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Sentence Production. Developments in Research and Theory. Sheldon Rosenberg, Ed. Erlbaum, Hillsdale, N.J., 1977 (distributor, Halsted [Wiley], New York). xii, 324 pp. \$17.95.

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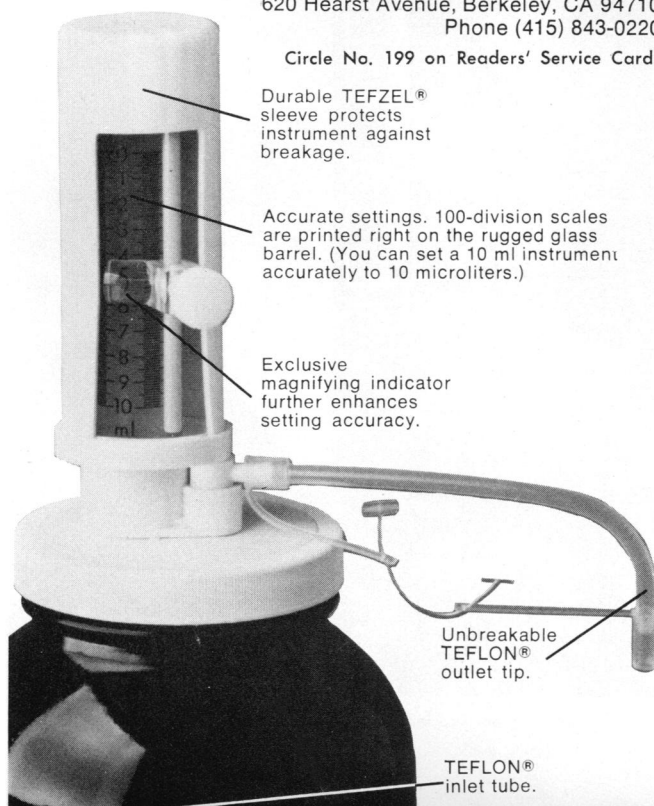
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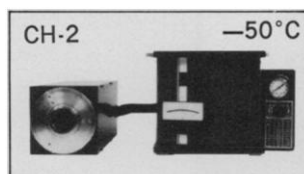
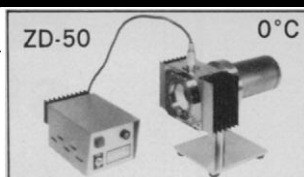
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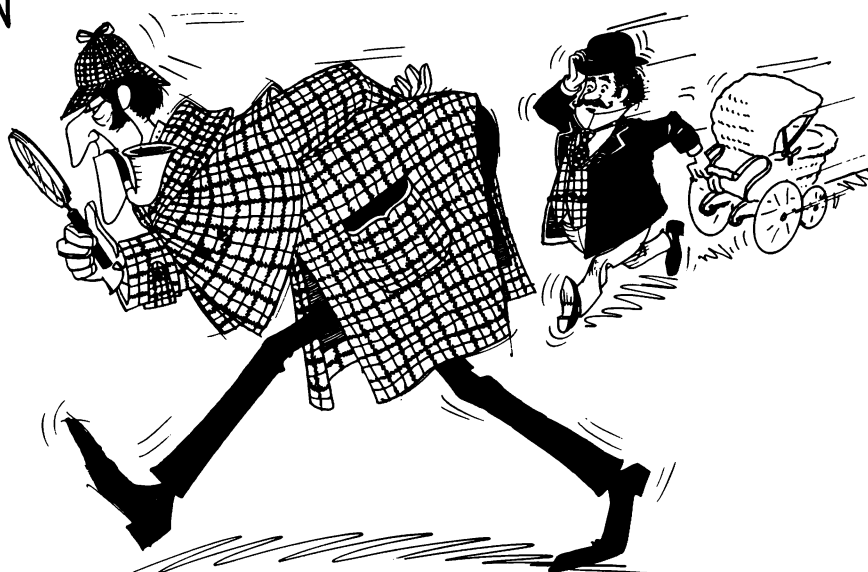
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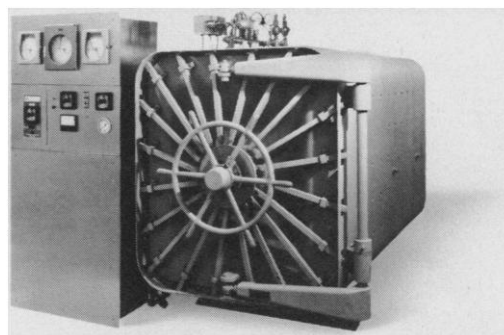
- (1) Kosower *et al.*, BBA, 363 261 (1974)
- (2) Lustig *et al.*, PNAS(US), in press.



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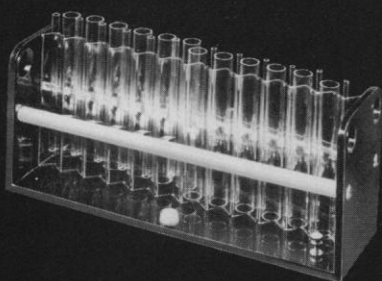
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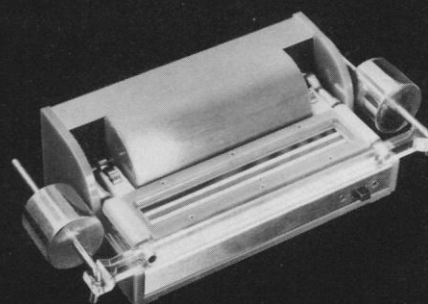
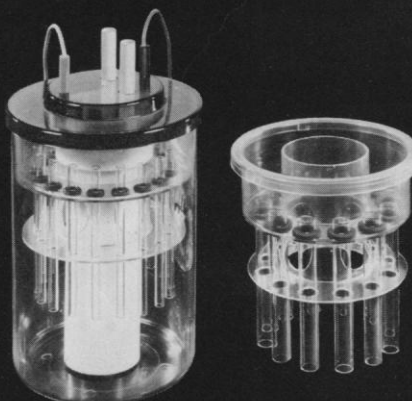


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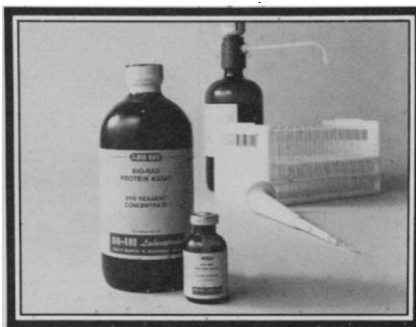
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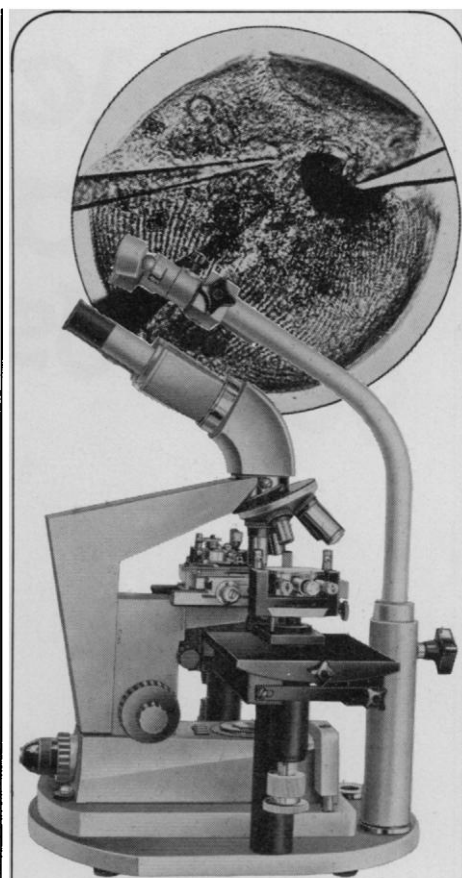
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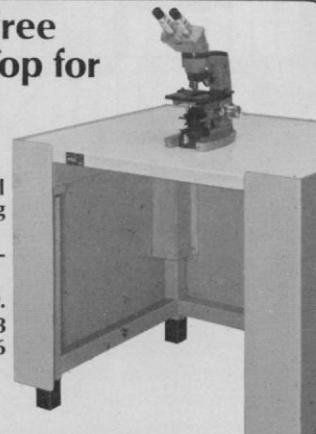
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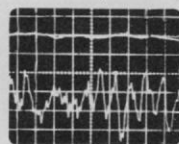
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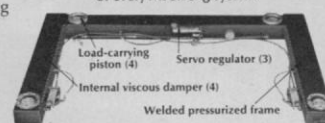
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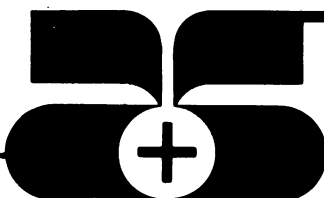
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Microbiologist/Biochemist, Ph.D. 1975. Research experience in protein chemistry and genetics of prokaryotes and eucaryotes. Two years of postdoctoral experience. Has obtained research grant. Publications. Seeking academic, industrial, or governmental position in the Northeast. Box 370, SCIENCE. X

