

GORDON RESEARCH CONFERENCES

"FRONTIERS OF SCIENCE"

1976 APPLICATION

Please complete this application and mail (in duplicate)
to the Director.

DO NOT SEND DEPOSIT WITH THIS APPLICATION

Office Use Only:

Received:
Sent to Chairman:
Waiting List Letter:
Registration Mailed:
Registration Returned:

Conference on _____ Date: _____
(Name of Conference — Please Print)

Name: (Please Print) _____

Location _____

Organization: _____

Business Address: _____

(inc. dept., street & no.) _____

City and State: _____

Zip Code

Accommodations at the Host site are requested for:

☐

Applicant

☐

Wife Husband

(Children must be at least 12 years of age.)

☐

Child

State name and age of each child requiring accommodations.

IMPORTANT

Indicate your particular activities which justify favorable consideration of you as a participant in and contributor to this Conference. (Not required of speakers.) Applications are referred to the Conference Committee for review in accordance with the established regulations, and this information is essential.

Please return to:

Dr. Alexander M. Cruickshank, Director
Gordon Research Conferences
Pastore Chemical Laboratory
University of Rhode Island
Kingston, Rhode Island 02881

Tel: (401) 783-4011

Office — Summer Schedule

Colby-Sawyer College
New London, N. H. 03257
(603) 526-2870

The recording of lectures by tapes, etc. and the photography of slide material are prohibited. Printed reference to Gordon Research Conference papers and discussion is not permitted. Authors are requested to omit references to the Conference in any publication. Guests are not permitted to attend the conference lectures and discussion sessions. Each member of the Conference agrees to these regulations when registration is accepted.

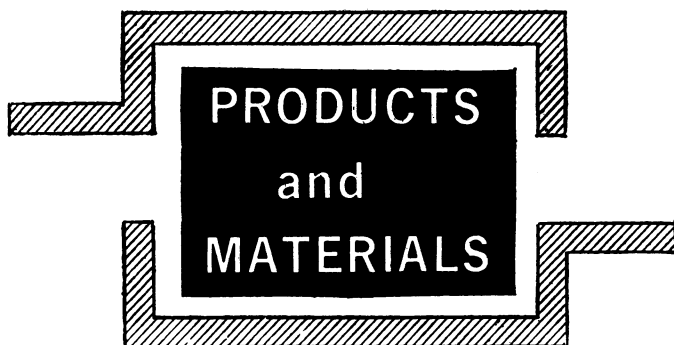
Signature _____

Date _____

Telephone: Business _____

Home _____

DO NOT SEND DEPOSIT WITH THIS APPLICATION



Plastic Blood Sample Mailer

A Styrofoam container will accommodate up to eight sample tubes and four slides. The device is assembled in two pieces and an interlock secures the container. Insulating properties protect the samples from extremes of temperature encountered en route. Mailing sleeves for proper addressing and sample identification are also available. Polyfoam Packers. Circle 761.

Thyroxine Radioimmunoassay

RIA-Mat T4 I-125 incorporates 30-minute incubation and separation stages. It requires no extraction step and uses only 10 microliters of serum. Separation utilizes the RIA-Mat strip and no centrifuging, decanting of radioactivity or resin washing is necessary. Two types of kit are available: a 100-test form for manual or semi-automated procedures and a 250-test unit for automated procedures. Mallinckrodt. Circle 762.

Biofeedback Instrumentation

Instruments as simple as the J-series in which the biofeedback unit forms a closed loop with the subject or as complex as the P-series designed for clinical use are available. The clinical units feature a control unit whereby the operator intervenes to change the nature of the signal processing which in turn allows shaping of the subject's response. Still more complex are the BL-series setups in which auxiliary displays are run by optically isolated binary and analog outputs. Finally, there are the Q-series including accessories for data logging and computing. Cyborg. Circle 764.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (on pages 334A and 398A) and placing it in the mailbox. Postage is free. —RICHARD G. SOMMER

Rectified Microscope Optics

Rectified optics employ strain-free color-corrected lenses to which thin plates of optical mica have been added. The mica rectifies the rotation of the plane of polarization resulting from passage of polarized light through curved lenses. These optics permit the use of larger apertures and increase sensitivity to 1 to 2 angstroms. These optics greatly enhance the usefulness of optical microscopes in biological research. They are available in objectives with magnifications of 10, 20, 40 and 100 power and in condensers with apertures of 0.52 for the dry lens and 1.15 for the oil-immersion lens. Nikon. Circle 756.

Reagent Test Strips

N-Multistix are designed for urine chemistry. Eight tests may be performed with a single strip. The tests are for nitrite, glucose, protein, occult blood, pH, ketones, bilirubin, and urobilinogen. All results are available within 60 seconds after the strip is dipped in a sample. The strips are packaged in bottles of 100 each. Ames. Circle 758.

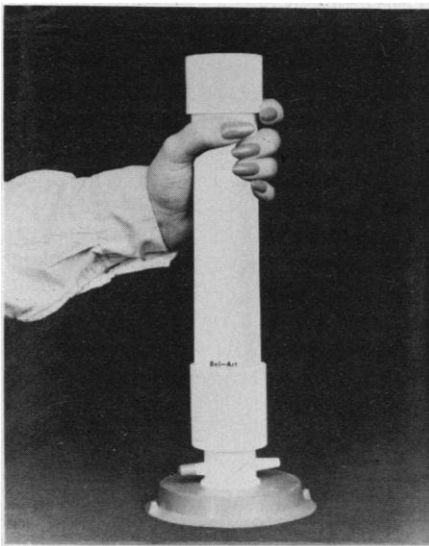


Fig. 1. Bel-Art Products' new hand-operated vacuum pump.

Blood Dialysis

Sinbad II features a venous monitoring center, an arterial monitoring center, a control center, "clamp" indicators, time control for infusion time to patients, and mode selector for unit function as an alternating clamp device or as a monitor and alarm for two-needle dialysis. The device serves in single-needle dialysis in twin roller tubing, single roller tubing and parallel flow kidneys. Constant air bubble surveillance is maintained to a sensitivity of 0.25 milliliter. Dynasciences Medical Products. Circle 760.

Cardiac Output Computer

Cardiotherm 100 reads cardiac output, directly in liters per minute up to a value of 20 liters per minute. It will utilize any thermistor catheter and provides safety from electrical hazard. Computing parameters such as volume of indicator, blood temperature, and indicator temperature are entered directly with dials. Circuitry is mainly powered by battery on a standby basis. All circuits are activated for 1 minute during injection to obtain the reading. Working time is thus specified by the number of measurements performed per battery charging. The amount of indicator per injection is variable for greater versatility relative to patient size. The thermodilution curve is extrapolated according to the Stewart-Hamilton principle to minimize errors in computation. Columbus Instruments. Circle 757.

Log-Logit Probability Plotting

Radioimmunoassay and protein binding analysis require this form of graphic display of results. Paper is available with a probability scale from 1 to 99 percent and in two, three or four logarithmic cycle modes in the 8½ by 11 inch size. In the 11 by 17 inch size, eight logarithmic cycles appear on the one scale. These papers are available in 50-sheet pads. Variable Volumetrics. Circle 763.

