel

FELLOWSHIPS FOR STUDY AND/OR RESEARCH AT GRADUATE OR POST-DOCTORAL LEVELS AND VISITING PROFESSORSHIPS

in 1979-80

at the Hebrew University of Jerusalem and at the Technion-Israel Institute of Technology, Haifa

GRADUATE AND POST-DOCTORAL FELLOWSHIPS

ELIGIBILITY: Lady Davis Fellows will be selected on the basis of demonstrated excellence in their studies, promise of distinction in their chosen fields of specialization and qualities of mind, intellect and character.

Post-doctoral candidates shall have completed their doctoral dissertation before arrival in Israel.

The Graduate and Post-doctoral Fellowships are tenable for a period of one year. They may be renewed for a second year and in special circumstances extended to a third year.

The grant is intended to defray the cost of the Fellow's travel and tuition fees and to meet reasonable living expenses.

APPLICATION: Graduate candidates may apply during their senior academic year or after they have undertaken study in a graduate school. Post-doctoral candidates may apply at an early stage of their professional career (not later than 3 years after completion of their doctoral dissertation).

Graduate and Post-doctoral candidates (including Israelis abroad) may obtain application forms from the Lady Davis Fellowship Trust at the above address, after they indicate the category of Fellowship for which they are eligible.

Completed applications must reach the office of the Trust not later than January 1, 1979.

VISITING PROFESSORSHIPS

These Fellowships are intended for candidates with the rank of Full or Associate Professor at their own institution. They are tenable for periods from one trimester (or semester) to a year.

APPLICATION: Forms may be obtained from the Lady Davis Fellowship Trust at the above address. Complete application forms for the Hebrew University must reach the office of the Trust by November 30, 1978. Those for the Technion—by December 31, 1978.

POSITIONS OPEN

Tenure-track ENVIRONMENTAL STUDIES FACULTY POSITION begins January or August 1979. Appointee will share responsibility for building teaching and research program of small developing department. Program focuses on man/environment interaction. Doctorate required; college teaching experience desirable; documentation of environmental orientation essential. Rank and salary open. Send résumé and references to: **Administrator, Program in MPS, School of Human Ecology, Howard University, Washington, D.C. 20059.**

FACULTY APPOINTMENT. The Division of Environmental Studies at the University of California, Davis, is seeking applications for a regular faculty position at any academic level in **RESOURCE ECONOMICS**. A Ph.D. degree (or equivalent qualifications) and evidence of experience in, and promise of, scholarly contributions to the areas of the analysis and evaluation of public policies for environmental quality and natural-resources management are required. Teaching duties will be in the fields of resource management, environmental economics, policy analysis, or regional economics. Deadline for applications is 15 November 1978. Applicants should submit curriculum vitae, transcripts, names and addresses of three references, and copies of relevant publications. For further information, contact: **Peter J. Richerson, Chair of the Search Committee, Division of Environmental Studies, University of California, Davis, California 95616.** *The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.*

HEAD, BOTANY DEPARTMENT. Clemson University invites applications for position available 1 July 1979. Applicants should have a Ph.D. in botany or a closely allied field, recognized professional stature in teaching and research, and evidence of potential as an effective administrator. The Botany Department emphasizes undergraduate/graduate education and research in fundamental areas of plant science. Telephone or send résumé and three letters of reference to: **T. M. McInnis, Chairman, Search Committee, Botany Department, Clemson University, Clemson, S.C. 29631. Telephone: 803-656-3452.** *Clemson University is an Equal Opportunity/Affirmative Action Employer.*

BIOCHEMISTRY—SECTION HEAD

An opening is available in our Research Division for an experienced individual with Ph.D. degree to develop analytical methodology for the determination of drug residues and their metabolites in tissue. Also develop assays of methodology for pharmaceutical identity and stability testing including pharmacokinetic studies. Our Research Division is a small, very active group working in a modern, well-equipped facility. Salary and benefits compare favorably to other industry companies. Submit résumé in confidence to: **K-30, P.O. Box 2069, Philadelphia, Pennsylvania 19103.** *Equal Opportunity Employer, M/F/H.*

