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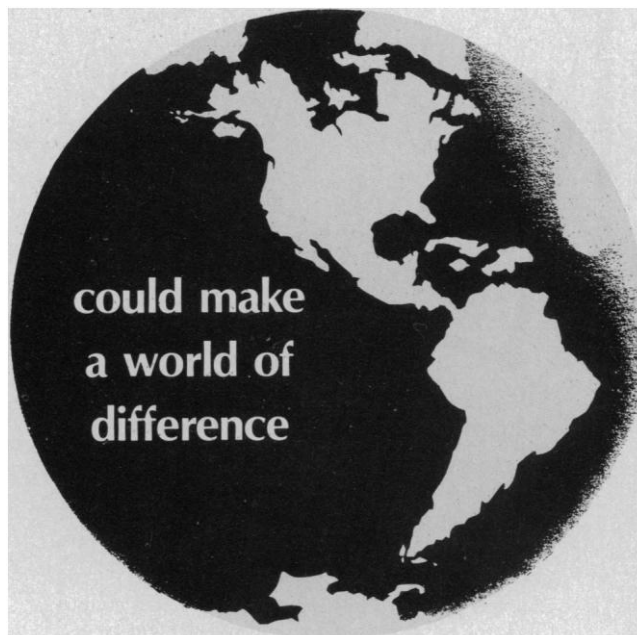
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Here's a unique, biology-oriented approach to ecology and environmental science that can give this vital subject added relevance for your students.

The principles of natural ecology, population ecology and speciation in natural systems are discussed in detail providing a comprehensive introduction for the beginning student. The authors also consider three special problems of man's interaction with his environment: *human population growth, energy and agriculture*, in an effort to widen the student's perspective. Significant scientific, social and economic issues are integrated into these discussions. Coverage includes *the nitrogen and carbon cycles, natural selection, species saturation, population dynamics and island biogeography*.

Concentrating on the biological implications and aspects of environmental science, this inexpensive book ably serves as the text for one-semester courses or as a stimulating and informative supplement for general biology programs.

A wide variety of study problems, lists of suggested assignments and answers for all computational exercises are included. The text features a glossary of important terms and a variety of graphs, photos, and original artwork to help students visualize salient discussion points. An **Instructor's Guide** is also available.

By **Jonathan Turk**, Naturalist; **Janet T. Wittes**, Hunter College, CUNY; **Robert Wittes**, MD, Memorial Sloan-Kettering Center; and **Amos Turk**, City College, CUNY. 296 pp. 108 ill. Soft cover. \$7.95. Feb. 1975.

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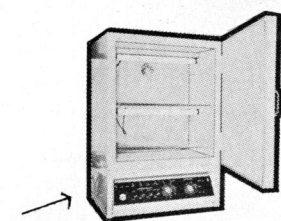
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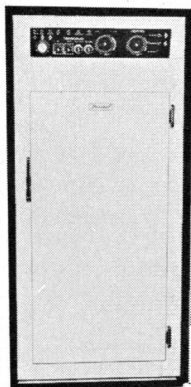


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# Personnel Placement

## POSITIONS WANTED

**Biochemist, Ph.D.**, early 1974. Experienced in membranes, antigens, allergens, enzymes, general protein and glycoprotein chemistry; also radioimmunoassays (RAST). Presently acting research director in industrial allergy research. Publications, patents. Seeks responsible research position, west of Mississippi. Box 454, SCIENCE. X

**Biologist**, successful former department head at large university, seeks return to administration; prefers New England or West. Box 465, SCIENCE. 12/5; 1/9

**Clinical Biochemist, Ph.D.** ABCC certified. Broad experience. Publications. Seeks position in hospital or health-oriented fields. Box 461, SCIENCE.

**Molecular Geneticist, Ph.D.** Fifteen years teaching/research experience in gene structure and regulation, mutagenic and carcinogenic tests, and biomedical applications of microwave and laser radiations. Several grants. Box 462, SCIENCE. X

**Physiologist, Ph.D.** 1972. Research and publications in acid-base and lung mechanics. Seeks academic research and/or teaching position in respiration physiology. Box 452, SCIENCE. X

**Policy Planner, M.Sc.** Background in theoretical and applied ecology. Three years of experience: coordinated impact studies, developed open space program and growth management scenarios for metropolitan area, policy analysis of transportation and social programs. Seeks challenging position. M. Powers, Number 3, 2710 U Street, Sacramento, California 95818.

**Conscientious Research Assistant: B.A.** chemistry. Seeks research or clinical position. Experience; 4 years of virology research (in vivo and in vitro); 2 years of mycology research (biochemical assays); 1 year of clinical chemistry (hospital). S. Weiner, 1520 South Beverly Glen Boulevard, Apartment 2, Los Angeles, California 90024. X

**Ruminant Nutritionist, Ph.D.** Experienced in drug and feed additive research, feed formulation, technical service, and research farm management. Seeks position with university or private industry. Box 463, SCIENCE. X

## POSITIONS OPEN

**ASSISTANT PROFESSORSHIP-ANALYTICAL OR PHYSICAL CHEMISTRY**, September 1976. Postdoctoral experience required. Preference will be given to applicants with research experience and interest in electrochemistry or structural chemistry. The successful applicant will be expected to establish a vigorous research program and to participate in the undergraduate and graduate instructional programs. Interested candidates should send a curriculum vitae, a brief outline of proposed research programs, and have three letters of recommendation sent to **Professor K. T. Potts, Chairman, Department of Chemistry, Rensselaer Polytechnic Institute, Troy, New York 12181.** *An Equal Opportunity Employer*

The University of California, Irvine, Department of Pathology is recruiting for a full-time faculty position at the **ASSISTANT PROFESSOR** level. Candidates must be M.D.'s and be Board-qualified in anatomical pathology. Teaching responsibilities involve instructing medical students, interns, and residents. Some teaching experience is desirable. Service responsibilities include surgical, cytology, and autopsy pathology. Expected to develop independent research activities.