Hand-Operated Vacuum Pump

This 19-ounce pump (Fig. 1) will produce a vacuum of at least 686 millimeters of mercury. Its 100-cubic-centimeter stroke displacement permits evacuation of a 700-cubic-centimeter volume in less than 10 seconds. A 500-milliliter flask can be evacuated in only 18 strokes. The device may be adapted to control evacuation, liquid transfer, vacuum filtering, tissue aspiration

and collection, degassing, distillation, freeze drying, and a variety of test procedures. Bel-Art Products, Circle 755.

Allergy Radioimmunoassay

Phadebas RAST is a diagnostic assay for allergen-specific immunoglobulin E antibodies. The test requires a small blood sample and results are available overnight. The combination of case history, RAST results and skin testing yields precise diagnosis. The method involves a paper disk activated with cyanogen bromide and coupled with a specific allergen. When incubated with serum, allergen-specific IgE antibodies bind to the disk-allergen complex. The complex is washed and iodine-125 labeled antibody to IgE is added. Labeled anti-IgE binds to the disk-allergen-IgE complex and excess is removed by washing. Bound radioactivity is counted and results are expressed numerically. Up to 300 tests may be performed in a day. Forty-six different allergen disks are available. Pharmacia Laboratories. Circle 759.

Literature

Laboratory Apparatus Instruments and Equipment is a complete 400-page catalog with more than 1000 items for all lines of laboratory work. Lab-Line Instruments. Circle 746.

Sputtering Modules are listed and their design specifications and applications are recorded in a brochure. Denton Vacuum. Circle 754.

Products for the Hospital and Clinical Laboratory are featured in a 20-page illustrated booklet. Beckman Instruments. Circle 765.

Diagnostic Products are the subject of catalog C-107. Over 300 products are listed; lot analyses are included. J. T. Baker Chemical. Circle 766.

High Performance Liquid Chromatographs are described including a detailed section on design specifications. DuPont Instrument Products. Circle 767.

Program Generation System for Modern Hybrid Computers details ECSSL (excel) that provides for equation-oriented specification of continuous system simulation models and automated set up, check out and operation of hybrid computers. Electronic Associates. Circle 768.

Electric Furnaces are described in product sheets that include illustrations, specifications and suggested applications. Bench Scale Equipment. Circle 769.

What's New in Gas Chromatography features supplies for environmental analyses. Analabs. Circle 770.

Personnel Placement

POSITIONS WANTED

Embryologist with large teaching and research experience (numerous publications on developmental genetics of *Xenopus*) seeks academic position. Languages: German, English, French. Box 427, SCIENCE. 10/24, 31

General Physiologist, Ph.D. Continuously funded by NIH since 1963. Interested in wound healing; control of cell proliferation in lens and cornea; radiation cataract. Currently full professor, teaching mainly graduate level. Numerous papers, texts. Seeks responsible position at institution with strong graduate and/or ophthalmological emphasis. Industry not excluded. Box 442, SCIENCE. X

Invertebrate Zoologist, Ph.D., seeks teaching and/or research position to pursue interests on terrestrial invertebrates. Special interest, phylogeny and distribution of nearctic diplopods. Experienced taxonomist. Publications with several aquatic and terrestrial invertebrate groups. Box 424, SCIENCE. X

Plant Geneticist and Breeder, Ph.D. 1974. Research experience with insect resistance. Teaching experience in plant breeding, ornamental and general horticulture, and oleiculture. Seeks postdoctoral research or permanent teaching/research position. Box 1200, Alcorn State University, Lorman, Mississippi 39096. X

Science/Medical Writer, Ph.D., best possible qualifications. Clippings and résumé to prove it. Box 431, SCIENCE. X

Highly qualified, versatile professor of statistics seeks new position. Fifteen years of teaching experience, extensive research, and publications. Dynamic teaching approach. Main areas probability and time series analysis. Experienced in applications to civil engineering, hydrology, demography, clinical trials, communications theory. Box 443, SCIENCE. X

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR OF OCEANOGRAPHY

The Department of Oceanography at Texas A & M University invites applications for appointment to the faculty at the level of assistant or associate professor, with a specialty of geological oceanography. Experience and interests in shallow marine and coastal sedimentation, processes in transport and deposition, sedimentary structures and their relation to environments are required. Demonstrated abilities in both teaching and research are essential. Send curriculum vitae, names of three references, and list of publications to the **Department Head, Department of Oceanography, Texas A & M University, College Station, Texas 77843**. *An Equal Opportunity/Affirmative Action Employer*

ASSOCIATE CHIEF OF STAFF FOR RESEARCH—TUCSON VA HOSPITAL. This position has become available. Candidates must be physicians with a strong research record and capable of qualifying for appropriate faculty rank in the affiliated University of Arizona College of Medicine. Incumbent administers research programs of 35 investigators with total annual funding of more than \$600,000. Apply to **Henry A. Perlmutter, M.D., Chief of Staff, VA Hospital, Tucson, Ariz. 85723**. *Tucson VA Hospital is an Equal Opportunity Employer.*

ASSISTANT AND ASSOCIATE INHALATION RESEARCH TOXICOLOGISTS

Required at the Toxic Hazards Research Laboratory in Dayton, Ohio.

Both positions require minimum of B.S. degree in biological sciences or chemistry. Assistant must have 2 years, and associate 5 years of experience in applied toxicology or equivalent.

Starting salary—\$1128 and \$1371 per month, respectively.

Send résumé to: **Mrs. Lois A. Doncaster, University of California, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431**. *Affirmative Action Employer—minorities and women are encouraged to apply.*

POSITIONS OPEN

The Department of Biology, Harvard University, has openings for nontenured **ASSISTANT PROFESSORS** for the forthcoming year. The program in cellular and developmental biology invites applicants in the broad area of control of eukaryotic gene expression (for example, including developmental genetics, endocrinology, and so forth), and in the area of neurobiology. The program in organismic and evolutionary biology invites applicants in the systematics of marine ichthyology. Preference will be given to candidates with records of research accomplishments, postdoctoral training, and teaching experience.

The University is an Equal Opportunity Employer; women and members of minority groups are specifically encouraged to apply. Please have three professional persons who are well acquainted with your work write directly to us concerning you and send your résumé, outline of research goals, and copies of your most significant publications, to the **Chairman of the Appropriate Search Committee, Department of Biology, 16 Divinity Avenue, Cambridge, Mass. 02138**, prior to 15 November.