Neurophysiologist/Behavior M.S.; 2 years of experience in primate operant techniques, project administration and management, stereotaxic surgery and recording and electrode implantation. Additional experience in physiology, abdominal and thoracic surgery, respiratory physiology, and cardiovascular physiology. Thesis topic: electrographic evaluation of the neurotoxicity of mirex (analog of kepone). Seeks industrial, academic, or government position. R. E. Stevens, III, P.O. Box 1453, Texarkana, Texas 75501; telephone: 501-772-8998. 10/14, 21, 28

Scientific Writer. Journalism degree (M.S.) and newspaper experience prior to Ph.D. (genetics, 1970). Diverse university research experience in immunogenetics, immunochemistry, and tumor biology. Seeks challenging position in scientific communication and interpretation. Box 372, SCIENCE. X

Virologist, Ph.D. 1974. Broad background in veterinary virus research. Herpesviruses of mammals, birds, reptiles, and fish. Establishment of tissue culture strains and lines. Vaccine and antiviral drug chemotherapy. Can transfer research projects or join established program. Publications. Seeks academic/research, industry, or government position. Box 371, SCIENCE. X

POSITIONS OPEN

ANATOMISTS

Two positions for teaching neuroanatomy and gross anatomy to medical and dental students. Excellent research facilities. Send curriculum vitae and names of three referees to:

Dr. T. V. N. Persaud
Department of Anatomy
Faculty of Medicine
The University of Manitoba
Winnipeg, Canada R3E 0W3

ASSISTANT PROFESSOR: BIOCHEMISTRY

Applications will be received for a tenure-track position in the Department of Biochemistry, available 1 January 1978. Preference will be given to individuals with research interests relating to proteins and/or immunochemistry. Individuals are expected to develop a vigorous independent research program and participate in instruction in medical and graduate biochemistry. Send a complete résumé, an outline of proposed research, and the names of three references to:

Dr. K. Ebner, Chairman
Department of Biochemistry
University of Kansas Medical Center
Kansas City, Kansas 66103
An Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT DIRECTOR

DEPARTMENT OF GRADUATE MEDICAL EDUCATION

Saint Barnabas Medical Center, a member of the Council of Teaching Hospitals of the Association of American Medical Colleges, seeks an Assistant Director for the Department of Graduate Medical Education. Applicants should have a Ph.D. degree with background in administration and education. Saint Barnabas Medical Center is located in a beautiful suburban community, 45 minutes from New York City. For further information, submit curriculum vitae to Abdol H. Islami, M.D.

**Saint Barnabas
Medical Center**
94 Old Short Hills Road
Livingston, N.J. 07039
(201) 533-5500

*Saint Barnabas Medical Center is
An Equal Opportunity Employer*

ASSISTANT PROFESSORSHIP BIOCHEMISTRY AND BIOPHYSICS

The Department of Biophysical Sciences at the University of Houston invites applications for anticipated faculty position at the assistant professor level commencing either spring or fall 1978. Candidates with postdoctoral experience and recognized scientific accomplishments are sought. Individuals with strong background in biochemistry or biophysics primarily interested in molecular and cellular basis of development are encouraged to apply. The faculty member will be expected to establish an independent research program of outstanding quality and to participate in the undergraduate and graduate instruction of the department. Will also be responsible for upgrading of the departmental cell culture facility. Send a curriculum vitae, a summary of research and teaching goals, copies of publications, and names of three references to: **Dr. Joseph Eichberg, Chairman, Faculty Search Committee, Department of Biophysical Sciences, University of Houston, Houston, Texas 77004. An Equal Opportunity Employer.**

ASSISTANT OR ASSOCIATE PROFESSOR OF BIOLOGY: small, private, liberal arts and sciences college has immediate opening for January 1978 to teach: vertebrate anatomy, physiology, embryology, histology, and endocrinology to preprofessional undergraduate students. Ph.D. is required, with limited opportunity for research; salary competitive. Send résumé, graduate transcripts, and three letters of recommendation to: **Dean of Faculty, Illinois Benedictine College, 5700 College Road, Lisle, Illinois 60532. Illinois Benedictine College is an Equal Opportunity Employer and Educator.**

DEPARTMENT OF CHEMISTRY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited for several anticipated positions at the level of **ASSISTANT PROFESSOR OF CHEMISTRY**, beginning fall 1978. We are interested in outstanding candidates, with exceptional promise in teaching and research, whose interests lie in any area of modern chemistry.

Candidates should submit a curriculum vitae (including a list of publications and a summary of their teaching and research objectives), and request three letters of reference, all to be sent to: **the Chairman, Department of Chemistry, University of California, Berkeley, Calif. 94720.** Deadline for receipt of applications is 1 January 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

 National Research Council Canada
Conseil national de recherches Canada

1978 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 for an additional term are considered annually. The tenure 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: **the Research Associates Office, National Research Council of Canada, Ottawa, Canada, K1A 0R6.**

Closing date: 15 January 1978.

YEAST SPECIALIST

The Adolph Coors Company, the world's largest individual brewery, is seeking a biochemist, microbiologist, or biochemical engineer with a strong background in yeast physiology to conduct applied research in brewery yeast technology. An M.S. or Ph.D. with 2 to 5 years of experience in yeast metabolism and fermentation is required. You'll like our suburban location just 15 miles west of Denver in the foothills of the Rockies. Relocation paid. We offer an excellent salary/benefit package. Send résumé, including salary history, to: Manager, Recruitment and Selection

**Coors
INDUSTRIES**
Employment Center

1221 Ford Street
Golden, Colorado 80401

*An Equal Opportunity Employer, M/F
Strike Conditions Exist for the Adolph Coors
Company*

POSITIONS OPEN

ASSISTANT PROFESSOR, IN-RESIDENCE

The University of California, Irvine, Department of Pathology is recruiting for a faculty position at the assistant professor level. Required: M.D., board eligible in anatomic pathology, service experience in surgical pathology and hematopathology, documented independent research. Duties: surgical pathology service, teach medical students and house-staff, research, limited administrative responsibility. *All qualified candidates welcome: minorities and women encouraged to apply.* Send curriculum vitae and references to: **Dr. Edward R. Aquilla, University of California, Irvine, Department of Pathology, Irvine, Calif. 92717** by 15 October 1977.

WEST VIRGINIA UNIVERSITY SCHOOL OF MEDICINE

ASSISTANT PROFESSOR OF PHYSIOLOGY. Two tenure-track positions available beginning spring 1978. Candidates must have doctoral degree, postdoctoral experience, and be able to develop independent research program. Cardiovascular and renal areas preferred. Responsibilities include teaching of graduate, medical, and other health science students.

POSTDOCTORAL RESEARCH ASSOCIATE. One position available immediately for research in neuroendocrine regulation of ACTH and TSH secretion. Send curriculum vitae, brief description of research interests, and names of three references to: **George A. Hedge, Chairman, Department of Physiology and Biophysics, West Virginia University Medical Center, Morgantown, West Virginia 26506.**

West Virginia University is an Equal Opportunity/Affirmative Action Employer.