Marine Physical Laboratory is interested in locating a qualified individual for a **SPECIALIST IN MARINE PHYSICS** position with the following requirements: Ph.D.-level background in ocean acoustics and physical oceanography with experience in conducting experiments at sea, and experience in computerized data analysis systems for outline reduction at sea. Experience in electronic hardware desirable. Salary range from \$27,000 to \$30,000, depending on qualifications and experience. Position details may be obtained by writing to: **Dr. F. N. Spiess, Marine Physical Laboratory of the Scripps Institution of Oceanography, University of California, San Diego, San Diego, California 92152. Telephone: 714-452-2300.** *The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available (2 years) in the area of molecular cloning of spore genes in *Bacillus subtilis*. Applicants should have extensive experience in microbiology, microbial genetics and/or biochemistry. Salary commensurate with the position and experience. Send curriculum vitae and the names and phone numbers of three individuals who will serve as references to:

**Dr. Paul S. Lovett
Department of Biological Sciences
University of Maryland Baltimore County
Catonsville, Maryland 21228**

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

POSITIONS OPEN

IGNEOUS GEOLOGIST Bowling Green State University

The Department of Geology invites applications for a faculty position to be filled before 1 September 1979. We are searching for a Ph.D. whose training and research are in igneous geology to direct graduate-student research and to teach courses in introductory geology, igneous petrology and petrography, optical mineralogy, and x-ray mineralogy. We prefer a person who has done and will continue to do fieldwork, and who is interested in teaching field geology (summers). The department has 11 full-time faculty members representing most areas of the geosciences, and offers B.S., B.A., and M.S. degrees. Send letter of application, résumé, including list of publications, a statement of teaching and research interests, transcripts, and three supporting letters, by 15 December 1978, to:

**Dr. J. J. Mancuso, Chairman
Department of Geology
Bowling Green State University
Bowling Green, Ohio 43403**

Bowling Green State University is an Equal Opportunity/Affirmative Action Employer.

MATERIALS SCIENTIST

The contract research division of Gillette Research Institute, a division of the Gillette Company, is seeking a Ph.D.-level physical chemist/chemical engineer for contract research in the materials area. We require 5 years of contract experience and flexibility in handling a broad spectrum of work. Permanent full-time position. Salary commensurate with experience level. Laboratories are located in a preferred Washington, D.C., area. Gillette provides an excellent company-paid fringe package. Send résumés detailing experience and recent salary history to:

**Gillette Research Institute
1413 Research Boulevard
Rockville, Maryland 20850
Telephone: 301-424-2000**

An Equal Opportunity Employer

PHYSICIST/MATHEMATICIAN. The Center of Environmental Science of Unity College is seeking a physical scientist to develop an innovative undergraduate program in mathematics and physics starting January 1979. We seek candidates with a strong interest in creative undergraduate education. Applicants should send full curriculum vitae by 1 November and arrange for three letters of reference to be sent to: **Dr. Louis V. Wilcox, Jr., Chairman, Center of Environmental Science, Unity College, Unity, Maine 04988.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION in MEMBRANE PROTEIN BIOCHEMISTRY is available immediately. The project involves biochemical and immunological studies of the acetylcholine receptor protein. Experience with protein purification and characterization, electrophoresis, peptide mapping, and some sequencing required. Experience or familiarity with neurobiology and immunochemistry desirable. One-year salary and benefits guaranteed, continuation dependent on fellowship or other arrangements. Send curriculum vitae, two letters of reference, and names of two other references to:

**Jon Lindstrom
Salk Institute for Biological Studies
P.O. Box 1809
San Diego, California 92012**

POSTDOCTORAL POSITION. Two available early 1979 for Ph.D.'s or M.D.'s interested in the biomedical mechanisms involved in the hormonal regulation of cyclic AMP metabolism. Persons with backgrounds in enzymology, membrane biochemistry, and hormone- or ligand-binding preferred. Research will be conducted in an environment of extensive interest in mechanisms of hormone action in new and well-equipped laboratories to be completed summer 1979. Applicants should send résumés and names of references to: **Dr. Roger A. Johnson, Department of Physiology, Vanderbilt University Medical School, Nashville, Tenn. 37232.** *An Equal Opportunity Employer.*

TROPICAL AGRICULTURAL ECOLOGIST

Project manager for research project in Costa Rica. Research on plants, soils, and insects, plus local responsibility for logistics and administration. Must be bilingual, have tropical experience, and at least M.S. in ecology, entomology, agriculture, or forestry. Send names, addresses, and telephone numbers of four referees, plus curriculum vitae to: **Jack Ewel, Botany Department, University of Florida, Gainesville, Fla. 32611** by 27 October.

POSITIONS OPEN

POSTDOCTORAL POSITION/MEDICAL CHEMISTRY. Position available immediately for structure-activity study of tumor-promoting substances. Applicant must have experience in microscale synthetic manipulations and analytical methods. Send résumé and three reference letters to: **Dr. Paul Brynes, Pharmacology Department, State University of New York at Stony Brook, Stony Brook, New York 11794.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately. Biochemical studies on the dimorphism of *Mucor rouxii*. The position is for 2 years with a starting salary of \$12,000 per year. Please send curriculum vitae and names of three references to:

**Dr. Vicente D. Villa
Biology Department
Box 3AF**

**New Mexico State University
Las Cruces, New Mexico 88003**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION available for research in the general area of membrane transport in plant cells. The approach may emphasize biochemistry, biophysics, structure, or physiology. Opportunity also for moderate participation in teaching. Contact: **Ronald Poole, Biology Department, McGill University, 1205 McGill Avenue, Montreal, Quebec, Canada H3A 1B1.**

A **POSTDOCTORAL POSITION** is available immediately to study the structure and function of *Drosophila* ribosomes. Background in nucleic acids, proteins, or immunology preferred. Salary: \$10,000 to \$12,000 per year, depending on experience. Send curriculum vitae and three letters of recommendation to: **Dr. Y. Chooi, Department of Biology, Indiana University, Bloomington, Indiana 47401.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS AVAILABLE

Exceptional candidates (two) sought to join a group investigating viral and immunological aspects of the role of the major histocompatibility complex in resistance to type-C RNA virus-induced leukemia. A background in immunology, virology, or biochemistry is required. Successful applicants will benefit from an excellent scientific and cultural environment. Competitive salary. Position available January 1979. Interested candidates should submit curriculum vitae and three letters of reference to:

**Dr. Daniel Meruelo
Irvington House Institute
New York University Medical Center
550 First Avenue
New York, N.Y. 10016**

New York University Medical Center is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available for biochemist or physiologist. Project involves catecholamine measurements in relation to the effects of drugs on neural control of vascular reactivity. Salary range: \$16,000 to \$19,000, depending on training and experience. Send curriculum vitae and two letters of reference to:

**Sheila M. Muldoon, M.D.
Department of Physiology
Uniformed Services University of the Health Sciences
4301 Jones Bridge Road
Bethesda, Maryland 20014
Attention: Personnel**

An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE in BIOCHEMISTRY OR BIOCHEMICAL PHARMACY to work on 5-year grant on the purification and study of microsomal enzymes from the liver. Salary: \$13,000 to \$17,000; no postdoctoral experience necessary. Contact: **Jordon L. Holtzman, M.D., Ph.D., Clinical Pharmacology, VA Hospital, Minneapolis, Minnesota 55417.**