UNIVERSITY OF CALIFORNIA, BERKELEY DEPARTMENT OF CITY AND REGIONAL PLANNING

ASSISTANT PROFESSOR. Specialization in planning process and theory, and in urban development. To teach in the master's and Ph.D. programs and to guide advanced doctoral students. We are looking for the most promising young candidates with prospects of distinguished accomplishment as teachers, researchers, and practitioners. Especially important are a wide ranging, critical perception of intellectual developments relevant to planning and the ability to focus theory in concrete situations. Qualifications: Ph.D. degree; significant research and writing; high teaching ability. Nine-month salary basis. *Minorities and women are especially encouraged to apply.* Contact **Michael B. Teitz, Chairman, Search Committee, Department of City and Regional Planning, University of California, Berkeley, California 94720**, by 15 December 1975.

ASSISTANT PROFESSORSHIPS IN ANIMAL VIROLOGY, CELLULAR IMMUNOLOGY, PHYSIOLOGICAL ECOLOGY, AND DEVELOPMENTAL BIOLOGY

A rapidly growing, well-equipped modern department of biological sciences located in the hills outside Baltimore is seeking scientists with postdoctoral research experience who have demonstrated their ability to initiate vigorous research programs. Candidates must also have a commitment to quality graduate and undergraduate teaching. Appointments are contingent upon availability of state funds. Submit curriculum vitae, bibliography, names of suggested referees, and a description of research interests to: **Dr. Thomas F. Roth, Chairman, Search Committee, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228**. *An Equal Opportunity/Affirmative Action Employer.*

BIOCHEMIST—TISSUE CULTURE

Research position for Ph.D. biochemist with extensive experience in culture of mammalian cells. Position involves full-time research on methods for long-term culture of mammalian cells, and their biochemical characterization. In addition, the candidate will be required to participate in implantation of islets of Langerhans, obtained either from adult donors or from cultured cells. Rank and salary negotiable. Send applications with curriculum vitae to **Daniel H. Mintz, M.D., Chief, Division of Endocrinology and Metabolism, University of Miami School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152**. *An Equal Opportunity Employer.*

BIOLOGICAL OCEANOGRAPHER

Appointment available at Rosenstiel School of Marine and Atmospheric Science, University of Miami, for an aquatic ecologist with some experience in quantitative population or community ecology with particular interest in food chain dynamics and community structure in offshore tropical waters. Responsibilities will include teaching and research both independently and in cooperation with other faculty members. Level of appointment to be assistant or associate professor, commensurate with qualifications. Applications and curriculum vitae should be submitted to

**Chairman—Ecologist Search Committee
Division of Biology and Living Resources
Rosenstiel School of Marine and Atmospheric Science
University of Miami
4600 Rickenbacker Causeway
Miami, Florida 33149**

UNIVERSITY OF MANCHESTER

CHAIR OF LIBERAL STUDIES IN SCIENCE

Applications are invited for the Chair of Liberal Studies in Science which will become vacant on January 1st, 1976 as a result of the appointment of Professor F. R. Jevons to the office of Vice-Chancellor of Deakin University, Australia. The Department of Liberal Studies in Science is concerned with the study of science and technology from the social, economic, historical and philosophical viewpoints. Further details of the Department and the courses which it offers, together with particulars of the appointment, may be obtained from the Registrar. Salary within the professorial range. Superannuable. Applications (2 copies, 1 suitable for photocopying) giving full details of qualifications, experience, research etc. and the names and addresses of three persons to whom reference may be made should be sent to the Registrar, The University, Manchester, M13 9PL as soon as possible. Please quote reference 210/75/.

The ACADEMY FORUM of the NATIONAL ACADEMY OF SCIENCES SERIES in a BICENTENNIAL CONTEXT

The first Forum will be held
on November 11, 1975,
on

SCIENTIFIC THEORIES AND SOCIAL VALUES

In the auditorium of the
National Academy of Sciences
South side of the 2100 block
of C Street, N.W.
Washington, D.C.

9:00 a.m. to 1:00 p.m.

OPEN TO THE PUBLIC

POSITIONS OPEN

ASSISTANT PROFESSOR, INORGANIC CHEMISTRY—Ph.D. in chemistry with postdoctoral experience preferred. Excellence in teaching at the undergraduate and graduate levels is essential. Applicants should have an innovative research program in synthetic transition metal chemistry or synthetic organo-transition metal chemistry. Résumé and three confidential letters of reference should be sent to **Chairman, Inorganic Search Committee, Department of Chemistry, State University of New York at Buffalo, Buffalo, N.Y. 14214. The University is an Equal Opportunity/Affirmative Action Employer.**

CELL BIOLOGIST— ELECTRON MICROSCOPIST

Opening at assistant professor level anticipated for fall 1976. Duties include teaching and research and overseeing a well-equipped EM facility having a service function. Appointment on 9-month basis and salary negotiable. Special consideration given to persons interested in membrane structure and function or in structure and function of the nervous system, particularly insofar as drug effects are concerned. Send curriculum vitae and three letters of reference to **Dr. Paul R. Burton, Chairman, Department of Physiology and Cell Biology, University of Kansas, Lawrence, Kans. 66045. An Equal Opportunity/Affirmative Action Employer**

CHAIRMAN, DEPARTMENT OF BIOLOGY UNIVERSITY OF WINNIPEG

The Department of Biology is seeking a chairman. At present the Department consists of nine faculty members, plus instructors and technical staff engaged in undergraduate teaching. Both 3- and 4-year degrees are offered. Rank and salary are dependent upon qualifications, which must include a Ph.D. plus research and teaching experience. Administrative experience would be an asset but is not essential. Specialization in cell biology, developmental biology, or plant ecology is preferred, but specialists in other areas are also invited to apply. Applications from well-qualified Canadians will be particularly welcomed. Letters of application, including curriculum vitae and the names and addresses of at least three referees, should be sent to **G. E. E. Moodie, Department of Biology, University of Winnipeg, 515 Portage Avenue, Winnipeg, Manitoba, Canada R3B 2E9.**

DEAN OF THE FACULTY: Applications and nominations invited for senior administrative position with responsibility for all aspects of the educational program. Emphasis is placed on strong academic background, good teaching experience, professional recognition, and commitment to undergraduate education in the liberal arts tradition. Matters of academic discipline, institutional affiliations, sex, age, salary, and specific experience are open. *An Affirmative Action/Equal Opportunity Employer.* Full résumés should be sent to **Advisory Committee on Dean Selection, Office of the President, Occidental College, Los Angeles, California 90041, prior to 1 November 1975.**

DEVELOPMENTAL BIOLOGIST. Our Department has an opening for a developmental biologist, assistant to full professor, to begin in 1976. We are especially seeking an individual whose research is concerned with eukaryotes at the cell-molecular levels. Excellence is the primary consideration; commitments to research, graduate training, and classroom teaching are essential. Candidates should request referees to write, and send an outline of their experience and proposed research to: **Dr. Andrew G. Szent-Györgyi, Chairman, Department of Biology, Brandeis University, Waltham, Mass. 02154.** Applications should be sent promptly to assure consideration. *An Affirmative Action/Equal Opportunity Employer*

EVOLUTIONARY BIOLOGIST: Rank open. Qualifications: Established research reputation in evolutionary processes in populations and communities, ecological genetics, or behavioral ecology. Duties involve graduate and undergraduate teaching (including comparative vertebrate zoology) and research. Salary negotiable depending upon qualifications.