CORNELL UNIVERSITY RADIO OR RADAR ASTRONOMY ASSISTANT PROFESSOR

A position as assistant professor is available in experimental or theoretical radio astronomy or in radar astronomy with the Department of Astronomy at Cornell University. The appointee is expected to teach one course per semester and may be associated with the National Astronomy and Ionosphere Center. Salary will be commensurate with qualifications and experience. The position will be available in July 1978, but an earlier starting date may be arranged.

Applications, including résumé and three letters of recommendation, should be addressed to: **Professor K. I. Greisen, Chairman, Astronomy Department, Cornell University, Ithaca, New York 14853.**

Cornell University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE SCIENTIST

Position available for M.D. or Ph.D. experienced in mammalian embryology and virology. To join ongoing research group and establish own program. Salary range: \$12,000 to \$13,000.

Submit detailed résumé to:

**Sandy D'Ambrosio
The Wistar Institute
36th and Spruce Streets
Philadelphia, Pa. 19104**

BIOCHEMISTS. Several faculty openings available for biochemists at the assistant or associate professorship level in this medical center biochemistry department. Primary consideration will be given to applicants with the desire and ability to teach general biochemistry to students in health professional programs and to participate in medically relevant research programs. Excellent opportunities exist for immediate collaboration in active research programs in the biochemistry of reproductive processes, of the nervous system and vision, of growth regulatory processes, and of environmental pollutants. Applicants should have expertise in the biochemistry of membranes, the isolation and study of nucleic acids, or of mitochondrial function and a desire to bring this expertise to bear on one of the problem areas above. Long-term development of a strong, extramurally supported research program will be expected and encouraged. Deadline for receipt of applications with curriculum vitae, list of publications, and names of three references is 4 November 1977. Openings will be available at varying times during 1978, starting 1 January. Please send applications to: **Billy Baggett, Ph.D., Chairman, Department of Biochemistry, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.** *We are an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DEPARTMENT OF TRANSPORTATION NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

The National Highway Traffic Safety Administration (NHTSA) is seeking a dynamic individual to lead our research and development program devoted to diverse aspects of highway traffic safety, ranging from the vehicle to the human factors.

The position is that of **ASSOCIATE ADMINISTRATOR FOR RESEARCH AND DEVELOPMENT**, GS-1301-18 (annual salary \$47,500), and it is located in Washington, D.C. The program has an annual budget of about \$42 million and 186 employees. The ideal candidates will have directly related R & D experience as well as the appropriate managerial background which will allow them to direct this important program.

If you are interested in being considered, submit a Personal Qualification Statement or detailed résumé, including salary history, to:

**National Highway Traffic Safety Administration
Office of Personnel Management, Room 5306
400 7th Street, SW, Nassif Building
Washington, D.C. 20590**

Personal Qualification Statements (Standard Form 171) may be obtained at any Civil Service Commission Office or Post Office. The candidates selected will be given a career appointment.

NHTSA is an Equal Opportunity/Affirmative Action Employer.

The Atlanta Veterans Administration Hospital invites applications for the position of **ASSOCIATE CHIEF OF STAFF FOR RESEARCH AND DEVELOPMENT**. Candidates must be licensed to practice medicine in the United States and have demonstrated a commitment to excellence in research with an ongoing program of independent investigation. Substantial administrative experience is desired, but applicants need not have had a previous affiliation with the Veterans Administration. The selected candidate will have an opportunity for joint appointment to the faculty of Emory Medical School. Candidates should send letters of application and curriculum vitae, before 1 December 1977, to: **Dr. Robert L. Dehaan, Chairman, Associate Chief of Staff Search Committee, Department of Anatomy, Emory University, Atlanta, Ga. 30322.** *The Veterans Administration is an Equal Opportunity Employer.*

BIOLOGICAL NMR SPECTROSCOPIST

The Purdue Biological Nuclear Magnetic Resonance Laboratory is seeking an **OPERATIONS MANAGER** for its new regional facility. Qualifications should include a Ph.D. or equivalent achievement with experience in NMR spectroscopy of biological or organic systems using high-field superconducting solenoid spectrometers, NMR electronics, and computer programming. Duties include routine scheduling and maintenance of spectrometers, assisting users in designing and carrying out experiments, and instrument development. Independent as well as collaborative research will be encouraged. The salary will be based on the level of experience. Interested applicants should submit a curriculum vitae with a summary of accomplishments and objectives and the names of three references to: **Dr. John L. Markley, Director, Purdue Biological Nuclear Magnetic Resonance Laboratory, Department of Chemistry, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

DEAN OF NATURAL SCIENCE

Hampshire College seeks a dean for its School of Natural Science to begin in July 1978. Hampshire, an undergraduate college of 1300 students, opened in 1970, and operates in cooperation with Amherst, Smith, and Mt. Holyoke Colleges, and the University of Massachusetts. It is committed to effecting change in traditional undergraduate education. Science teaching emphasizes early hands-on laboratory experience and exposure to original research papers; the science faculty works closely with nonscientist colleagues in formulating questions for interdisciplinary research and teaching. Interested people are invited to submit appropriate information by 15 November 1977 to:

**The Natural Science Dean Search Committee
Box S
Hampshire College
Amherst, Massachusetts 01102**

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

CELL AND MOLECULAR BIOLOGIST (staff fellow) at Boston Biomedical Research Institute, *An Equal Opportunity Employer.* Duties: participation in research on muscle growth and differentiation, normal and pathological. Requirements: at least 2 years of postdoctoral experience in this area; familiarity with current techniques of molecular, cell, and developmental biology; ability to supervise junior staff. U.S. citizenship or permanent residence required. Salary \$12,288 per annum. Apply to: **Dr. S. Sarkar, Boston Biomedical Research Institute, 20 Stanford Street, Boston, Mass. 02114.**

CELLULAR PHYSIOLOGIST

The Department of Zoology, University of California, Davis, is seeking applicants for a position on its faculty. The person appointed will be expected to teach a one-quarter course in introductory physiology with associated laboratory course, and an advanced course in cell biology as well as a graduate seminar in his or her own field of specialization. It is expected that the individual will initiate and carry out a productive research program and will participate in the department's graduate program. The appointment level and salary will depend on qualifications and experience. Appointments are normally at the assistant professor level, minimum salary \$15,000 per annum.

Persons who wish to apply should forward a curriculum vitae, a description of their research programs and future plans, a summary of their teaching capabilities, and three letters of recommendation to: **Dr. Ronald J. Baskin, Chairperson, Department of Zoology, University of California, Davis, California 95616.** *The University of California is an Equal Opportunity/Affirmative Action Employer.* Screening of applicants will begin 14 November; closing date for receipt of applications is 30 December 1977.

CHAIRPERSON DEPARTMENT OF MICROBIOLOGY University of Arizona College of Medicine

Candidates must have doctorate in microbiology or related area, or M.D. Administrative ability and interest in teaching and strong ongoing research program are essential. Department has seven full-time faculty members and participates in molecular biology graduate training program. Teaching responsibilities of department include basic medical microbiology course for medical students, graduate teaching, and interdepartmental teaching with clinical sciences. All letters of application, including a curriculum vitae, should be mailed to: **Andrew M. Goldner, Ph.D., Microbiology Search Committee, University of Arizona College of Medicine, Tucson, Arizona 85724** and received no later than 1 December 1977.

The University of Arizona is an Equal Opportunity/Affirmative Action/Title IX Employer.