*Applications from all qualified candidates are welcome.* Minorities and women are encouraged to apply. Send curriculum vitae before 1 February 1976 to:

**Dr. Edward R. Arquilla**  
University of California, Irvine  
Department of Pathology  
Irvine, California 92664

## POSITIONS OPEN

**ACAROLOGY**  
University of California, Berkeley  
Assistant Professor of Entomology

Position available. Research and teaching in acarology. Ph.D. required with broad training in acarology and a general entomological background. Expertise in the systematics, biology, and ecology of the Acarina is essential. Assignment will include management of mites of agricultural importance. An interest in evolutionary biology of mites is a desirable additional option. Send curriculum vitae, all official transcripts, copies of any publications or manuscripts, and the names of three qualified referees to: **Dr. Evert I. Schlenger, Chairman, Division of Entomology and Parasitology, University of California, Berkeley, California 94720.** *The University of California is an Equal Opportunity, Affirmative Action Employer.* Women and minority candidates are urged to apply.

**GENETICS/PLANT PATHOLOGY**  
ASSISTANT PROFESSOR

The Genetics and Plant Pathology Departments at the University of California at Berkeley seek to appoint a **Somatic Cell Plant Geneticist**, effective 1 February 1976. Training in genetics and molecular or cell biology is essential.

Responsibilities include undergraduate and graduate teaching and a research commitment to plant somatic cell genetics (for example, selection of agronomically important mutants in haploids, host-pathogen/pest interactions, and so forth). A research program balanced between fundamental and applied problems in agriculture is desired. Send curriculum vitae, transcripts, reprints, brief statement of research plans, and have three letters of reference sent to: **Michael Freeling, Co-Chairperson of the Search Committee, Genetics Department, University of California, Berkeley, California 94720.** Deadline for completed applications: 31 December 1975.

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

**ASSISTANT PROFESSOR IN GEOPHYSICS**

The University of Texas at Austin, Department of Geological Sciences, invites applications for this position, effective 1 September 1976. Requirements: Ph.D. in geophysics, electrical engineering, physics, or applied mathematics, with an interest and background in theory of applied geophysics.

Current geophysical faculty at Austin includes Milo M. Backus, Claude W. Horton, Sr., Wulf Massell, and Will Rust. Major thrust is exploration geophysics with emphasis on seismic reflection exploration. Facilities include a Phoenix seismic processing system, access to the University Computation Center (CDC 6600), an analog seismic field recording system, and a nearly complete earthquake seismic recording station. Research in solid earth geophysics is also conducted at the Galveston Marine Geophysics Laboratory, a cooperative program with the University of Texas-Austin. Major strength in tectonics, structural geology, and soft-rock geology in the department offers a unique environment to develop the union of principles of soft-rock geology and the theory of applied geophysics.

Résumés and inquiries should be sent to:

**Robert E. Boyer, Chairman**  
Department of Geological Sciences  
University of Texas at Austin  
Austin, Texas 78712

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**ASSISTANT RESEARCH PROFESSOR**

Applications invited from individuals wishing to collaborate in ongoing research program in neuroendocrinology of reproduction. Applicant should have postdoctoral experience. Highly desirable is familiarity with synaptosome preparations and/or molecular biochemistry and biogenic amines. Available September 1976. Send curriculum vitae to: **Dr. C. A. Barraclough, Department of Physiology, School of Medicine, University of Maryland, Baltimore, Md. 21201.** *An Equal Opportunity/Affirmative Action Employer*

**BIOCHEMIST:** Challenging position in research and teaching in biochemistry. Must have proven outstanding research contributions and 4 years of experience in the area of collagen biosynthesis. Doctoral degree required. Competitive salary. Excellent benefits and working conditions. One-year appointment. Please send résumé, bibliography, and statement of research and teaching interests to: **Ms. L. Dimond, Personnel, College of Medicine and Dentistry of New Jersey-Rutgers Medical School, Piscataway, New Jersey 08854.** *An Equal Opportunity Employer.*

## POSITIONS OPEN

The University of California, Irvine, Department of Pathology is recruiting a full-time **ASSOCIATE OR FULL PROFESSOR** who will also serve as Chief of Clinical Pathology Services at the Orange County Medical Center. Candidates must be M.D.'s and clinical Board-certified. Service administrative responsibilities include direction and operation of clinical laboratory. Teaching responsibilities involve medical students, House Officers, and paramedical training programs. Develop a House Officer training program in clinical pathology. Expected to develop independent research activities. Experience in operation of clinical laboratory is necessary prerequisite. *Applications from all qualified candidates are welcome.* Women and minorities are encouraged to apply. Send curriculum vitae before 1 December 1975 to:

**Dr. Edward R. Arquilla, Chairman**  
University of California, Irvine  
Department of Pathology  
Irvine, California 92664

**UNIVERSITY OF CALIFORNIA**  
SANTA BARBARA  
DEPARTMENT OF BIOLOGICAL SCIENCES

Faculty position, effective 1 July 1976. Applications are sought from **Freshwater Biologists** with research interests in such fields as secondary productivity, ecology, or freshwater systems, community structure, and so forth. Any combination of field, laboratory, or theoretical orientation will be considered. The appointee would join a group of freshwater and marine biologists and ecologists in a general biology department. Teaching is required at the undergraduate level in aquatic biology and at the graduate level in the area of the appointee's special interests. We seek excellence in research and teaching. Rank and salary depending 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.** Applications must be received before 1 December 1975. Letters of reference should not be sent until requested. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

## DRUG DISPOSITION RESEARCH

Position available for individual (Ph.D. or equivalent) with 1-5 year's experience in the areas of pharmacokinetics and drug metabolism (emphasis on kinetics) to head research section in an international pharmaceutical organization. Ideal candidate will have experience with compartmental modeling, design of bioavailability studies, computer assisted analysis of data, protein binding techniques, GLC, LC, MS, etc. Interest in structure-activity correlates to pharmacokinetics and drug metabolism and new drug development is necessary.