TOXICOLOGY in Engineering Chemistry

The Department of Chemical Engineering at Virginia Polytechnic Institute and State University (VPI & SU) seeks a colleague for teaching and research in toxicology with particular emphasis on the chemical process and related industries. Candidate must also be interested in some participation in teaching the core courses of chemical engineering. Tenure-track position. Send résumé and an outline of research plans to: **Dr. H. A. McGee, Jr., Head, Chemical Engineering Department, VPI & SU, Blacksburg, Virginia 24061.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Recent Ph.D. with background in aquatic ecology and/or limnology to carry out paleolimnological research on effects of atmospheric inputs of acids and heavy metals on lake plankton, including diatom and cladoceran analyses of lake sediment cores. Essential prior experience in (i) diatom taxonomy and identification and (ii) multivariate statistics and associated computer programming. Send curriculum vitae and names of three references to: **Ronald B. Davis, Department of Botany and Plant Pathology, University of Maine, Orono, Maine 04469.** *Equal Opportunity/Affirmative Action Employer.*

PROFESSOR OF PATHOLOGY

Applications are sought for the position of professor of pathology in the Eastern Virginia Medical School. We seek a candidate with M.D. degree and experience in anatomical pathology both at the academic- and hospital-practice level to participate in an active educational program for the teaching of medical students and residents. Excellent department research facilities available, including electron microscopy. Applications should include curriculum vitae, bibliography, and letters of recommendation. Please send to: **Robert J. Faulconer, M.D., Chairman, Department of Pathology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501.** *An Equal Opportunity/Affirmative Action Employer.*

PSYCHOLOGISTS, BIOLOGISTS, ANTHROPOLOGISTS. The Department of Psychology of the University of Pennsylvania seeks candidates for positions at the level of assistant professor for fall 1979. Applicants working in psychology or related areas should have a faculty sponsor send a detailed letter of recommendation, the applicant's curriculum vitae, a statement of research interests and teaching competence, and the names of two or more additional references. These materials should be sent in one package, before 1 December 1978, to: **Search Committee, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, Pa. 19104.**

POSITIONS OPEN

POSTDOCTORAL POSITION IN PROTEIN STRUCTURE. For person with background in protein chemistry to conduct sequence and chemical modification studies of phosphoglucomutase in conjunction with ongoing X-ray diffraction analysis and studies on the chemical basis for catalysis by this enzyme. Position available within next few months; 2 years; salary: \$11,000. Send curriculum vitae and names of three references to: **Dr. William J. Ray, Jr., Department of Biological Sciences, Purdue University, West Lafayette, Ind. 47907.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH POSITION. Interactions of near-UV radiation and cells. Ph.D. in biological sciences, biochemistry, or biophysics required. Training desired in two of the following: membrane studies, biochemistry, and bacteriology. One-year position with extension possible. Send curriculum vitae and letters by 1 November 1978 to: **Dr. John Jagger, The University of Texas at Dallas, Box 688, Richardson, Texas 75080.** Indication of sex and ethnicity for affirmative action statistical purposes is requested but not required. An Affirmative Action/Equal Opportunity Employer.

Sacramento—University of California, Davis, Department of Psychiatry, has openings for **GENERAL PSYCHIATRY FACULTY.** Department operates three CMHC's as setting for educational and scientific programs for all mental health disciplines. *An Affirmative Action/Equal Opportunity Employer.* Write: **Joe P. Tupin, M.D., Division of Mental Health, Sacramento Medical Center, 2315 Stockton Boulevard, Sacramento, California 95817.** Positions available immediately. Applications accepted until 31 December 1978. Salary level negotiable.

RESEARCH ASSOCIATE. Immediate opening for a Ph.D. in biochemistry with 1 or 2 years of postdoctoral experience in mitochondrial metabolism. Inquiries to: **Adel A. Yunis, M.D., Department of Medicine (R-38), University of Miami School of Medicine, P.O. Box 016960, Miami, Fla. 33101.** Telephone: 305-547-6963.