CHAIRPERSON, DEPARTMENT OF SURGERY

The University of California, Davis, is seeking the most highly qualified individual to become chairperson of its Department of Surgery on 1 January 1978. Candidates must be at the associate or full professor level and have substantial background in academic surgery, with interest and experience in patient care, teaching, research, and administration. *The University is an Equal Opportunity/Affirmative Action Employer.* Interested persons should submit letters summarizing their qualifications and curriculum vitae at the earliest possible time to: **Paul R. Lipscomb, M.D., Chairperson, Search Committee, University of California, Davis, Professional Building, 4301 X Street, Sacramento, California 95817.**

CLINICAL BIOCHEMIST for 300-bed general hospital requiring supervision of service laboratory, quality control, physician interaction, and teaching of medical students. Certified clinical chemist preferred. Hospital associated with School of Medicine, University of Missouri-Kansas City. Send résumé and list of three references to: **Dr. Chandler Smith, Department of Pathology, Truman Medical Center, 2301 Holmes Street, Kansas City, Missouri 64108.**

The Colorado College is seeking a **DEVELOPMENTAL BOTANIST-PLANT PHYSIOLOGIST** for a 1-year appointment in 1978-1979. Ph.D. required. Applicants should be interested in teaching introductory and advanced biology courses in a liberal arts setting. Interested persons should send a curriculum vitae, copies of publications, and arrange to have three letters of reference sent by 1 December 1977 to: **Jack L. Carter, Chairman, Department of Biology, The Colorado College, Colorado Springs, Colorado 80903.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DIRECTOR GENETIC ENGINEERING

Aggressive company dedicated to molecular genetics is seeking Ph.D. with expertise in molecular cloning/plasmid engineering to design and carry out research programs. Salary negotiable. Send curriculum vitae, references, and salary requirements in confidence to: **Box 374, SCIENCE.**

DIRECTOR OF CELL BIOLOGY. The Department of Human Biological Chemistry and Genetics, University of Texas Medical Branch at Galveston, is seeking a director for the Division of Cell Biology. Candidate must have Ph.D., M.D., or equivalent credentials for professor, an established research program, and be prepared to assume responsibility for administration of curricula in medical and graduate cell biology. An interest in developmental or membrane biology is desired, but other areas are not excluded. Please send curriculum vitae and names of three individuals for letters of reference to: **Dr. Louis A. Sordahl, Cell Biology Search Committee, Division of Biochemistry, University of Texas Medical Branch, Galveston, Texas 77550** by 1 December 1977. *An Equal Opportunity/Affirmative Action Employer.*

FRESHWATER BIOLOGIST

Faculty position at the University of California, Santa Barbara, Department of Biological Sciences. Effective 1 July 1978. Applications are sought from limnologists and freshwater ecologists conducting innovative research on heterotrophic organisms. Teaching is required at the undergraduate and graduate levels. Rank and salary depend on qualifications and experience.

Applications with curriculum vitae, list of publications, names of references, summary of research interests, should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Letters of reference should not be sent until requested. Applications must be postmarked no later than 15 December 1977. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ENGINEER-PHYSIOLOGIST

Engineer-physiologist (doctoral degree in engineering science) with several years of experience in temperature regulation, circulatory and exercise physiology, mathematical modeling, computer programming, and instrumentation to join major university medical center. Write to: **John A. Downey, M.D., Chairman, Department of Rehabilitation Medicine, Columbia-Presbyterian Medical Center, 630 West 168 Street, New York, N.Y. 10032.** *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS

The Department of Biochemistry, State University of New York at Buffalo, Schools of Medicine, Dentistry and Pharmacy, has assistant and associate professor positions available for qualified, full-time biochemistry faculty. Necessary qualifications for these positions include a positive, long-term commitment to teaching, a demonstrated proficiency in research, and interest in training Ph.D. candidates. Positions are available immediately and through summer 1978. Salary and rank are negotiable depending upon post-doctoral experience and other qualifications. Applicants should submit curriculum vitae, including a statement of long-term research objectives, reprints or preprints of publications, and names of three references, to:

**Dr. Alexander C. Brownie, Chairman
Department of Biochemistry
State University of New York at Buffalo
95 Farber Hall
Buffalo, New York 14214**

An Equal Opportunity/Affirmative Action Employer

Medical center in New York City has **OPENING** in microbiology and/or immunology. Ph.D. or M.S. experienced to work in tumor immunology research, both human and animal projects. Strong background in CMI and tissue culture desirable. Salary commensurate with experience. Send résumé and names of three references to: **Box 369, SCIENCE.**

POSITIONS OPEN

DIRECTOR, DEPARTMENT OF PATHOLOGY

Our 300-bed, university-affiliated teaching hospital in Philadelphia, Pa., is seeking a director for the Department of Pathology. The department includes both anatomic and clinical divisions. To apply please send your résumé to:

Box 377, SCIENCE
Equal Opportunity Employer

ECOLOGISTS: SANTA BARBARA

Immediate openings for Ph.D. **aquatic ecologist** (with population or modeling background), **range ecologist**, and **wildlife biologist**, with an environmental consulting firm engaged in long-term, scientifically rigorous environmental analysis of projects throughout the United States. Send résumé to:

**Personnel Manager
Henningson, Durham & Richardson
804 Anacapa Street
Santa Barbara, Calif. 93101**
An Equal Opportunity Employer

MEDICAL SCHOOL FULL-TIME FACULTY POSITION

The new and innovative University of Missouri-Kansas City Medical School has openings for internists and/or medical subspecialists who are interested in teaching and primary patient care. The emphasis is on teaching medical students and house-staff clinical medicine and on continuing patient care, in both clinic and hospital. Each faculty member has responsibility for a specific group of medical students, guiding them through their education. There is ample opportunity, but no requirement, to undertake research. Facilities are modern, and fringe benefits are excellent. The egalitarian organizational structure allows considerable freedom and time for professional growth. For further information, please contact: **Lee Langley, Ph.D., Associate Dean, University of Missouri-Kansas City School of Medicine, 2411 Holmes Street, Kansas City, Missouri 64108.**

SmithKline PHARMACOLOGIST PhD

Major pharmaceutical company has excellent opportunity for PhD with at least 3 years post doctoral experience in expanding Development/Scientific Support operation to compile, interpret and present pre-clinical and clinical data in development of new drug products. Individual will also participate in planning clinical studies and in preparation, submission and overall strategy of both IND and NDA. Excellent interpersonal and communication skills required.

Smithkline Corporation offers an excellent compensation/benefit program and opportunity for professional growth. Please send resume with salary history to:

**ALAN SCHWARTZ
SMITHKLINE
CORPORATION**

1538 Spring Garden St., P.O. Box 7929,
Philadelphia, Penna., 19101

Equal Opportunity Employer, M/F

SmithKline

ONR DIRECTOR STATISTICS & PROBABILITY PROGRAM

GS-15 (\$33,789 to \$43,923)

Plans, initiates, organizes, budgets for, supervises and coordinates fundamental applied contract research programs in the fields of mathematics, statistics and probability. Also, advises on related econometrics, ADP and computing research.

Must have PhD or equivalent in Statistics and background in the above areas.

Send resume or SF-171 and publications list by 28 October 1977 to:

**Director of Personnel Services
No. 77-45**

**Office of Naval Research
800 North Quincy St.
Arlington, Va. 22217**

An Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS IN PHYSIOLOGY

The Department of Physiology and Biophysics, University of Iowa College of Medicine, invites applications from highly qualified individuals for tenure-track positions, preferably at the assistant professor level. Candidates should be prepared to participate in the medical and graduate training activities of the department and to develop a strong research program in one of the following areas:

- 1) excitable membranes, simple nervous systems, nerve cell culture, cellular neuroendocrinology, or CNS development,
- 2) mechanisms of membrane transport in epithelial cells, red blood cells, or lipid bilayers, or
- 3) cardiac cell electrophysiology or metabolic physiology.

Please send curriculum vitae, including bibliography and brief description of research interests, teaching experience, and career objectives, with names of at least three references, to: **Dr. Robert E. Fellows, Department of Physiology and Biophysics, University of Iowa College of Medicine, Iowa City, Iowa 52242.** The University of Iowa is an Equal Opportunity Employer.

The Department of Biological Sciences at State University of New York at Binghamton has two **FACULTY OPENINGS** to begin September 1978, possibly January 1978. Rank and salary are open and will be commensurate with credentials. Teaching will be at the undergraduate and graduate levels to integrate the expertise of the applicants with our developing teaching program. Since 1973 the department has occupied a modern, well-equipped building on a scenic campus and has hired a dozen new faculty.