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Candidates' professional accomplishments should indicate outstanding leadership ability, administrative competence, scholarly attainment, and the capacity to work effectively in a multidisciplinary setting of social science and social welfare.

Nominations and applications, containing all relevant supportive materials, should be submitted to Professor Helen Codere, Chairperson, Search Committee, Office of the Dean of the Graduate School, Brandeis University, Waltham, Massachusetts 02154.

Application deadline: December 1, 1975.



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## POSITIONS OPEN

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## BIOLOGISTS

Centenary College, a 4-year liberal arts institution, with a strong premed program, seeks to fill two positions in the Department of Biology at the assistant and associate professor levels. Candidates should have established a professional reputation and be dedicated to the teaching profession. A broad biological background and teaching experience is required. Research in the candidate's specialty is encouraged. Send letters and résumés to: Dr. A. B. McPherson, Department of Biology, Centenary College, Shreveport, Louisiana 71104.

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## CELL BIOLOGIST ENZYMOLOGIST

This is a unique opportunity to join a newly formed group within the Merck Institute of Therapeutic Research located in Rahway, New Jersey. The group is concerned with fundamental research projects involving tissue culture and analysis of cellular enzyme systems. A Ph.D. with at least 2 years of postdoctoral experience is required. We encourage publication of results and academic affiliations. This is a high-level career opportunity and you will find it offers an excellent compensation package and highly professional work environment. Send résumé, including salary requirements, in confidence to: W. T. Jackson, Employment Supervisor.

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## CHAIRPERSON: DEPARTMENT OF PATHOLOGY

The University of Virginia School of Medicine is seeking candidates for head of the Department of Pathology. The appointee will be responsible for all educational, research, and service programs in both anatomic and clinical pathology at the University of Virginia Medical Center. Candidates are invited to submit a curriculum vitae and list of publications to Warren G. Stamp, Chairman, Department of Orthopedics and Rehabilitation, University of Virginia Medical Center, Charlottesville, Virginia 22903. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

## EXECUTIVE OFFICE OF THE PRESIDENT COUNCIL ON ENVIRONMENTAL QUALITY

The Council on Environmental Quality is a small federal agency (permanent staff of 44) responsible for advising the President and Executive Branch on environmental matters.

Two professional staff positions are currently open in the fields of occupational and environmental health. Staff members are responsible for policy research and oversight in particular subject fields (for example, in these cases occupational health, carcinogen and mutagen policy, and approaches to pesticide control). One medical position is available for highly qualified M.D.'s. The other position is for a specialist in public health (preferably with a Ph.D. in epidemiology, toxicology, or environmental medicine). Salary range depends upon training and experience.

Interested applicants should submit a résumé and the names of at least three people who can be contacted as references. Correspondence should be addressed to: Senior Staff Member for Environmental Health, Council on Environmental Quality, 722 Jackson Place, NW, Washington, D.C. 20006.

An Equal Opportunity Employer

## POSITIONS OPEN

**ASSISTANT PROFESSOR OF BIOCHEMISTRY.** University of Nebraska, Lincoln. Permanent joint appointment in the Department of Chemistry and School of Life Sciences, available 1 September 1976. Research area open, teaching in biochemistry primarily, postdoctoral experience required. Address inquiries to Dr. H. W. Knoche, Search Committee Chairman, Department of Chemistry, University of Nebraska, Lincoln, Nebraska 68588, before 15 December 1975. The University of Nebraska is an Equal Opportunity Employer.

Both senior and junior positions are available for well-qualified CELL BIOLOGISTS in the Department of Anatomy and Neurobiology, Washington University School of Medicine, St. Louis. Postdoctoral experience is required and training in histology is desirable. The position involves both teaching and research. Academic rank will be commensurate with qualifications. Applications from women and from members of minority groups will be welcomed. Applicants should submit a biographical sketch and list of publications and should have letters of recommendation sent by three individuals to:

Dr. Richard P. Bunge  
Department of Anatomy and Neurobiology  
Washington University School of Medicine  
660 South Euclid Avenue  
St. Louis, Missouri 63110

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The School of Medicine of the University of California, Davis, invites applicants for the position of CHAIRMAN of the Department of Physical Medicine and Rehabilitation. This position requires a Board-certified psychiatrist with substantial, demonstrated teaching, research, and administrative abilities who will provide leadership in a strong, active department. Applicants should send a curriculum vitae and other supporting information to Ernest Gardner, M.D., Chairman, Search Committee, Department of Neurology, University of California, Davis, California 95616. The University of California is an Affirmative Action/Equal Opportunity Employer.

The University of California, Irvine, College of Medicine is seeking a CHAIRMAN for the Department of Anatomy. Candidates must be eligible for appointment to the rank of professor. Candidates should have demonstrated excellence in biomedical research and teaching and should preferably have administrative experience. Candidates should be capable of providing academic leadership in the reorganization and development of the department. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Send curriculum vitae, before 1 December 1975, to Richard F. Thompson, Chairman of the Search Committee, Department of Psychobiology, University of California, Irvine, California 92664.