An Equal Opportunity Employer

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS available immediately for studies on the control of protein synthesis during the early embryonic development of sea urchin and *Artemia salina*. Starting salary approximately \$11,000 to \$12,000 per year, for a minimum of 2 years. Send curriculum vitae and names of three references to: **Dr. Lawrence I. Slobin, Department of Biochemistry, School of Medicine, University of Mississippi Medical Center, 2500 North State Street, Jackson, Miss. 39216.** *Equal Opportunity Employer, M/F.*

VASCULAR PLANT REGULATORY BIOLOGIST

The Department of Biology of the University of Oregon expects to make a regular faculty appointment during the academic year 1979-1980. The appointment will be made at the assistant or associate professor level. We will consider proposals also from two qualified persons wishing to share the position.

Applicants should be broadly trained in the biology of higher plants and demonstrate the ability to carry on a sustained research program, applying genetic, molecular, or biophysical approaches to investigations in areas such as mechanisms of action of plant hormones, developmental genetics, organellar biogenesis, tumorigenesis, membrane function, and nuclear cytoplasmic interactions. Ample laboratory space and certain shared facilities and equipment will be made available.

Teaching responsibilities will include participation in our undergraduate program and development of graduate courses in fields of particular interest.

Applications from all qualified candidates are welcome; women and members of minority groups are encouraged to apply. Send curriculum vitae, a statement of research interest, copies of publications, and the names of three references by 1 January 1979 to:

**Dr. Donald R. Hague
Chairman, Search Committee
Department of Biology
University of Oregon
Eugene, Oregon 97403**

An Equal Opportunity/Affirmative Action Employer

ACRS SCIENCE AND ENGINEERING FELLOWSHIPS

The Advisory Committee on Reactor Safeguards, U.S. Nuclear Regulatory Commissions, accepting applications for appointment to the ACRS Fellowship Program. Important goals of the program are: (i) to assist the ACRS in performing its functions relative to nuclear power safety and (ii) to provide an opportunity for talented young engineers and scientists to develop an understanding of the nuclear power-licensing process and expertise in the nuclear reactor safety area.

Applicants with the following backgrounds will be considered: (i) a doctorate in scientific or engineering fields with up to 5 years of postdoctoral experience; (ii) students in science or engineering who are in the final stage of their Ph.D. work; and (iii) engineers and scientists with experience in the nuclear field, who are at a stage in their careers when they can undertake a 1- or 2-year fellowship position on a full-time or part-time basis.

Most positions will be located in downtown Washington, D.C. However, a few will be located at institutions around the nation where the necessary facilities are available to perform ACRS related work.

Fellows located in Washington on a full-time basis will be compensated at approximately the GS-12 level—\$21,883 to \$25,528. Fellows located at various universities will be compensated at a level competitive with other scientific and engineering graduate and postdoctoral fellowships being offered by the university. Applicants must be U.S. citizens.

Application for ACRS Washington Fellowships may be made on Standard Form 171, Personal Qualifications Statement. University-sponsored fellowship nominations may be submitted by letter or other means.

U.S. Nuclear Regulatory Commission

Send applications or letters to:
ACRS/NRC, Washington, D.C. 20555
Attention: Fellowship Program



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□ \$31 USA □ \$41 Canada, PUAS □ \$44 Foreign
□ \$61 Air-surface delivery via Holland

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□ \$65 USA □ \$75 Canada, PUAS □ \$78 Foreign
□ \$95 Air-surface delivery via Holland

□ Payment enclosed □ Bill me later

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City

State

Zip

MT10

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POSITIONS OPEN

The University of Alexandria Research Centre (UNARC), Alexandria, Egypt, announces **POSTS** (starting 15 September 1979) for experts with at least 5 years of postdoctoral research experience in: (i) corrosion science, (ii) semiconductors and/or integrated circuits, and (iii) laser physics. There is also a post (iv) for a laboratory engineer having a B.E. with adequate practical experience. The experts will be required to conduct and supervise predoctoral research, collaborate with the postdoctoral fellows, give advanced courses, and hold seminars in their respective specializations. The laboratory engineer will maintain, repair, and design the laboratory equipment, as well as train local counterparts in laboratory operations.