GENETICIST—in plant or mammalian somatic systems, recombinant DNA systems, virology, regulation, or other areas of modern genetics.

REPRODUCTIVE BIOLOGIST—conversant with biochemistry, cell biology, electron microscopy, developmental genetics, genetic engineering, or other areas of modern biology.

Applicants should send curriculum vitae, reprints, succinct summary of projected research program, statement of teaching interests, and home and business telephone numbers. Deadline for receipt of applications is 15 November 1977. Send all correspondence to either: **Roy Jensen, Genetics Search Committee** or **Stuart Landry, Reproduction Search Committee, Department of Biological Sciences, State University of New York at Binghamton, Binghamton, New York 13901.** An Equal Opportunity/Affirmative Action Employer.

The Department of Biology, College of Science, Texas A & M University, College Station, Texas 77843, is accepting applications for **EIGHT FACULTY POSITIONS** for September 1978. One is for a professor (rank open) in the area of **animal behavior** with research interests in the biochemical and hormonal control of behavior. This individual must be qualified to teach in the area of animal behavior and neurophysiology. A second is for an **experimental parasitologist** with training and research interests in molecular biology and/or immunology to assist in the teaching of parasitology and/or protozoology. The third is for a **cellular biologist** preferably in the area of neuroanatomy. This individual must be qualified to teach an undergraduate course in chordate anatomy, and at the graduate level a course in techniques in electron microscopy and/or ultrastructural anatomy. The second and third are at the rank of assistant professor, and candidates for these positions should have a Ph.D. with a minimum of 1 year of postdoctoral experience. High-quality research and teaching will be expected of those appointed. The remaining positions are for visiting assistant professors qualified to teach in the area of **general biology**. Candidates for these positions must have a Ph.D.; salary \$14,040. Time for postdoctoral research will be available in collaboration with one or more faculty members. For all positions, send complete curriculum vitae plus three letters of recommendation to: **Chairman, Search Committee, Texas A & M University** is an Affirmative Action/Equal Opportunity Employer.

POPULATION GENETICIST/BIostatistician sought. Please send résumé by 15 November 1977 to: **Michael M. Kaback, M.D., Professor of Pediatrics and Medicine, Division of Medical Genetics, UCLA/Harbor General Hospital, 1000 West Carson Street, Torrance, Calif. 90509.** An Equal Opportunity Employer.

POSITIONS OPEN

CAPRICORNIA INSTITUTE OF ADVANCED EDUCATION ROCKHAMPTON, QUEENSLAND, AUSTRALIA

Applications are invited from suitably qualified persons for the position of

HEAD DEPARTMENT OF BIOLOGY

Which will become vacant in December 1977 following the resignation of Dr. A. W. Osborn to take up the position of science adviser with the Reserve Bank of Australia.

The Institute offers postgraduate courses, degrees, and paraprofessional diplomas in applied science, arts, business, education, and engineering. The appointee would be expected to provide academic and administrative leadership in the Department of Biology which currently offers a B. APP. SC. degree and an associate diploma in biological laboratory techniques to both internal and external students. A postgraduate program in areas of applied biology of relevance to tropical central Queensland is planned for 1979.

CURRENT SALARY: Aust. \$25,978 per annum.

Applicants should hold a doctorate in biology or a closely related discipline and have had substantial experience in applied research, industry, and/or tertiary education. Further information and forms of application are obtainable from: **The Registrar, M.S. 76, Rockhampton, Queensland, Australia,** with whom applications close on 31 October 1977.

UNIVERSITY OF OTAGO Dunedin, New Zealand LECTURERS OR SENIOR LECTURERS IN ANATOMY

Two vacancies open to graduates in medicine, dentistry, science, or veterinary science. Activity in research in some aspect of embryology or developmental biology for one post, skill in electromicroscopy for second as well as teaching in histology or neuroanatomy or gross anatomy for both positions.

Short-term appointments may be negotiated.

Full particulars from: **D. W. Girvan, Registrar, P.O. Box 56, Dunedin, New Zealand.**

MARINE BIOLOGIST

A research position is available at the Smithsonian Tropical Research Institute (STRI) for a marine biologist interested in the ecology, behavior, or evolution of tropical organisms. Field experience and a research and publication record is desirable. Salary from \$16,500 to \$27,900. Please send (via air mail) curriculum vitae, reprints, and the names of three references we may contact to: **The Director, Smithsonian Tropical Research Institute, Box 2072, Balboa, Canal Zone, Panama.**

STRI is an Equal Opportunity Employer.

MICROBIOLOGIST. One of the nation's leading R & D groups has an excellent opportunity for a microbiologist. Candidate should have an M.S. in microbiology. Genetics or biochemistry and research experience in DNA-DNA hybridization, plasmid DNA isolation, and electron microscopy (heteroduplex analysis). Work involves studies with plasmid DNA including development of vectors for molecular cloning in *Pseudomonas*. Reply in confidence to: **Box 375, SCIENCE.**

An Equal Opportunity Employer, M/F

ORGANIC-ANALYTICAL CHEMIST: applications are invited for the senior position of organic-analytical chemist. Candidates should have an extensive background in organic chemistry and a record of distinguished achievement in directing an analytical chemistry laboratory. The ability to direct routine analyses and to modify such analyses and incorporate new methods frequently and at short notice is essential. Salary range in the upper 20,000's per annum. Send résumé and the names of three references to **Box 376, SCIENCE.**

POSITIONS OPEN

DIRECTOR, INTERREGIONAL RESEARCH PROJECT NO. 4

IR-4, a National Agricultural Program for Clearances of Pesticides for Minor or Specialty Uses, is seeking a director of the project located at Rutgers, the State University of New Jersey, New Brunswick, N.J. The ultimate objective of the project is to finalize pesticide tolerances and registered labels. The director will supervise activities of the IR-4 personnel. It will be his/her responsibility to maintain close cooperation with industry and all federal and state agencies involved in pesticide usage in the production of food, feed, fiber, and ornamental crops.

The project director will report directly to the director of the N.J. Agricultural Experimental Station or his designate and to the IR-4 management committee. Applicants should have a Ph.D. or equivalent. For salary purposes the position is equivalent to a full professor. Applicants should submit a résumé and three references by 1 November 1977 to:

**Dr. H. D. Brown, Associate Director
New Jersey Agricultural Experiment Station
P.O. Box 231
Rutgers University
New Brunswick, N.J. 08903**

Rutgers, the State University, is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGIST/ETHOLOGIST

A position is available for a neurobiologist with strength in ethology, or an ethologist with strength in neurobiology. Although the appointment is nominally at the assistant professor level, a senior appointment is possible. Starting date is open. Inquiries or applications consisting of curriculum vitae, statement of research interests, and names of four references may be sent to: **Dr. Alan Gelperin, Neurobiology Search Committee, Department of Biology, Princeton University, Princeton, N.J. 08540.** Princeton University is an Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGISTS

The Rockford School of Medicine, College of Medicine, University of Illinois, is seeking two new faculty members at the assistant professor level for its Division of Biomedical Sciences. Both positions are available on or about 1 January 1978. The Division of Biomedical Sciences is responsible for instruction of medical students as well as residents and for a multidisciplinary basic and clinical research program. Individuals with teaching experience and particular interest in pharmacokinetics, drug metabolism, and toxicology will be preferred but all interested applicants are encouraged to apply. A complete curriculum vitae should be sent to: **Acting Director, Division of Biomedical Sciences, Rockford School of Medicine, 1601 Parkview Avenue, Rockford, Illinois 61101.**

An Equal Opportunity/Affirmative Action Employer

PHYSICAL OCEANOGRAPHY

Research associates in physical oceanography. Two positions are available at the University of Texas Marine Science Institute, Port Aransas Marine Laboratory, Port Aransas, Texas.

The successful applicants will be expected to develop broad-based programs in physical oceanography and contribute to ongoing research programs.