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE: Microbiologist or biochemist with interest in polysaccharide chemistry, ultrastructure or cell regulation mechanisms for research on prokaryotic developmental systems (Myxobacteria and bluegreens). Salary \$8500 and possible teaching supplement. Curriculum vitae, reprints, and names of three referees for either position should be sent to: **Dr. H. D. McCurdy, Head, Department of Biology, University of Windsor, Windsor, Ontario, Canada N9B 3P4.**

POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF PSYCHOLOGY, INDIANA UNIVERSITY— PURDUE UNIVERSITY AT INDIANAPOLIS

Applications are invited for a Chairperson of the Department of Psychology in the School of Science at Indiana University—Purdue University at Indianapolis. The School of Science is composed of the Departments of Biology, Chemistry, Geology, Mathematical Sciences, Physics, and Psychology. Indiana University—Purdue University at Indianapolis is a growing urban university with a faculty of 1,100 and an enrollment of more than 20,000 students.

The Department of Psychology offers B.A. and B.S. degrees (with approximately 400 undergraduate majors) and the M.S. degree in personnel and industrial psychology and the M.S. degree in vocational rehabilitation counseling (with approximately 75 graduate students). The Department is composed of 20 full-time faculty members and 30 part-time faculty members. Approximately 3600 students are enrolled in psychology courses per semester.

An applicant should hold a Ph.D. in psychology, should have an established reputation, and should have demonstrated achievement in teaching, research, and organizational leadership. Responsibilities will include the continued development of undergraduate programs, the development of research and additional graduate programs, and the interfacing of such programs with programs in other academic units.

Salary: Competitive and commensurate with experience.

Employment date: 1 July 1976.

Application deadline: 15 December 1975 (applicants should arrange to have three letters of reference and academic transcripts sent).

Apply to: **Dr. Peter Loh, Chairman, Search and Screen Committee, Indiana University—Purdue University at Indianapolis, 1201 E. 38th Street, Indianapolis, Indiana 46205. Indiana University—Purdue University at Indianapolis is an Equal Opportunity/Affirmative Action Employer.**

DIRECTOR, PRIMATE RESEARCH CENTER

Recommendations and applications are invited for the position of Director of the New England Regional Primate Research Center. Seeking a biomedical scientist with qualities of leadership, effective in a multidisciplinary research environment. Salary and joint appointments negotiable. Send curriculum vitae, recommendations, and bibliography to: **Dr. T. C. Jones, Harvard Medical School, New England Regional Primate Research Center, Southborough, Mass. 01772. An Equal Opportunity/Affirmative Action Employer**

DIRECTOR OF COMPUTER CENTER OREGON STATE UNIVERSITY

Oregon State University is seeking applications for the position of Director of the Computer Center effective 1 January 1976, or as soon thereafter as possible.

The director is responsible for directing of research and service activities of approximately 65 employees. The Center operates a CDC CYBER 73 and a CDC 3300 as well as several smaller computers and serves the entire campus, including state-wide agencies with a full range of computing services. Qualifications should include previous experience as director or assistant director of a major computer center or related activities. A Ph.D. degree is preferred. *Oregon State University is an Equal Opportunity Employer; women and members of minority groups are encouraged to apply.*

Applicants should submit their résumés and at least two letters of reference by 15 November to:

**Dr. Lyle D. Calvin, Chairman
Search Committee for Computer Center Director
Department of Statistics
Oregon State University
Corvallis, Ore. 97331**

Oregon State University is an Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL BIOLOGISTS

International consulting firm specializing in the development of water resources invites applications from environmental biologists for its Department of Environmental and Recreational Studies.

Applicants should have training and practical experience, preferably in tropical areas, in the fields of botany/plant ecology or limnology/fisheries. Experience in the preparation of environmental impact and assessment reports desired. Applicants should have an advanced degree.

Submit résumé in strict confidence with salary requirements to: **P. Saletta, Harza Engineering Company, 150 S. Wacker Drive, Chicago, Illinois 60606.**

An Equal Opportunity Employer

POSITIONS OPEN

DIRECTOR, CENTER FOR AFRO-AMERICAN STUDIES: UCLA invites applications for the position of Director of the Center for Afro-American Studies. The Center, established 6 years ago, is one of a number of organized research units on the campus. The Director will have a regular faculty appointment in an appropriate department or school and will divide his/her time between regular faculty and administrative responsibilities. Academic qualifications for appointment as associate professor or professor, demonstrated capacity for administrative leadership, and research experience in the social sciences required.

Send curriculum vitae with names of four references and a letter detailing qualifications by 15 November to: Ms. Claudia Mitchell-Kernan, Chairperson, Search Committee, Center for Afro-American Studies, 3105 Campbell Hall, University of California, Los Angeles, Calif. 90024. *UCLA is an Equal Opportunity Employer, committed to Affirmative Action.*

EXPERIMENTAL PATHOLOGIST. Requirements: M.D. or D.V.M., and Ph.D.; U.S. citizen; experience in rodent pathology and carcinogenesis; pathology Board eligibility; ACVP certification desirable. Rank and salary determined by qualifications/experience. Send résumé and three references to Project Director, University of Arkansas Pathology Services Project, National Center for Toxicological Research, Jefferson, Arkansas 72079. *Equal Opportunity Employer.*

The Department of Radiological Sciences of the University of California, College of Medicine at Irvine invites applications for the following positions:

CHIEF OF THE DIVISION OF URORADIOLOGY. This appointment will be at professorial level. Candidates for this position must have extensive experience in the subspecialty of uroradiology and should be able to provide documented evidence of original contributions to the field, an extensive bibliography, and evidence of research expertise. The duties of this position will include responsibility for the interpretation of all uroradiologic examinations and for consultation with other physicians; maintenance and development of sophisticated teaching programs in uroradiology at undergraduate, graduate, and postgraduate levels; the development of a fellowship program; and institution of both basic and applied research protocols in the field of uroradiology.

CHIEF OF ANGIOGRAPHIC SERVICES. This appointment will be at the senior assistant or associate professor level. In addition to competence in general radiology, candidates must have specialized training and extensive experience in angiography and must be well versed in the latest superselective catheterization techniques—in the use of sophisticated imaging methodology (including magnification) and in the use of "interventional" (therapeutic) angiography. The successful candidate must have a bibliography which documents original contributions to the field and superior abilities as a researcher. The duties of this position include responsibility for the clinical angiographic service, including the carrying out and interpretation of angiographic procedures and consultation; developing a teaching program of advanced level for graduate and postgraduate students; initiating basic and applied research protocols; and developing a fellowship program in angiography. The candidate should be willing to engage in collaborative ongoing research in medical imaging with the Departments of Engineering and Physics and previous experience in training in engineering or electronics would be an asset.