The School of Medicine at the University of California at Davis is seeking a qualified physician as CHAIRPERSON for a newly organized Department of Dermatology. High clinical competence, academic experience, and administrative potential desirable. Salary to be consistent with level of academic appointment. Interested persons please send résumés to:

James J. Castles, M.D.  
Department of Internal Medicine  
Section of Rheumatology  
School of Medicine, TB 172  
University of California  
Davis, California 95616

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## UNIVERSITY FACULTY POSITION IN PLASTIC SURGERY

Applications are invited for a faculty addition to the Division of Plastic and Reconstructive Surgery, Department of Surgery, University of Cincinnati Medical Center. The University is seeking candidates for a full-time faculty position who are certified by the American Board of Surgery and at least qualified by the American Board of Plastic Surgery. Excellence in resident and student teaching and clinical research interests are considered essential and a limited private practice is available. Curriculum vitae as well as three references should be sent to:

Henry W. Neale, M.D., Director  
Division of Plastic and Reconstructive Surgery  
Department of Surgery  
University of Cincinnati College of Medicine  
Cincinnati, Ohio 45267

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## POSITIONS OPEN

**ETHOLOGIST.** The Department of Wildlife Science seeks an ethologist with a Ph.D. and with demonstrated strength in teaching and research to fill a faculty position at the assistant professor level. Preference will be given to applicants who are able to teach and conduct research at the interface between animal behavior and fish or wildlife management. Employment commences September 1976. Closing date for applications is 31 December 1975. Send curriculum vitae and names of three references to **Dr. David F. Balph, Chairman of Search Committee, Department of Wildlife Science, UMC 52, Utah State University, Logan, Utah 84322. Utah State University is an Equal Opportunity/Affirmative Action Employer.**

**FACULTY POSITION,** assistant professor, academic year, available in pharmacology and toxicology effective 1 January 1976. Requirements include a Ph.D. in pharmacology or toxicology, or closely related area. Must show aptitude for teaching undergraduate and graduate courses. Active research interests in experimental toxicology or biochemical pharmacology desired.

Salary open and commensurate with qualifications. Prefer to fill position by 1 January 1976 but will accept applications after that date. Submit credentials with references to **Dr. John J. DeFeo, Chairman, Department of Pharmacology and Toxicology, College of Pharmacy, University of Rhode Island, Kingston, Rhode Island 02881.**

Position subject to availability of funds. *An Equal Opportunity/Affirmative Action Employer. Women and minority members are urged to apply.*

**GENETICIST.** Research interests in the formal genetics of metazoa supported by a broad background in molecular biology and development. Undergraduate teaching in genetics and general zoology, graduate teaching in area of research competence. Postdoctoral experience and/or outstanding research potential required. Position available July 1976; assistant professor rank. Please send biographical summary, publications, and three letters of reference to **J. C. Lucchesi, Department of Zoology, University of North Carolina, Chapel Hill, N.C. 27514, by 1 January. An Affirmative Action/Equal Opportunity Employer.**

## GEOCHEMIST

A nonprofit research organization seeks to fill an administrative **Staff Officer** position as an assistant to the Executive Secretary of a committee concerned with geochemistry and related health and disease aspects. The position is expected to involve the whole range of committee activities and staff functions performed in its behalf. It will include making arrangements for meetings, preparation of agendas and minutes, correspondence with individuals and representatives of other organizations, and preparation of reports for publication.

Applicants should have a degree (preferably a Ph.D.) in geochemistry. A demonstrable interest in environmental geochemistry and health, an ability to write and rewrite clearly and concisely, attention to detail, experience in report preparation, and an ability to work with a committee will be expected of the person selected.

Beginning salary between \$17,500 and \$20,000 depending upon qualifications. Send curriculum vitae to **Box 464, SCIENCE. An Equal Opportunity Employer.**

**LUNAR RESEARCH:** One-year Research Associate post immediately available for theoretical, numerical, and interpretive studies of electric transport of lunar surface materials. Ph.D. in physics, plasma physics, geophysics, or computer science required. Salary negotiable. Résumé, three professional references, and recent reprints to: **Dr. David R. Criswell, Lunar Science Institute, 3303 NASA Road 1, Houston, Texas 77058. Telephone: 713-488-5200.**

## MASS SPECTROSCOPIST RICE UNIVERSITY

The Department of Biochemistry of Rice University announces the availability of a staff position for an experienced bioorganic mass spectroscopist to operate GC-MS unit and to participate in research on sterol biosynthesis and chemistry of complex lipids. Additional experience in IR and NMR desired, but not essential. Salary open. Position available immediately. Interested persons should send résumés to: **G. J. Schroepfer, Jr., Biochemistry Department, Rice University, Houston, Texas 77001. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FISH BIOLOGIST

The Department of Zoology, College of Biological Sciences, The Ohio State University, has an opening for an **assistant professor** with a specialty in fish biology. Candidates must hold the Ph.D. and be qualified to teach upper-division courses in fish biology, fisheries science techniques, and develop seminar in special discipline. Active research and participation in graduate education expected. Potential for joint programs with Ohio Cooperative Fisheries Unit, Center for Lake Erie Area Research, and Water Resources Research Center. Nine-month appointment beginning autumn quarter 1976. Salary range: \$12,648 to \$14,208. Send résumé to **Dr. Tony J. Peterle, Chairman, Department of Zoology, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210. Deadline for receipt of materials is 1 January 1976.**

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### ORGANIC CHEMISTRY ANIMAL PHYSIOLOGY DEVELOPMENTAL BIOLOGY/GENETICS

Three assistant professorships available to applicants who have completed doctorate by date of appointment. Additional information and application requirements available from:

**Stephen A. Norrell, Ph.D.  
Professor of Microbiology  
University of Alaska, Anchorage  
3221 Providence Drive  
Anchorage, Alaska 99504**

### PHYSICAL OCEANOGRAPHER

A staff position exists for a physical oceanographer at the Skidaway Institute of Oceanography of the University System of Georgia. Responsibilities involve full-time research in continental shelf dynamics. Requirements include a Ph.D. degree in physical oceanography. Salary is negotiable depending on experience. Applicants are invited to submit curriculum vitae, one-page summaries of research interests, and three letters of recommendation to the **Director, Skidaway Institute of Oceanography, P.O. Box 13687, Savannah, Georgia 31406, by 31 December 1975. An Equal Opportunity/Affirmative Action Employer.**

### PLANT ECOLOGIST

The Department of Biology, McGill University, invites applications for one position:

**Plant Ecologist.** An appointment at the assistant professor level, to begin on or before 1 September 1976. Duties to include undergraduate teaching, graduate teaching, and a strong research program. The application deadline is 1 January 1976.