Send curriculum vitae and names of three references to: **Dr. Oswald Roels, Director, Port Aransas Marine Laboratory, Port Aransas, Texas 78373.**

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

PLANT BIOLOGY

Assistant professor, genetic manipulation of plants. Teaching and research. Prefer applicants with strong background or interest in plant biology and with direct experience in viruses, viroids, or plasmids. Position available September 1978. Send curriculum vitae and three references to: **J. E. Varner, Department of Biology, Washington University, St. Louis, Missouri 63130.**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available immediately for a period up to 3 years for research on the structure and function of adult and fetal hemoglobins. Send résumé to: **Dr. Titus H. J. Huisman, Chairman, Department of Cell and Molecular Biology, Medical College of Georgia, Augusta, Georgia 30902.** Equal Opportunity/Affirmative Action Employer.

Ocean Engineer

GS-15 (Announcement 77-037)

GS-15 Salary Range:

\$33,789-\$43,923

OFFICE OF NAVAL RESEARCH NSTL STATION, MISSISSIPPI

The successful applicant will become Program Director of the Ocean Technology Program of ONR's Ocean Science and Technology Division (Code 480). The individual will be responsible for initiating, planning, organizing, directing and carrying through to completion broad major engineering research and development projects in ocean technology for academic oceanography. This is a contract research program, primarily at academic institutions, and is presently budgeted at \$1,500,000 per year. Although the tasks in the program are unclassified, it is

oriented toward the mission problems of the Navy. Education at the PhD level, or equivalent professional experience, as demonstrated by published articles, management experience, and an ability to make lucid technical presentations, are required. It is desirable that applicants have considerable seagoing experience.

Interested candidates should submit personal qualifications statement, Standard Form 171, including publications and references, by 1 November 1977 to:

Civilian Personnel Office (Code 123)

Naval Ocean Research and Development Activity

NSTL Station, Mississippi 39529

This position is in the Federal Career Service with all Civil Service benefits.

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LINCOLN COLLEGE

(University College of Agriculture)
New Zealand

LECTURER IN ENTOMOLOGY

The Council of Lincoln College invites applications for the position of Lecturer in Entomology.

Preference will be given to applicants with doctorate qualifications, some experience of New Zealand agricultural practices, and with proven research interests in pest management, population ecology and/or other fields of entomology associated with applied agricultural problems.

Commencing salary according to qualifications and experience, within the range NZ\$9,874-\$12,178 per annum. The present salaries are supplemented by a Cost-of-Living Allowance of NZ\$365 per annum. Travel and removal expenses reimbursed up to specified limits. New Zealand Government Superannuation available.

Conditions of Appointment are obtainable from the Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H OPF, or from the Registrar of the College.

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Top technical authority responsible for the formulation, technical content, integrity, and execution of the in-house, laboratory, support contract and major contract R & D efforts of the SES program. Responsibilities encompass directing total program implementation from the evaluation and development of studies of SES technologies to the design and formulation of prototypes. Must have broad and significant experience in research and development in the field of Surface Effect Ships and conventional ship design. Salary range from \$39,629 to \$47,500 depending on experience. Civil Service status not required. Submit SF-171 (Personal Qualifications Statement) by 31 October 1977 to:

David W. Taylor
Naval Ship Research
& Development Center
Civilian Personnel Dept.
Code 712.3C
Bethesda, Maryland 20084
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POSITIONS OPEN

PLANT PROTECTION AND PEST MANAGEMENT

Teaching (75 percent) and research (25 percent) position at Washington State University. A person with a Ph.D. in entomology, plant pathology, or weed science and experience in plant protection and pest management is sought to teach in and coordinate an undergraduate curriculum in crop protection and pest management. Applicants will be accepted until 30 November 1977. A more complete position description is available from: **Dr. Carl A. Johansen, Department of Entomology, Washington State University, Pullman, Washington 99164.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION

A position is available for a trained electron microscopist interested in studying central visual pathways in mammals. A Ph.D. degree is required. Salary is \$12,000 per year. Applicants should send a curriculum vitae to:

Dr. John K. Harting
Department of Anatomy
University of Wisconsin
Madison, Wisconsin 53706

Women and minority candidates are encouraged to apply. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS of 2 to 3 years duration available immediately. (i) **PHARMACOLOGIST** to study interactions of biologically active polypeptides and smooth muscle, and (ii) **CHEMIST/BIOCHEMIST** to synthesize and evaluate active-site directed protease inhibitors. Primary emphasis for both positions will be in the renin/angiotensin and kallikrein/kinin areas. Send curriculum vitae and list of three references to: **Dr. R. J. Freer, Department of Pharmacology, Box 726, Medical College of Virginia, Richmond, Virginia 23298.** *Medical College of Virginia is an Equal Opportunity Employer.*

Two (2) POSTDOCTORAL POSITIONS. Available immediately to study protein, carbohydrate, glycoprotein structure and function. Stipend \$10,000 plus; plus benefits. Send curriculum vitae and three letters of reference to: **Dr. O. P. Bahl, Chairman, Department of Biological Sciences, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, N.Y. 14260.**

Two-year POSTDOCTORAL POSITION available immediately for Ph.D. or M.D. to study experimental tumor-host interactions with emphasis on functional relationships and cytokinetics of macrophages and lymphocytes. Experience with in vitro and in vivo models desirable. Salary \$14,000. Please send curriculum vitae and names of three references to: **Dr. A. Volkman, Department of Pathology, School of Medicine, East Carolina University, Greenville, N.C. 27834.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Position available immediately for a person with a Ph.D. or M.D. interested in research on skeletal muscle development. The areas of research include: analysis of cell surface proteins-glycoproteins, SEM and freeze-fracture studies on membranes and the ontogeny of insulin action. Send curriculum vitae, description of prior experience, and three letters of reference to: **Dr. Ronald J. Przybylski, Department of Anatomy, Case Western Reserve University, School of Medicine, Cleveland, Ohio 44106.**

**College of Veterinary Medicine
and Biomedical Sciences
Department of Physiology and Biophysics**

The Reproductive Biology Program, Colorado State University has openings for **POSTDOCTORAL** (starting date: 28 November) and **PREDOCTORAL FELLOWS** (starting date: 2 January). Training offered in areas of reproductive endocrinology, neuroendocrinology, cell biology, seminal physiology, fertilization, embryo culture and mechanism of steroid, peptide and protein hormone action. Send curriculum vitae and three letters of recommendation by 15 November to: **Dr. Gordon Niswender, Department of Physiology and Biophysics, Colorado State University, Fort Collins, Colorado 80523.**

Colorado State University is an Equal Opportunity Employer and complies with Title IX requirements. Complaints should be filed with the Office of Equal Opportunity, Student Services Building.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately. Involves the use of the ion microscope and ion microprobe to study the chemical composition of tissues. Experience with tissue sectioning techniques is essential. Send curriculum vitae with names of three references to:

Dr. G. H. Morrison
Department of Chemistry
Cornell University
Ithaca, N.Y. 14853.

POSTDOCTORAL RESEARCH ASSOCIATE position available July 1978. Biochemist or physiologist to study transport properties of plasma membrane vesicles isolated from renal cortex. Salary to \$13,000. Send curriculum vitae and three letters of reference to:

Dr. Peter S. Aronson
Departments of Medicine and Physiology
Yale School of Medicine
New Haven, Connecticut 06510

POSTDOCTORAL RESEARCH POSITIONS available in the area globin gene structure and expression. One position available November 1977 and another during 1977-1978. Send résumé to: **Dr. J. B. Lingrel, Department of Biological Chemistry, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267.** *An Equal Opportunity/Affirmative Action Employer.*

In the 1978-79 academic year, the **DEPARTMENT OF PSYCHOLOGY** at Indiana University, Bloomington, anticipates having three or four tenure-track openings at the level of assistant professor for new or recent Ph.D.'s. One position is in clinical psychology. Preferences for the other positions are in the developmental, social, and physiological (or psychobiology) areas of experimental psychology. However, outstanding candidates in other areas of experimental psychology will be considered. Candidates with interests that bridge two or more areas, or who have expertise and interest in teaching graduate-level courses in statistics, will receive special attention. Appointees are expected to carry out a systematic program of research, to teach at both the undergraduate and graduate levels, and to supervise student research. Applicants are requested to indicate prominently in their letters of application in which area(s) they consider themselves especially qualified. *Minority and women candidates are strongly encouraged to apply for these positions.* Please send a curriculum vitae and have three or more letters of reference sent by 15 December 1977 to: **Dr. Irving J. Saltzman, Chairman, Department of Psychology, Indiana University, Bloomington, Ind. 47401.**

An Affirmative Action/Equal Opportunity Employer

RESEARCH ASSISTANT PROFESSOR (nontenure accruing) highly skilled in microanalytical enzyme and metabolite assay techniques and cellular metabolism for application to research in diabetes. Good publication record is required and ability to direct research laboratory. Salary \$15,000 to \$20,000.