DIAGNOSTIC RADIOLOGY. Candidates must be qualified radiologists with demonstrated evidence of clinical and academic ability and must have a specific interest in emergency and trauma radiology. The appointment will be at assistant professorial level and the duties will include direction of the emergency radiological service, film-reporting, and teaching at both graduate and undergraduate levels. The successful candidate will be expected to engage in research and preference will be given to persons with proven research ability.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Interested qualified persons should apply to the address below including a curriculum vitae, an autobiographical letter, and copies of reprints within the last 5 years.

Eric N. C. Milne, M.D., F.R.C.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92664

POSITIONS OPEN

DIRECTOR, PHARMACOLOGY DEPARTMENT

at
Nihon-Schering Research Laboratories
in Osaka, Japan

Attractive opportunity for senior scientist with a broad background in research and a doctorate degree in pharmacology or in a related discipline to head our new Department of Pharmacology. Candidates should have administrative experience and be able to speak English or German. Research programs at Nihon-Schering include anti-inflammatory, cardiovascular, CNS, and endocrine drugs. Previous experience in a European or U.S. laboratory would be considered an advantage.

Send résumé to: Dr. Hans-Joachim Glotz, Director of Research and Development, Nihon-Schering K.K., 6-64 Nishimiyahara 2-chome, Yodogawa-Ku, (532) Osaka, Japan.

EVOLUTIONARY BEHAVIORIST

The University of Texas at Austin has an opening for an assistant professor interested in behavioral studies at the population whole organismal level. Preference will be given to workers with interest in field studies and experimentation, and with a strong theoretical background. Research-oriented department requires capability in graduate and undergraduate teaching and of developing graduate research program. Send curriculum vitae, reprints of publications, statement of research interest, and names of three references to Chairman, Department of Zoology, University of Texas, Austin, Texas 78712.

An Equal Opportunity/Affirmative Action Employer

Applications are invited for two faculty positions, one in the Department of Biophysics and the other in the Department of Physiology, both nominally at the assistant professor level. We are seeking candidates in the areas of ion transport or electrical excitation in natural or model membranes or in basic synaptic processes. Applicants should have demonstrated research productivity and show ability to build a strong independent research program. Candidates should send a curriculum vitae, a brief outline of current and proposed research, and the names of three referees to L. Goldman, Search Committee, Department of Physiology, School of Medicine, University of Maryland, Baltimore, Maryland 21201. *An Equal Opportunity/Affirmative Action Employer.*

HYDROLOGIST OR HYDROGEOLOGIST—Ph.D. with experience preferred in technical evaluation of groundwater problems including analysis of environmental impact of well fields, mining operations, and urban development. Will also review staff hydrological studies and serve in a technical advisory capacity.

HYDROLOGIST OR ENGINEER—Prefer person with knowledge of U.S. Geological Survey (USGS) or other governmental operations to act as liaison between the District and USGS. Duties would include constant communication and coordination of District project timetables, billings, and procedures.

These challenging positions offer unlimited opportunities for professional growth while enjoying all the benefits of living in Florida, not the least of which is a mild year-round climate. We offer all the advantages of living and working in a suburban community with easy access to the large Suncoast Metropolitan area just minutes away. Salaries commensurate with experience; excellent benefit package. Mail résumés to the Southwest Florida Water Management District, P.O. Box 457, Brooksville, Florida 33512, Attention: Personnel; or Telephone 904-796-7211, extension 1231, for further information. *Equal Employment Opportunity.*

HEAD SCIENCE AND ENGINEERING LIBRARIAN: Administers operations of 150,000-volume library and staff of 20. Includes managing, personnel, collection development, reference, and planning.

Qualifications: AMLS, 5 years of public service experience are required and science or engineering degree is desirable.

Salary: \$18,000 negotiable.

Contact

Ms. M. E. State
University Libraries' Personnel Office
State University of New York at Buffalo
308 Lockwood Memorial Library
Buffalo, New York 14214

An Equal Opportunity/Affirmative Action Employer

INDUSTRIAL ENVIRONMENTAL TOXICOLOGIST

San Francisco Bay Area



Stanford Research Institute's Center for Occupational and Environmental Safety and Health is seeking an Industrial Environmental Toxicologist to participate in its activities in contract research and consulting research and consulting services for government and commercial clients.

Initial assignments will be associated with the Center's activities in the preparation of NIOSH criteria documents for recommended occupational health standards in SRI's Washington, D.C. office; and in support of a contract with the National Cancer Institute in Environmental Carcinogenesis in SRI's main office at Menlo Park, California. Successful applicants will have solid background in inhalation toxicology and the toxicological aspects of Industrial Hygiene.

Emphasis will be given in evaluating applicants for their ability to critically review the biomedical literature and develop statements to support proposed standards. Previous experience is desirable but can be substituted by unusually strong academic background.



Send resume in confidence to:

STANFORD RESEARCH INSTITUTE

Center for Occupational and
Environmental Safety and Health
333 Ravenswood Avenue
Menlo Park, CA 94025

SRI is an equal opportunity employer

POSITIONS OPEN

FACULTY POSITION IN QUANTITATIVE POPULATION ECOLOGY. In keeping with our mission of finding solutions to agricultural pest problems, we are seeking a person whose primary responsibility will lie in the area of research in quantitative population ecology. This staff member will be expected to elucidate principles of population dynamics relating to strategies of pest management in field crop ecosystems. The position offers the opportunity for the individual to complement the Department of Entomology's team efforts in ongoing pest management programs, as well as develop a program within his or her own area of interest. Education and training should include experience in the life sciences or agriculture, with a strong quantitative background in modeling, mathematics, statistics, and theory of population dynamics. Salary and rank will be commensurate with education and experience.

Applicants for this position should submit a complete résumé, six references, and request three letters of recommendation be sent to **Dr. Eldon E. Ortman, Head, Department of Entomology, Purdue University, West Lafayette, Indiana 47907**, by 20 November 1975. *Purdue University is an Equal Opportunity Employer.*

Im Institut für Mikrobiologie und Hygiene der Medizinischen Hochschule Hannover ist der Lehrstuhl (AH 4) für

MOLEKULARBIOLOGIE

wieder zu besetzen.

Der Bewerber soll sein Fachgebiet im Rahmen der Aufgaben des Instituts für Mikrobiologie und Hygiene vertreten:

In der Lehre Vorlesungen und Praktika im Klinischen

Teil des Medizinstudiums.

In der Forschung sollen die Schwerpunkte möglichst

in mikrobiologischen Fragestellungen liegen.

Bewerber werden gebeten, Ihre Unterlagen bis zum 15 Januar 1976 an den Senat der Medizinischen Hochschule Hannover, 3 Hannover 61, Karl-Wiechert-Allee 9, zu senden.

Ph.D. DRUG METABOLISM

McNeil Laboratories, an ethical pharmaceutical manufacturer, located in a pleasant suburban Philadelphia, Pa., setting, has a challenging position immediately available in its Drug Disposition Group. This group is responsible for absorption, distribution, biotransformation, and excretion studies in laboratory animals and in man. Most of this research entails the use of radiolabeled drugs.