Appointments will be made on contractual basis for 1 year at the candidate's present substantive salary, to be paid in the United States, plus different allowances and passage money (for candidate and family), including transportation of household.

Working language is English, with knowledge of Arabic desirable. Interested scientists should apply before 1 December 1978 to: Director, UNARC, Box 832, Alexandria, Egypt. Further information is available from: Edgar Pike, NE/Tech., U.S. AID, U.S. Department of State, Washington, D.C. 20523.

RESEARCH ASSOCIATE to study enzyme that reduces glutamate to gamma glutamyl semialdehyde—a newly detected enzyme in mammalian homogenate or the mammalian multifunctional enzymes for de novo pyrimidine biosynthesis. Recent Ph.D. or M.D. interested in enzymes or human mutants. Send curriculum vitae and names, addresses, and telephone numbers of three references to: M. E. Jones, Department of Biochemistry, University of North Carolina, Chapel Hill, N.C. 27514. *Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE IN BIOCHEMISTRY/REPRODUCTIVE ENDOCRINOLOGY. Individual with experience in peptide chemistry and purification to isolate and characterize inhibitor of oocyte maturation. Colleagues are engaged in training program in reproductive endocrinology and are members of Biochemistry and Physiology Departments. Starting date: 1 November. Send résumé and names of three references to: Dr. Cornelia P. Channing, Department of Physiology, University of Maryland School of Medicine, Baltimore, Maryland 21201. *An Equal Opportunity/Affirmative Action Employer.*

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POSTDOCTORAL TRAINEESHIPS IN NEUROPLASTICITY. Positions are available for training in research related to the development and regeneration of the nervous system. The traineeships, supported by an NINCDS training grant, are available to individuals with the Ph.D. or M.D. degree beginning 1 January or 1 July 1979. This multidisciplinary program has as available preceptors Doctors N. Bertram, T. Cunningham, M. Goldberger, H. Murphy, M. Murray, L. Pubols, L. Ross, and B. Weiss. Applications, consisting of a statement of research interests, curriculum vitae, and three references, should be sent to: Dr. Leonard L. Ross, Department of Anatomy, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pa. 19129. *An Equal Opportunity/Affirmative Action Employer.*

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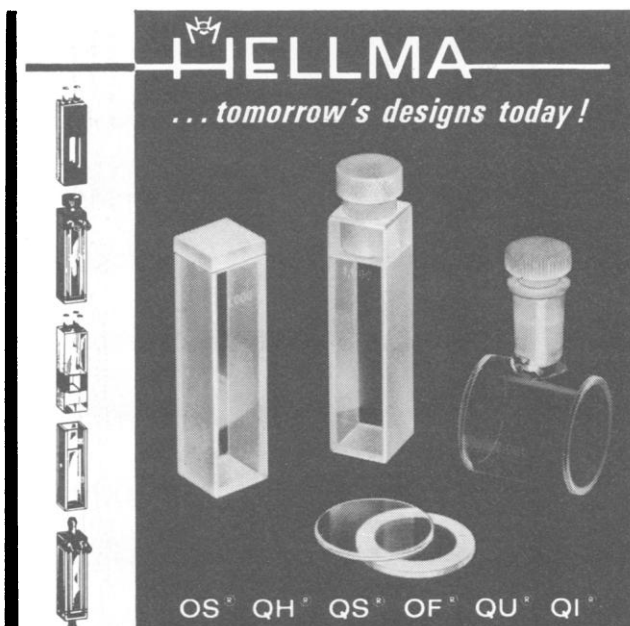
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