Box 378, SCIENCE

RESEARCH ASSOCIATE. Applied mathematicians and/or fluid mechanicians needed for research on mathematical modeling of currents and ecologic systems in both lakes and oceans. Candidates should have common sense and competence in numerical methods and fluid mechanics. Competence in or willingness to learn biology and chemistry is desirable. Applicants should send résumé and references to: **Professor Wilbert Lick, Department of Earth Sciences, Case Western Reserve University, Cleveland, Ohio 44106.** *An Equal Opportunity Employer.*

RESEARCH BIOCHEMIST. Research involves the mechanism of action of adrenocorticotrophic hormone of adrenal steroidogenesis and related areas of steroid biochemistry. Appointment is for 2 to 3 years. Applicant should submit curriculum vitae and have letters of reference sent to: **Dr. S. B. Koritz, Department of Biochemistry, MOUNT SINAI SCHOOL OF MEDICINE, One Gustave Levy Plaza, New York, N.Y. 10029.** *An Equal Opportunity Employer.*

Position open for a **SURGICAL PATHOLOGIST** at the level of assistant professor, Northwestern Memorial Hospital and Northwestern University School of Medicine, Chicago, Illinois. Competence in general surgical pathology with special interest in neoplasia. Active research program in chemical carcinogenesis obligatory. Send résumé to: **Box 368, SCIENCE.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Immediate opening at Tree Genetics Laboratory for Ph.D. with background in molecular biology or biochemistry to develop in vitro techniques for somatic cell manipulations of conifers and other plant species, with possibility that this might lead to faculty position. Please send résumé and three letters of recommendation to: **Dr. T. Y. Cheng, Department of Chemistry, Oregon Graduate Center, 19600 NW Walker Road, Beaverton, Oregon 97005.** *We are an Equal Opportunity Employer.*

RESEARCH ASSOCIATE IMMUNOGENETICS

Identification, isolation, and characterization of cell surface antigens. Interest and training in immunology, glycoprotein chemistry, or cell mediated immunity necessary. Send curriculum vitae to:

Dr. Barbara Knowles
The Wistar Institute
36th and Spruce Streets
Philadelphia, Pa. 19104

RESEARCH ASSOCIATE

Full-time research position available immediately for cell biologist/biochemist to study intracellular protein degradation and its regulation by hormones. Applicant should have Ph.D. or M.S. and knowledge of protein biochemistry and cell culture techniques. Salary up to \$16,000 depending upon experience and qualifications. Send curriculum vitae and three letters of reference to: **Dr. J. Fred Dice, Thimann Laboratories, Division of Natural Sciences, University of California, Santa Cruz, Calif. 95064.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

Imperial Medical Center of Iran (IMCI) requires qualified individuals to **TEACH** physiology, biochemistry, pharmacology, microbiology, anatomy, genetics, and immunology to medical students. Starting dates are: anatomy and biochemistry—1 January 1978; others—1 April 1978.

Applicants must have experience in teaching and be willing to spend 1 or 2 years at the IMCI in Iran. Competitive salary and allowances are offered. Please send curriculum vitae to the following address:

Dr. Esmail D. Zanjani
Research 151
Veteran Administration Hospital
54th Street and 48th Avenue
Minneapolis, Minnesota 55417

TEACHER OF BIOLOGY

Needed by 28 November 1977: teacher of biology. Major area: animal physiology. Minor areas: comparative anatomy and developmental biology. Ph.D. in physiology preferred but will consider M.S. with experience. Send résumé to: **Vice President for Academic Affairs, College of Saint Teresa, Winona, Minnesota 55987.**

TOXICOLOGIST. Ph.D. with background in analytical chemistry, clinical chemistry, biochemistry, or medicinal chemistry and/or experience in toxicology. Perform chemical analysis of biological fluids and tissues in postmortem medical legal investigations. Assistant level position. Please send résumé to: **Russell S. Fisher, M.D., Office of the Chief Medical Examiner, 111 Penn Street, Baltimore, Maryland 21201.**

TRACE ANALYSIS CHEMIST to conduct analysis of trace-elements in atmospheric sample media using atomic absorption, neutron activation, proton excitation, and other analytical methods. Opportunity for field involvement in Sierra Nevada, Alaska, Greenland, and Antarctica. Requires Ph.D. or M.S. in radiochemistry or geochemistry. Experience in atmospheric sciences or geophysical disciplines desirable. Minimum starting salary \$13,500. Send résumé postmarked before 15 November to: **Twyla Harrison, Desert Research Institute, University of Nevada System, Box 60220, Reno, Nevada 89506.** *An Affirmative Action/Equal Opportunity Employer.*

VIROLOGIST/IMMUNOLOGIST. Assistant Professor, Ph.D. teaching and research, new school starting 28 January. Tenure-track, full-time. A virologist with expertise in cellular immunology and interest in genetics. Knowledge of Spanish or willingness to learn desirable. Contact: **Chairperson, Department of Microbiology, School of Medicine, Catholic University of Puerto Rico, Ponce, P.R. 00731.** *An Affirmative Action/Equal Opportunity Employer.*

TOXICOLOGIST

Pharmaceutical Research

We have an attractive career opening presently available at our laboratories in Northwest New Jersey. Candidate should have a PhD or DVM, with 2-4 years' industrial experience in toxicology. Responsibilities will entail the writing of protocols, monitoring of studies and the writing of reports.

Our facilities are in a desirable semi-rural area approximately 65 miles from New York City. Living facilities can therefore offer the advantages of both life styles. This appointment offers, in addition, a very favorable profit-sharing and benefit program and the opportunity for basic supervisory responsibilities leading to further career enhancement.

Please reply with resume to: Manager of Research Employment, Schering-Plough Research Center, 60 Orange Street, Bloomfield, New Jersey 07003.

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LABORATORY HEAD, MOLECULAR PATHOLOGY BIOCHEMICAL PATHOLOGIST VETERINARY PATHOLOGIST/ PATHOLOGIST

The Developmental Therapeutics Program, National Cancer Institute, invites applications for these three positions in the Laboratory of Toxicology. This Laboratory conducts basic research and supervises toxicologic studies of anti-neoplastic agents in animals prior to their introduction into man. Applicants should have interests and experience in studying mechanisms of drug-induced toxicity, particularly from the point of view of following morphologic leads to the molecular level. Applicants should have a Ph.D. and/or M.D./D.V.M. [or equivalent and special training in molecular (biochemical) pathology]. Positions will be filled through career Civil Service appointments, salary range \$20,442-\$35,431, dependent upon qualifications or through U.S.P.H.S. Commissioned Corps. Letters of application with curriculum vitae, bibliography and SF 171, Personal Qualifications Statement, should be sent by November 18, 1977, to:

Mrs. Janie R. Lacy
National Cancer Institute
NATIONAL INSTITUTES OF HEALTH
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REQUEST FOR PROPOSALS

Enviro Control, Inc., under Prime Contract NO1-CP-55666 with the National Cancer Institute, is soliciting **PROPOSALS** for the Smoking and Health Program to investigate the role of changing cigarette type (different nicotine and/or carbon monoxide output) on the quantity of cigarettes used and parallel changes of several physiological parameters. This study is a documentation of behavioral characteristics and several physiological markers and not a study to modify the patterns of a smoker. The project will have a period of performance of 6 months.