Candidate will be chosen on the basis of demonstrated and potential research abilities and the capacity for graduate and undergraduate teaching. Ph.D. required.

Curriculum vitae, statements of research interests, and three letters of reference should be sent to: **Ms. E. Mader, Department of Biology, McGill University, P.O. Box 6070, Station A, Montreal, Quebec, Canada H3C 3G1.**

### POSTDOCTORAL AWARDS IN OCEAN STUDY

Applications invited for 1-year Postdoctoral Scholar Awards from new or recent doctorates in fields of biology, chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise and interest in marine problems.

Fellowship stipend is \$13,000. Appointees are eligible for group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in close association with resident staff. Application deadline is 1 December 1975 for 1976-77 awards. Awards will be announced 1 February 1976. Write for application forms to **Fellowship Committee, Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543.**

*Equal Opportunity Institution M/F*

### POSTDOCTORAL

**NIH Postdoctoral (National Research Award Program):** available immediately for research on radiation effects on biomembranes and cyclic nucleotide metabolism. Biochemical experience desirable; minimum salary of \$10,000. Maximum of 3 years. Send résumé and references to **Dr. D. F. H. Wallach, Division of Radiobiology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.**

## Government of Western Australia Office of the North West

### Project Manager Ord River Irrigation Area (Contract)

The State Government of Western Australia has recently established the position of Project Manager for the Ord River Irrigation Area. The appointment is for an initial period of three years, with the opportunity of renewal.

**SALARY:** To be negotiated, but within the range of \$A22 000-\$A24 000 per annum plus a district allowance of \$A1 256 per annum for a married appointee or \$A628 for a single appointee.

**QUALIFICATIONS AND EXPERIENCE:** Tertiary academic qualifications desirable, but with wide commercial marketing and management experience in related fields.

**DUTIES AND RESPONSIBILITIES:** Responsible to the appropriate Minister for the development of the project to a fully productive, economically viable, satisfying and socially sound project.

The appointee will be required to:

- initiate investigations into crops that may be grown and processed in the area.
- examine the area's requirements in the way of transport, communications, housing, water, power and other necessary facilities.
- initiate research into the establishment of secondary industries including the availability of reliable markets.
- examine the pastoral industry and its integration with the irrigation area, for the production of improved quality beef for overseas and Australian markets.

This will entail him working closely with Government Departments, Authorities, Shires, Companies and Local Community Groups.

It is envisaged that he will establish a number of Committees to assist and advise him.

**CONDITION OF SERVICE:** Five week's annual leave, three month's long service leave after ten years continuous service, generous cumulative sick leave entitlements.

**TRANSPORT:** Reasonable amount allowed for transport of married appointee and dependent family to Western Australia, provided bond entered into to serve the State for a period of one to three years according to amount of assistance given. Single persons receive assistance in the form of fares only.

**GENERAL:** The Ord River Irrigation Area is in the North of Western Australia 60 miles inland from the Port of Wyndham. Kununurra is the new townsite and administration centre for the Area. It has a current population of 1 800 people with schools, hospital and shopping and sporting facilities. The climate is tropical with summer monsoonal rains.

Already constructed is a large Dam storing 5 723 million cubic metres, a small Diversion Dam and channels and drains to service 12 000 hectares of irrigable land. The full potential is 70 000 hectares of irrigable land.

Crops such as cotton, rice, sorghum and peanuts have been grown. The maximum area cropped to date, is 6 000 hectares.

**ACCOMMODATION:** The Project Manager will reside at Kununurra where a house will be provided at \$21.50 rental per week.

**APPLICATIONS:** To state age, citizenship, qualifications and experience to the:

**Chairman  
Public Service Board  
111 St. George's Terrace  
Perth, Western Australia. 6000**

Closing December 19, 1975.

## POSITIONS OPEN

**PHYSIOLOGIST.** The Department of Zoology, University of Hawaii, is seeking applicants for a 9-month instructional position at assistant or associate professor rank beginning September 1976. Major responsibilities include giving an undergraduate course, with laboratory, in animal physiology, building a strong research program, and providing specialized instruction and research guidance for graduate students. While a specialist in some aspect of the physiology of marine organisms would be relevant to the existing departmental emphasis, the search will emphasize evidence of initiative and independence in pursuing an important research problem and the relevance of the candidate's program to the unique midocean, tropical resources available in Hawaii. Preference will be given to candidates with some previous teaching and research experience. Send a curriculum vitae, bibliography, recent reprints, and names of three references to: **Ian M. Cooke, Chairman, Search Committee, Department of Zoology, University of Hawaii, 2538 The Mall, Honolulu, Hawaii 96822.** Applications should be received before 1 February 1976. *An Equal Opportunity/Affirmative Action Employer.*

**PLANT PHYSIOLOGIST, Ph.D.** Undergraduate teaching position at small liberal arts college starting September 1976. Teaching responsibilities include genetics, plant physiology/anatomy, and introductory biology courses; strength in biochemistry required. Primary interests should be interaction with students and excellence in teaching. Send complete curriculum vitae, academic transcripts, statement of teaching interests, and three letters of reference to **Dr. David Richard, Rollins College, Winter Park, Florida 32789.** *An Equal Opportunity Employer.*

**POSTDOCTORAL:** One position will be available from January 1976 until June 1977 to study phosphorus and nitrogen cycling rates and exchanges in the water and sediments of the Pamlico River Estuary. Candidates should have interests and experience in field studies using tracer techniques (phosphorus-32 and nitrogen-15), and in modeling of biological and chemical processes of estuaries. Send résumé and three references to **Dr. Edward J. Kuenzler, Department of Environmental Sciences and Engineering, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina 27514.** *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL RESEARCH ASSOCIATE