The immediate responsibilities include bench work and supervision of studies in our drug disposition program. Candidates should possess a Ph.D. degree or equivalent in medicinal or organic chemistry and have experience in compound isolation/identification techniques or a Ph.D. degree in pharmacology or toxicology with drug metabolism experience.

The successful candidate will receive excellent starting salary, working conditions, and fringe benefits. Send résumé with salary requirements to:

PATRICK J. WHEELER
Employment Manager

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Laboratories, Inc.
Fort Washington, Pa. 19034

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POSITIONS OPEN

GEOCHEMISTRY

The University of Western Ontario, London, Canada, has a position at the assistant professor level for geochemist as of 1 July 1976. The applicant must be a Ph.D. with experience in x-r-f and atomic absorption techniques of analysis and must have experience with mass spectrometers. Teaching duties will be in geochemistry and mineralogy.

Applicants should send a curriculum vitae and the names of three referees to **W. S. Fyfe, Chairman, Department of Geology, University of Western Ontario, London, Ontario, Canada N6A 5B7**. The closing date for applications is 1 December 1975.

DEPARTMENT HEAD: Nominations and applications are invited for head of Ph.D.-granting Department of Chemistry. Teaching experience and proved research ability as well as earned doctorate. Appointment will be at rank of full professor with salary and teaching load negotiable. *Equal Opportunity Employer.* Send résumé and references to:

H. David Lipsich, Chairman
Search Committee
Office of the Dean
McMicken College of Arts and Sciences
University of Cincinnati
Cincinnati, Ohio 45221

PHARMACOLOGIST

Two positions open in the Department of Pharmacology in the newly expanded School of Medicine at East Carolina University. One position is at the professor-associate professor level and the other at the assistant professor level. Teaching experience and research accomplishments necessary. Applicants should submit curriculum vitae and other supporting documents preferably by 15 December 1975 to **Chairman, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, North Carolina 27834**.

Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION

Recent Ph.D. in biochemistry (nonmammalian), available immediately to U.S. citizens or permanent residents. \$10,000 tax-free. Send curriculum vitae, including two letters of reference, to: **Dr. M. Agosin, Department of Zoology, University of Georgia, Athens, Georgia 30602**.

POSTDOCTORAL POSITIONS

The College of Medicine of the University of Iowa seeks **POSTDOCTORAL CANDIDATES** in training programs supported by Institutional National Research Service Awards:

1) **Molecular Biology of Tumor Cells.** Areas of interest are cell transformation, membrane function, information transfer to the nucleus, structure of replicative chromosome, cell metabolism, and chemotherapy.

2) **Cancer Epidemiology.** Fellowships for interdisciplinary training in a program of the Iowa Cancer Epidemiology Research Center and State Cancer Registry.

3) **Biomedical Radiation Research.** Offers opportunities for biologists, chemists, and physicists to make an interdisciplinary approach to the study of radiation injury and repair, cell kinetics, carcinogenesis, and the basic and chemical uses of radioisotopes.

4) **Cardiovascular Training Program.** Fellowships for interdisciplinary research training in many areas related to cardiovascular disease.

5) **Research Training in Bone Diseases.** Fellowships for those planning research careers studying the musculoskeletal system: (i) biochemistry of proteoglycans and collagen and (ii) ultrastructure of bone and related tissues.

6) **Training Program in Diabetes and Endocrinology.** Areas of interest are mechanism of hormone action, experimental and clinical diabetes, hormonal regulation of cell duplication, reproduction endocrinology, and epidemiology of breast cancer.

Fellowships are available immediately and also beginning 1 July 1976. Candidates must hold an M.D., D.O., or Ph.D. degree and be U.S. citizens, noncitizen nationals, or have been admitted to the United States for permanent residence and have a permanent visa. If you have an interest in further training in any of the areas outlined above, please send a complete résumé and statement of career goals to: **Rex Montgomery, D.Sc., Associate Dean for Academic Affairs, College of Medicine, University of Iowa, Iowa City, Iowa 52242**. *We are an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION

Immediate opening for a recent Ph.D. in biochemistry, with experience in lipids and enzymology, to work on cell surface function of glycosphingolipids and on lysosomal enzymes of glycosphingolipid metabolism. Salary negotiable. Send curriculum vitae and three references to **Charles C. Sweeley, Department of Biochemistry, Michigan State University, East Lansing, Michigan 48824**.

An Equal Opportunity Employer

POSTDOCTORAL POSITIONS

Department of Biochemistry, Rice University, announces the immediate availability of several postdoctoral positions. Previous experience in the fields of enzymology, particularly of membrane-bound and/or electron transfer enzymes, or cell culture is an advantage.

Prospective candidates should submit résumés together with the names of three individuals familiar with their research accomplishments to: **Department of Biochemistry, Rice University, Houston, Texas 77001**.

Rice University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available for 1 to 2 years for research on streptococcal antigens. Applicants should have strong background in immunology and biochemistry. For further information, send résumé to **Dr. Eugene N. Fox, La Rabida University of Chicago Institute, Chicago, Illinois 60649**.

POSTDOCTORAL, RESEARCH ASSOCIATE. Available for Ph.D. in biochemistry or microbiology to study the biochemistry of bacterial spore germination. Send curriculum vitae and references to **Dr. James C. Vary, Department of Biochemistry, University of Illinois at the Medical Center, Chicago, Ill. 60612**. *The University of Illinois is an Equal Opportunity, Affirmative Action employer and encourages applications from women and minorities.*

POSTDOCTORAL RESEARCH POSITION

Position available immediately involving studies on immunological aspects of experimental and human solid tumors. Experience in cellular immunology required. Send letter indicating research interest and curriculum vitae with three references to: **Dr. George Sorenson, Department of Pathology, Dartmouth Medical School, Hanover, New Hampshire 03755**. *Equal Opportunity/Affirmative Action Employer.*

Postdoctoral Training in Human Genetics and in Tumor Immunology now available at Duke Medical Center. Apply to **Dr. D. B. Amos, Box 3010, Duke Medical Center, Durham, N.C. 27710**.

PROFESSOR AND CHAIRMAN DEPARTMENT OF ANATOMY

A vacancy now exists for the post of Chairman, Department of Anatomy in the Faculty of Medicine. Applicants should have advanced academic and professional qualifications, M.D. and/or Ph.D. or equivalent, preferably with experience in teaching and research. The Chairman will be expected to teach in the medical and related faculties and to administer the department. Salary is negotiable. Applications, including curriculum vitae and references, should be submitted as soon as possible to **Dr. G. F. Whitmore, Faculty of Medicine, Medical Sciences Building, University of Toronto, Toronto, Ontario, Canada M5S 1A8**.