Requests for proposals RFP-ECI-SHP-77-131 titled "Nicotine Titration (Accommodation) in Cigarette Smokers" will be available upon receipt of written requests directed to:

Enviro Control, Inc.
One Central Plaza
11300 Rockville Pike
Rockville, Md. 20852

Attn: J. Gardner, Subcontracts Administrator

Requests for the RFP will be available on or after 10 October 1977. Requests for copies of this solicitation will be honored if received within 21 calendar days after issuance of the solicitation. After that date a copy will be available for perusal at Enviro Control, Inc. The deadline date for submission of proposals is 1 December 1977. Award will be dependent on the availability of funds to support this project.

COURSES

CHEMICAL CARCINOGENESIS COURSE

On 11 to 13 February, the Puget Sound Section of the American Chemical Society will present an intensive series of lectures by nationally recognized experts on epidemiology, biology, chemistry, and molecular biology of chemical carcinogenesis. Sessions will be held just outside Seattle, Washington. Fees are \$65 for commuters, \$150 for live-in attendees. This program is acceptable for continuing medical education credit (details furnished on request). Deadline for registration is 31 December. For further information and registration forms, please write to: **Dr. John Scribner, Pacific Northwest Research Foundation, 1102 Columbia Street, Seattle, Washington 98104.**

FELLOWSHIP

PREDOCTORAL FELLOWSHIP IN NEUROBIOLOGY in the Boston University Marine Program, located at the Marine Biological Laboratory, Woods Hole, Mass., beginning 1 September 1978. The fellow will be a degree candidate in Boston University. The Boston University staff working in neurobiology at the Marine Biological Laboratory includes J. Atema, A. Fein, F. Lang, and E. F. MacNichol, Jr. Candidates with master's degrees preferred, but superior beginning graduate students considered. Application deadline is 1 February 1978. For further information and application forms write: **Director, Boston University Marine Program, Marine Biological Laboratory, Woods Hole, Mass. 02543. Telephone: 617-548-3705, ext. 519.**

POSTDOCTORAL FELLOWSHIP. Available immediately for up to 3 years for studies on herpes simplex viruses-virology, immunology, epidemiology, cancer. Applicants should have Ph.D., D.D.S., M.D., or equivalent and be U.S. citizens or permanent residents. Salary commensurate with training. Send curriculum vitae to: **Dr. Andre J. Nahmias, Emory University School of Medicine, 69 Butler Street, SE, Atlanta, Georgia 30303. An Equal Opportunity/Affirmative Action Employer.**

NATIONAL RESEARCH SERVICE AWARD FELLOWSHIPS IN LUNG BIOCHEMISTRY OR ANATOMY

A few NIH postdoctoral fellowships for up to 3 years will be available 1 July 1978 to study lung cell biology including biochemistry and ultrastructure. Excellent background in a basic science, medicine, or veterinary medicine is essential. Participating faculty are in departments of anatomy, biochemistry, medicine, and physiology. Inquiries, curriculum vitae, and names of three references to: **Donald Massaro, M.D., University of Miami School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152. An Equal Opportunity Employer.**

FELLOWSHIP

POSTDOCTORAL FELLOWSHIPS

The Cardiovascular Institute at Boston University School of Medicine is seeking qualified candidates to pursue postdoctoral research related to basic science of cardiovascular disease, including studies in hypertension, atherosclerosis, and coronary artery disease. Stipend range \$10,000 to \$14,000. For further information write: **William B. Hood, Jr., M.D., Program Director, Boston University School of Medicine, 80 East Concord Street, Boston, Mass. 02118.**

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POSTDOCTORAL FELLOWSHIP is available for a Ph.D. in biochemistry or molecular biology to work on transport mechanism of vitamin A. This is a 2-year fellowship supported by the National Retinitis Pigmentosa Foundation, Inc. Send résumé with three references to: **Dr. Joram Heller, Jules Stein Eye Institute, University of California, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP

Applications are invited for research on three-dimensional vascular architecture in the Araceae at Fairchild Tropical Garden. Applicants should have carried out research in plant anatomy and morphology, preferably at the light microscope level. Send curriculum vitae, bibliography, and names of three referees to: **Business Manager, Fairchild Tropical Garden, 10901 Old Cutler Road, Miami, Florida 33156 or Dr. P. B. Tomlinson, Harvard Forest, Petersham, Mass. 01366.**

POSTDOCTORAL FELLOWSHIP available January 1978 for 1 or 2 years. Studies in oxidative phosphorylation and in the mechanism of action of mitochondrial ATPase. Salary \$13,000. Send inquiries and curriculum vitae including the names of two references to: **Dr. Harvey S. Penefsky, Department of Biochemistry, The Public Health Institute, 455 First Avenue, New York, N.Y. 10016.**

POSTDOCTORAL FELLOWSHIP

A postdoctoral fellowship is available at the W. Alton Jones Cell Science Center in Lake Placid, New York, for studies in the regulation of nitrogen assimilation by plant cells in culture and the interactions between nitrogen assimilation and the assimilation of other elements. These studies will be performed in the group directed by Dr. D. K. Douglass. The studies will require experience in the measurement of enzyme levels, and in the use of suspension cultures of plant cells for studies of enzyme regulation. Some of this experience can be acquired during the term of the fellowship. Candidates are expected to have a strong background in biochemistry and in plant physiology or biochemical genetics. The appointee will be expected to develop grant writing skills. The initial appointment is for 1 year. Salary depending on experience in the range of \$10,000 to \$12,000 per annum.

Applications including academic record, names and addresses of four persons to whom a request for reference will be made, curriculum vitae, and copies of papers published, should be addressed to:

Barbara Miller
Personnel Office
W. Alton Jones Cell Science Center
Old Barn Road
Lake Placid, N.Y. 12946
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Statement required by the Act of 12 August 1970: Section 3685, Title 39, United States Code showing the ownership, management, and circulation of:

SCIENCE published weekly on Friday except the last week in December, but with an extra issue on the third Tuesday in September, at 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Date of filing: 16 September 1977. This is also the address of the publisher, the editor, and the managing editor, who are, respectively, William D. Carey, Philip H. Abelson, and Robert V. Ormes.

The owner is American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Stockholders: None.

Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: None.

The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes have not changed during preceding 12 months.

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Actual number of copies of single issue published nearest to filing date are (A) Total No. copies printed: 156,040; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: 28; (2) mail subscriptions: 149,393; (C) Total paid circulation: 149,393; (D) Free distribution by mail, carrier, or other means: (1) samples, complimentary, and other free copies: 2,372; (2) copies distributed to news agents, but not sold: none; (E) Total distribution: 151,765; (F) Office use, leftover, unaccounted, spoiled after printing: 4,275; (G) Total: 156,040.

I certify that the statements made by me above are correct and complete. (signed) **HANS NUSSBAUM, Business Manager**



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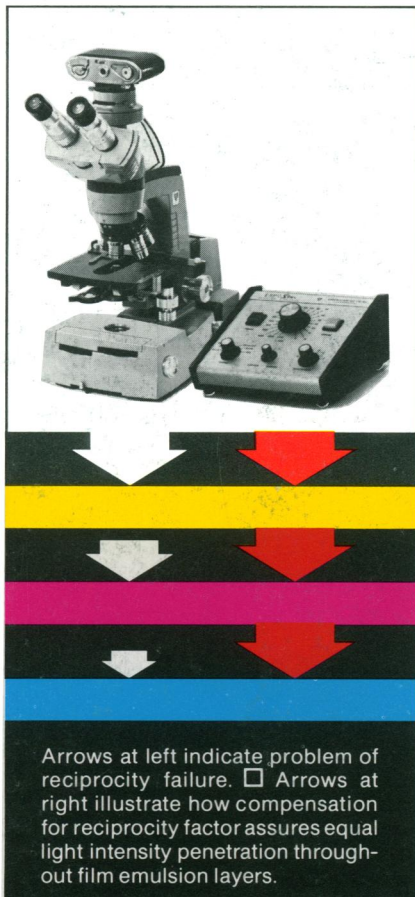
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