Immediate opening for recent Ph.D. in chemistry or biochemistry. Research on chemical oncogenesis and interaction of oncogens with proteins and nucleic acids. Send curriculum vitae and two letters of recommendation to **Dr. Gerhard Stöhrer, Department of Chemical Carcinogenesis, Sloan-Kettering Institute for Cancer Research, 145 Boston Post Road, Rye, New York 10580.**

### ALASKA LEGISLATIVE STAFF PROFESSIONAL OPPORTUNITY

The Alaska State Legislature is receiving applications for **Research Analyst** positions with the Legislative Affairs Agency in Juneau, at salaries ranging from \$16,000 to \$25,000 per year. Persons applying for these posts should have a demonstrated ability to apply technical expertise and/or economic theory to complex public issues; they should be capable of communicating the implications of various policy alternatives to persons with nontechnical backgrounds. The successful applicants will probably have at least 6 years of professional education and/or experience, some of which will have brought them into contact with legislative decision-makers. Experience and present or prior residence in Alaska, though not mandatory, would be desirable.

Persons with program experience in the following areas (or allied fields) are particularly urged to apply:

**FISHERIES,** Renewable Resource Economics, Common Property Resource Management

**LAND USE MANAGEMENT** and Planning, Land Economics

**PUBLIC UTILITY REGULATION,** Government Regulation of Business, Transportation System; Planning

Applications and detailed résumés accompanied, if possible, by a representative sample of prior work, should be submitted to:

**Director of Research Services  
Legislative Affairs Agency  
Pouch Y  
Juneau, Alaska 99811**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available to individual interested in studies on CNS regulation of gonadotropin secretion, mechanism, sites of sex steroid feedback action, and interactions of monoamines and releasing factors. Training in reproductive endocrinology and some molecular biochemistry desirable. Available September 1976 and renewable for 1 year. Send curriculum vitae to: **Dr. C. A. Barraclough, Department of Physiology, School of Medicine, University of Maryland, Baltimore, Maryland 21201.** *An Equal Opportunity/Affirmative Action Employer*

### POSTDOCTORAL RESEARCH TRAINEESHIP IN DIGESTIVE DISEASES

Openings are available for research training in digestive diseases (NIH-supported). Applicants should have either an M.D. degree with appropriate postdoctoral clinical training or have a Ph.D. degree in basic science. Training period is for 1 to 3 years depending upon the needs of the applicant. Areas of training include characterization and regulation of intestinal digestive enzymes, study of gastrointestinal hormone receptors, hepatic lipid and lipoprotein metabolism, hormone radioimmunoassay, and controlled clinical trials in liver disease. Applicants should call or send curriculum vitae to **Gary M. Gray, M.D., Division of Gastroenterology, Stanford University School of Medicine, Stanford, California 94305.** Telephone: 415-497-4588.

**PROFESSOR OF ORGANIC CHEMISTRY.** An organic chemist of high scientific accomplishment is sought for appointment as full professor. The individual should have a distinguished record of research achievement and an interest in teaching. Applicants who may be interested in applying should send a letter of inquiry including a curriculum vitae in confidence to:

**Professor G. A. Segal, Chairman  
Department of Chemistry  
University of Southern California  
University Park  
Los Angeles, California 90007**

*The University of Southern California is an Equal Opportunity Employer.* Appointments will be made without regard to race, sex, or ethnic origin of the candidates, and all persons who meet the above qualifications are urged to apply.

The University of Oklahoma Health Sciences Center invites nominations and applications for the position of **PROFESSOR AND HEAD** of the Department of Anatomical Sciences. This position requires sound leadership ability as well as experience in teaching, administration, and research in anatomical sciences. Inquiries, including a curriculum vitae, should be sent to: **Joseph A. Kopta, M.D., Chairman, Search Committee for Anatomical Sciences Head, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190.** *An Equal Opportunity/Affirmative Action Employer.*

**RESEARCH ASSOCIATE—Ph.D.,** with expertise in mammalian cell karyotyping and preferably experience in cell fusion. The successful candidate will join cell fusion group, will be primarily responsible for doing independent research project, but will be given the opportunity to participate in teaching activities. Submit résumé to **Doctors Mansfield and Streips, University of Louisville, Health Science Center, P.O. Box 1055, Louisville, Kentucky 40201.** *An Equal Opportunity Employer.*

### RESEARCH ASSOCIATES

Squibb, a worldwide leader in the pharmaceutical and proprietary drug field has developed the following attractive opportunities at our Institute for Medical Research in Princeton, New Jersey.

**Research Associate.** Requires an M.S. degree with 1 to 3 years of experience in cell-mediated immunity, both in vivo and in vitro as well as appropriate experience in biochemical and radioisotope techniques.

**Research Associate or Research Assistant.** Requires a B.S. or M.S. degree with 1 to 3 years of experience conducting biochemical and pharmacologic investigations concerning the therapy of immediate hypersensitivity and other inflammatory diseases.

To explore these positions, qualified candidates are invited to forward their résumés to the **Recruitment and Selection Manager, Department RM, E. R. Squibb and Sons, Inc., P.O. Box 4000, Princeton, New Jersey 08540.**

*An Equal Opportunity Employer M/F*

## POSITIONS OPEN

### REGULATORY AFFAIRS

A leading pharmaceutical company in the Chicago suburban area has openings for managers in regulatory affairs. A Ph.D. in one of the medical sciences and experience in regulatory affairs are preferred. Candidates selected will handle liaison with FDA and other regulatory agencies, regarding marketed pharmaceuticals and research projects and provide scientific and regulatory input to other departments and project teams. Excellent starting salary and benefits. Send résumé, including salary history in confidence to:

**Box 466, SCIENCE**

*An Equal Opportunity Employer*

### SCIENTIFIC DIRECTOR DIAGNOSTIC LABORATORY

The New York State College of Veterinary Medicine is seeking a **Scientific Director** for its Diagnostic Laboratory. The Scientific Director is directly responsible to the Dean. The candidate and the Laboratory staff collaborate closely with a large community of veterinarians and other scientists throughout New York State working with disease identification and control. The incumbent will work with the faculty of the college in integrating the Laboratory into the teaching and research programs of the college. Approximately 40 employees provide the staffing of the facility.