The Department of Psychology at Indiana University, Bloomington, has two openings for a new or recent Ph.D. One position is in **DEVELOPMENTAL PSYCHOLOGY** and the other is in **CLINICAL PSYCHOLOGY**. Applicants would be expected to teach at both the undergraduate and graduate levels and to carry out and supervise research. Applicants are requested to indicate prominently in their letters of application which of the positions they are seeking. Please send curriculum vitae and a list of at least three references to: **Dr. Irving J. Saltzman, Chairman, Department of Psychology, Indiana University, Bloomington, Indiana 47401**. *Indiana University is an Equal Opportunity Employer.*

POSITIONS OPEN

The Biophysics and Bioengineering Programs at the University of Illinois Urbana-Champaign announce **PRE- AND POSTDOCTORAL TRAINEESHIPS** in the area of radiation oncology. Ongoing related research includes: (i) radiation biology with emphasis on investigation of repair mechanisms; (ii) ultrasound instrumentation and biological effects; (iii) personnel protection, including problems of high LET radiations; (iv) biothermal and microwave studies; and (v) nuclear medicine and image processing. It is desirable, but not necessary, that predoctoral applicants have some graduate experience. In addition, applicants should have good backgrounds in physical and/or engineering science, should be desirous of at least temporary employment in education or public service, and should be U.S. citizens, or equivalent.

The University of Illinois is an Equal Opportunity/Affirmative Action Employer and encourages applications from qualified minorities and women. Interested persons should contact: **Dr. Arthur Chilton, 207 Nuclear Engineering Laboratory, University of Illinois, Urbana, Ill. 61801. Telephone: 217-333-2295.**

RESEARCH—Basic experimental research position lasting 1 or 2 years immediately available for a postdoctoral fellow (Ph.D. or M.D.). Experience or background necessary in inflammatory disease for studies in ophthalmic immunology, Philadelphia area. Send résumé to: E-92, P.O. Box 2069, Philadelphia, Pa. 19103.

RESEARCH ASSOCIATE AND ADJUNCT PROFESSOR PHYSIOLOGY AND BIOPHYSICS

Position involves development of computerized model of respiratory system using system analysis and known mathematical relationships. Model to be used in development of learning, teaching, and auditing tool for problem-solving in respiratory physiology. Ph.D. in physiology and biophysics and preferably postdoctoral experience in respiratory physiology. Extensive experience in computer simulation of physiological systems. Immediate opening. Send résumé to **Box 24G, Waterman Building, University of Vermont, Burlington, Vermont 05401. An Affirmative Action Employer**

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Applications are invited for posts of **RESEARCH ASSOCIATES** and/or **POSTDOCTORAL APPOINTMENTS** in our Institute of Molecular Genetics. Applicants should be holders of a Ph.D. in microbiology, in genetics, or in virology. Preference will be given to persons having sound biochemical background with experience in nucleic acid characterization (hybridization, electron microscopy, and so forth).

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Applications, including curriculum vitae, a list of publications, and the names of two referees, should be sent to:

Dr. H. H. Prell, Abt. f. Molekulare Genetik der Gesellschaft für Strahlen- und Umweltforschung, 3400 Göttingen, Grisebachstr. 8, Federal Republic of Germany.

ULSTER COUNTY COMMUNITY COLLEGE STONE RIDGE, N.Y. 12484

Teaching Vacancy: Water Quality Monitoring Training, Master's Degree in chemistry, water, or wastewater technology preferred. Full-time, effective January 1976. Teaching of analytical instruments and tests for the National Pollution Discharge Elimination System; developing instructional materials and sequences, using behavioral objectives, and the development of audiovisual modules to implement the Water Quality Monitoring Surveillance programs.

Rank and salary dependent on qualifications.

Applications must be received by 1 November 1975. Apply: **Richard B. Glazer, Project Director.**

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POSITIONS OPEN

POSITIONS FOR RESEARCH PHYSICIANS with training in nuclear medicine, endocrinology, or hematology, at Donner Laboratory, Lawrence Berkeley Laboratory, University of California. California medical license needed. Clinical responsibility and medical school or hospital affiliations optional. Send résumé to **James L. Born, M.D., or Thomas F. Budinger, M.D., Ph.D., 467 Donner Laboratory, Lawrence Berkeley Laboratory, University of California, Berkeley, California 94720. An Equal Opportunity Employer.**

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The Vice President and Dean of Faculties is the chief academic officer responsible to the President for the conduct of all academic programs. The University of Houston is a major state university currently enrolling more than 30,000 students in 13 colleges. This position requires appropriate academic credentials, proven administrative and leadership abilities, and a deep commitment to goals of scholarship and excellence in higher education.

Please send information by 15 November 1975, to **Search Committee for Vice President and Dean of Faculties, University of Houston, Houston, Texas 77004.**

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VIROLOGIST, research oriented, to contribute to the doctoral program in life sciences and offer undergraduate/graduate course in general virology. Excellent facilities provided, rank and salary open, preference given to applicants with established research programs. Send curriculum vitae, list of referees, to: **Dr. C. P. Sword, Department of Life Sciences, Indiana State University, Terre Haute, Ind. 47809.** Applications will be considered until 20 November 1975. *Indiana State University is an Affirmative Action/Equal Opportunity Employer.*

CAREER OPPORTUNITIES

The Squibb Institute for Medical Research has the following attractive opportunities in its Worldwide Headquarters in Princeton, New Jersey.

NEUROCHEMIST: Should have at least 3 years of postdoctoral experience in research involving the pharmacologic alteration of neurotransmitter activity as well as interest in the involvement of cyclic nucleotides in the mediation of the effects of psychoactive drugs.

BEHAVIORAL PHARMACOLOGIST: Two positions available. One requires a B.S. or M.S. degree with some laboratory experience in behavioral pharmacology and the second will be for a postdoctoral fellow having experience and interest in the behavioral indices of aging.

BIOCHEMICAL PHARMACOLOGIST: Postdoctoral fellowship for a Ph.D. in pharmacology, biochemistry, or physiology with experience in the biochemistry of cyclic nucleotides. The position involves studies in vitro and in vivo of the physiologic effects of modification of biochemical parameters in animals.

BIOCHEMICAL ASSISTANT: M.S. in biochemistry or equivalent experience with radioisotopic and fluorometric methods, to study neurotransmitter metabolism in animals.

Qualified candidates should send their curriculum vitae to the **Recruitment and Selection Manager, Department BB, E. R. Squibb & Sons, Inc., P. O. Box 4000, Princeton, New Jersey 08540.**

The following positions are also available in our Diagnostic R & D division in New Brunswick, New Jersey.

RESEARCH INVESTIGATOR: Radiopharmaceutical R & D in vivo organ imaging agents requiring a Ph.D. in pharmacology, physiology, biochemistry with radioisotope experience.

RESEARCH INVESTIGATOR: Radiopharmaceutical process development in vivo organ imaging agents requiring a Ph.D. in pharmaceutical chemistry, radiochemistry, with process engineering experience desirable.

Qualified candidates should forward their curriculum vitae to the **Employment Supervisor, Department GB, E. R. Squibb & Sons, Inc., P. O. Box 4000, Princeton, New Jersey 08540.**

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Applications are invited from American scientists interested in making professional visits during the period September 1976 through August 1977 in the USSR, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, or Yugoslavia. Research visits are 5 to 12 months; a limited number of short-term (1-month) visits are also available. Applicants must be U.S. citizens and have a doctoral degree in the natural or social and behavioral sciences. Deadline for receiving completed applications is 21 November 1975.