The candidate whose major field of interest may be from any specialty concerned with disease identification and control should possess a D.V.M., M.D., or equivalent degree and demonstrate leadership qualities.

The Scientific Director will be a member of the faculty of the New York State College of Veterinary Medicine. The faculty rank and departmental affiliation will depend on the person's discipline and level of experience.

Applicants should send complete curriculum vitae, personal bibliography, and references to **Dr. E. C. Melby, Jr., Dean, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853.**

*An Equal Opportunity Employer*

### VASCULAR SURGEON

With interests in research; Department of Surgery, University of Washington School of Medicine; full-time position; *Equal Opportunity, Affirmative Action Employer.*

For additional information contact **Dr. D. E. Strandness, Jr., Department of Surgery, University of Washington School of Medicine, Seattle, Washington 98195.**

### VICE PRESIDENT FOR MEDICAL AFFAIRS

The George Washington University School of Medicine and Health Sciences is seeking candidates for the office of Vice President for Medical Affairs. This senior officer is a member of the President's immediate staff and serves the Trustees. He is the chief executive officer of the Medical Center and is responsible for all University health-related programs including the School of Medicine and Health Sciences, the University Hospital, the Ambulatory Care Division clinic, affiliated hospitals, and Allied Health Science programs. Candidates should have doctoral-level professional qualifications, in a field and of a quality suitable for professional appointment in a University department. Substantial senior administrative and executive experience, preferably in an academic health center or its equivalent, is necessary. Résumés should be sent no later than 15 January 1976 to the **Search Committee for the Vice President for Medical Affairs, George Washington University Medical Center, Warwick Building, 2300 K Street, NW, Washington, D.C. 20037.**

*George Washington University is an Equal Opportunity/Affirmative Action Employer*

## FRIEDRICH MIESCHER-INSTITUT

Basel, Switzerland

Applications are invited for a

### SENIOR STAFF APPOINTMENT

by suitably qualified candidates in the area of

### Genetics of Higher Plants, their differentiation or biochemistry

Candidates should have a wide experience of plant cell and tissue culture techniques. Salaries consistent with local regulations will be offered.

Applications with Curriculum Vitae and list of publications should be sent to: The Director.

**FRIEDRICH MIESCHER-INSTITUT**

P.O. Box 273, CH-4002, Basel, Switzerland

Application deadline: January 1, 1976

## Research & Development Chemists

The Diagnostics Division is seeking several Research and Development Scientists to participate in one of the most dynamic divisions of our major pharmaceutical firm.

Candidates are invited to apply who have any several of the qualifications as follows. The degree will be a Ph.D. or M.S. in one of the chemistries, with ability in immunochemistry, solid phase immobilization, antibody production and characterization, antigen-antibody or enzyme kinetics, radioisotope labelling. Active working experience in two of the above areas is highly desirable, with industrial experience preferred.

We will look for a strong track record of accomplishment in these areas as indicated by publications, patents, independent research experience. The persons we need are highly motivated, capable of independent work and/or of managing a research project, and have an energy level correspondent with the field of radiodiagnostics of today.

Abbott Laboratories is located in North Chicago, Illinois, midway between Chicago and Milwaukee, Wisconsin.

Please send resume with publications, references, and salary history and requirements in confidence to:

**ABBOTT** Louann Gonzalez  
NORTH CHICAGO, ILL. 60064 Professional  
Employment

Abbott is an Affirmative Action Employer

## Head of Cell Biology Laboratory

### EXPERIMENTAL BIOLOGY DIVISION

A senior scientist is needed to direct the scientific research program in Cell Biology. This person will determine future research direction for the Laboratory and will hold responsibility for professional development and scientific success of the Laboratory staff.

The candidate will be an associate or full professor, or hold an equivalent position in a health care industry or research institute. Background of successful research experience in Cell Biology, Biochemistry and/or Microbiology is essential. Specific areas of research should encompass the growth and regulation of eukaryotic cells in culture, and control of gene functions during growth and maintenance.

Abbott Laboratories is located in North Chicago, Illinois, midway between Chicago and Milwaukee, Wisconsin.

Please send curriculum vitae including publications, references and salary requirements in confidence to:

**ABBOTT** Louann Gonzalez  
NORTH CHICAGO, ILL. 60064 Professional  
Employment

Abbott is an Affirmative Action Employer

## FRIEDRICH MIESCHER-INSTITUT

Basel, Switzerland

Applications are invited for

### POSTDOCTORAL RESEARCH FELLOWSHIPS

tenable for up to 3 years

Research projects will be in the following areas: Gene regulation in eukaryotes, growth regulating substances, lectin interactions with cell surfaces, noradrenaline receptors, ribosome function and biosynthesis, RNA tumor virology.