PROGRAMS

Ongoing private marine biological facility seeks relationship with educational institution to develop **MARINE SCIENCE PROGRAM**. Northeastern Gulf of Mexico, waterfront location, diverse habitats, docking and animal holding facilities, running seawater. Staff includes well-known naturalist/writer, M.S. in biological oceanography, expert marine collectors. Reply to Box 439, SCIENCE.

SYMPOSIUM

C.B.S.-P.A.A.B.S. Symposium
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The Banff Centre, Banff, Alberta, Canada
14-19 March 1976

Inquiries to: Dr. P. G. Barton, Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada T6G 2H7.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

Applications are invited for the C. H. Best Foundation Postdoctoral Fellowship, and the Home-McEachern Postdoctoral Fellowship, in the Banting and Best Department of Medical Research. The fellowships are tenable on approximately 1 July 1976 for 2 years with a taxable stipend of about \$11,000 for the first year, plus traveling and dependent allowance. The fellowships are available to candidates with less than 2 years of postdoctoral experience. Research interests of the department include molecular biology, differentiation, structure and function of membranes, fat and lipid metabolism, and molecular endocrinology. A list of staff members and their research interests will be sent on request. Applications, complete with curriculum vitae and the names of three references, must be received by 1 February 1976. Please address applications or inquiries to: Dr. C. C. Yip, Banting and Best Department of Medical Research, University of Toronto, Toronto, M5G 1L6, Ontario, Canada.

FELLOWSHIPS FOR STUDY AND/OR RESEARCH AT GRADUATE OR POSTDOCTORAL LEVELS IN 1976-77

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Application

Graduate candidates may apply during their senior academic year, or after they have undertaken study in a graduate school. Postdoctoral candidates may apply at any stage of their professional careers.

All candidates, including Israelis abroad, may obtain application forms from the **Lady Davis Fellowship Trust, P.O. Box 1255, Jerusalem, Israel.**

Completed applications must reach the office of the Trust not later than 1 January 1976.

FELLOWSHIPS

FELLOWSHIPS

The Division of Hematology and the Blood Bank of the Mayo Clinic offer NIH fellowships for postdoctoral research training in the areas of hemostasis and blood banking to qualified applicants holding the M.D., Ph.D., or equivalent degrees. Specific research areas include biochemistry and immunology of the blood coagulation factors, blood group and histocompatibility antigens, platelet and red blood cell biochemistry, physiology and electron microscopy, and preparation and preservation of blood and blood components. For further information, apply to Hemostasis and Blood Bank Research Training Program, Mayo Graduate School of Medicine, Rochester, Minnesota 55901.

A POSTDOCTORAL FELLOWSHIP IN REPRODUCTIVE BIOLOGY

is available. Applicants should be interested in the physiology and biochemistry of mammalian embryos during the preimplantation period. Studies are on the biochemistry of embryo development as well as on micromanipulation of the embryo and embryo cells that alters differentiation. Apply with curriculum vitae to: R. L. Brinster, Laboratory of Reproductive Physiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pennsylvania 19174.

CARDIOVASCULAR PHYSIOLOGY POSTDOCTORAL FELLOWSHIP

Ph.D. or M.D.: To join a research program in blood pressure control or in cardiac electrical activity. Position available immediately. Send curriculum vitae to Dr. Allen M. Scher, Department of Physiology and Biophysics (SJ-40), University of Washington, Seattle, Washington 98195.

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Research Fellowship. National Research Service Award. PATHOLOGY OF MEMBRANES AND ORGANELLES. Positions will involve research on smooth muscle. One position requires an individual with experience in ion transport and basic biochemical techniques for the isolation and fractionation of cell membranes and organelles. The second position, for an electron microscopist, is suitable for an applied physicist with interest and some background in biology. Send curriculum vitae and three references to Dr. Andrew P. Somlyo, Director, Pennsylvania Muscle Institute, Presbyterian-University of Pennsylvania Medical Center, 51 North 39th Street, Philadelphia, Pennsylvania 19104.

POSTDOCTORAL FELLOWSHIP available in (i) control of growth of plasma cell tumors in tissue and organ culture and (ii) effect of tumors on host metabolic processes or immunologic capabilities. Candidates must be familiar with research techniques in area of interest. Stipend range is from \$12,000 to \$14,000 with annual increments. Permanent resident status required. Send complete academic transcript, names of three references, and description of your research interest to: Dr. V. Hollander, Research Institute, Hospital for Joint Diseases and Medical Center, 1919 Madison Avenue, New York, N.Y. 10035. *An Equal Opportunity Employer.*

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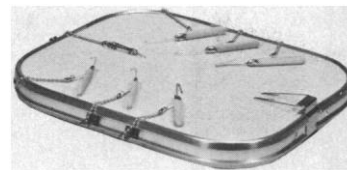
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CHIEF
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National Heart & Lung Institute

The National Institutes of Health, Public Health Service, in Bethesda, Maryland, is recruiting for the Chief of the Devices and Technology Branch, Division of Heart and Vascular Diseases, National Heart and Lung Institute. The position will require the planning, direction and management, with the assistance of a small professional staff, of targeted contract programs and a grants program on devices and instrumentation for cardiovascular therapy and diagnosis. A substantial fraction of current efforts are focused on circulatory assist and artificial heart devices and on noninvasive methods of diagnosing and quantifying atherosclerosis. The position requires substantial experience in biomedical engineering or in medicine/physiology utilizing biomedical engineering. A doctorate in a relevant life or physical science is strongly preferred, but in exceptional cases equivalent experience will suffice. The position also requires demonstrated managerial experience and demonstrated ability to communicate with individuals at all organizational levels and with varying educational experience. The position is at the GS-15/16 level, currently at a salary range of \$29,818 to \$36,000 dependent upon qualifications. The position is also available under the United States Public Health Service Commissioned Corps Program which may provide supplemental salary benefits in some circumstances.

Applicants should contact Bonnie Lau, Personnel Management Branch, National Heart and Lung Institute, by calling collect at 301-496-6477 or mailing a resume to National Institutes of Health, Public Health Service, Building 31, Room 5A-32, 9000 Rockville Pike, Bethesda, Maryland, 20014, by November 15, 1975. A completed U. S. Government Standard Form 171 is required by December 1, 1975.

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Candidates must have obtained their M.D. or Ph.D. degree within the last three years. Duration of fellowships is at least 12 months with the possibility of extension. Financial arrangements depend on age and training of candidates and will be in line with current academic remuneration in Holland.

As English is the official company language, fluency in English is essential. There are no restrictions of age, sex or nationality.

Candidates will be preselected on the basis of their curriculum vitae and two letters by professors of their own choice.

Those interested are requested to apply to Prof. E. Schönbaum, Head Pharmacological Research and Development Laboratories, Organon International B.V., P.O. Box 20, Oss, Netherlands.



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