Send Curriculum Vitae with full personal details and interest profile to: Dr. R. R. Burk

**FRIEDRICH MIESCHER-INSTITUT**

P.O. Box 273, CH-4002, Basel, Switzerland

Application deadline: January 1, 1976

## POSITIONS OPEN

### RESEARCH ASSOCIATE AND ASSISTANT IN PHARMACOLOGY

**Research Associate** (postdoctoral) and **Assistant** (B.S. or M.S.) positions are available immediately at the Peoria School of Medicine, University of Illinois, for work in drug abuse and drug interactions mainly in animals. Experience in biochemical pharmacology, toxicology, or analytical biochemistry desired. Salary is open. Send résumé not later than 1 December 1975 to: **Dr. F. Grundbacher, Acting Chairman, Department of Basic Sciences, Peoria School of Medicine, 1400 West Main Street, Peoria, Illinois 61606. The University of Illinois is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.**

### THE JACKSON LABORATORY

Invites applications for NIH Traineeships in (i) mammalian genetics, (ii) cancer biology, (iii) behavior genetics, and (iv) reproductive physiology. Trainees are sponsored by one or more scientists from 34-member research staff, whose interests are varied. Projects focus on genetic studies with mice or rabbits. Stipends \$10,000 to \$14,000. Open immediately. Appointments are for 1 year; some may be renewed for a second year. For further information write to **Dr. Robert L. Collins, The Jackson Laboratory, Bar Harbor, Maine 04609. Equal Opportunity/Affirmative Action Employer.**

## SYMPOSIUM

### INTERNATIONAL SYMPOSIUM ON ORGANIZATION AND EXPRESSION OF THE EUKARYOTIC GENOME

University of Tehran

2 to 6 May 1976

Organized by: **E. M. Bradbury** (chairman), **F. H. C. Crick**, **F. Gros**, **D. S. Hogness**, **E. W. Johns**, **K. Javaherian**, **B. J. McCarthy**, and **J. Paul**.

For further information write to:

**Dr. K. Javaherian**  
P.O. Box 14-1700  
Tehran 14, Iran

## WORKSHOP

**A WORKSHOP ON INDWELLING PRESSURE TRANSDUCERS AND SYSTEMS** will be held at Case Western Reserve University on 4 and 5 December 1975. Under the sponsorship of the National Institutes of Health, the workshop will explore the state of the art in the uses and new applications of indwelling pressure transducers in health care.

Persons interested in participating should contact either **Dr. Wen H. Ko, Director, Engineering Design Center, Case Western Reserve University, Cleveland, Ohio 44106** (telephone: 216-368-2934), or **Cecily M. Robbins, Assistant Conference Administrator, Verve Research Corporation, Suite 1412, 7910 Woodmont Avenue, Bethesda, Maryland 20014** (telephone: 301-656-7450).

## FELLOWSHIPS

**POSTDOCTORAL FELLOW:** NIH Fellowship for interdisciplinary research training in rheology in cardiovascular system (basic or clinical). One to 3 years. Requirements: doctoral degree in medicine, biological sciences, or engineering; U.S. citizen; career goal in cardiovascular research. \$10,000 plus. Immediate opening. Send résumé and two letters of recommendation to **Dr. Shu Chien, Department of Physiology, Columbia Medical Center, 630 West 168 Street, New York, N.Y. 10032.**

### POSTDOCTORAL FELLOWSHIP

To investigate nucleation and precipitation of cholesterol as relates to gallstone formation and atherosclerosis. Background in lipid chemistry and physiology is desirable. Write:

**Dr. R. Thomas Holzbach**  
Head, Gastrointestinal Research Unit  
The Cleveland Clinic Foundation  
9500 Euclid Avenue  
Cleveland, Ohio 44106

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIPS IN PHYSIOLOGY

Positions become available from time to time for persons with an M.D. or Ph.D. to conduct research as a member of a group in any one of the following areas: neurophysiology; electrophysiology and biophysical theory; membrane phenomena, biophysics and active transport; cellular neurophysiology; cardiovascular physiology; circulation; respiration; behavioral and sensory physiology; and physiology of the heart and muscle, or other related specialties. Applicants are expected to be familiar with advanced research techniques relevant to the area of interest and must have a strong academic background. Stipends usually range from \$10,000 to \$14,000 depending upon postdoctoral experience. Applicants should submit curriculum vitae with a list of publications and names of references to: **Professor Wilfried F. H. M. Mommaerts, Chairman, Department of Physiology, University of California, 53-259 CHS, Los Angeles, California 90024. The University of California is an Equal Opportunity Employer with an Affirmative Action Program. Women and minorities are encouraged to apply.**

Announcing **POSTDOCTORAL AND PREDOCTORAL FELLOWSHIPS** available at the University of California, Irvine, for studies on neoplasia. These fellowships will be awarded to qualified individuals on a competitive basis. The fellowship will extend for a period of 2 years postdoctoral and for a period of 4 years predoctoral. The program of research involves studies directed at the cellular, molecular, genetic, developmental, and clinical levels. Candidates have the opportunity to study with faculty members in basic science and clinical departments.

**Qualifications for postdoctoral:** Ph.D. or M.D. with specialization in genetics, developmental and cell biology, biochemistry, immunology, or microbiology.

**Applications from qualified candidates are welcome; minorities and women are encouraged to apply.**

For information write:

**Dr. Michael W. Berns**  
373 Steinhaus Hall  
Developmental and Cell Biology  
University of California, Irvine  
Irvine, California 92664

or

**Dr. Gale A. Granger**  
447 Steinhaus Hall  
Molecular Biology and Biochemistry  
University of California, Irvine  
Irvine, California 92664

### RESEARCH FELLOWSHIPS TO SWEDEN AND SWITZERLAND

The Fogarty International Center, National Institutes of Health, announces Swedish Medical Research Council and Swiss National Science Foundation research fellowships to provide postdoctoral training in basic or clinical areas of medical research. Candidates must have been engaged in independent research in one of the health sciences for at least two of the past 4 years with aptitude in basic or clinical research and an active interest in pursuing a research career. The applicant must arrange for his research training with the preceptor and present in his application a complete and explicit plan for research training and evidence of acceptance by a training institution. The fellowships will normally extend for 12 months.

They provide for health insurance and reimbursement for round-trip tourist air fare tickets for the fellow and his family. Stipends for the Swedish Medical Research Council Fellowships range from \$10,000 to \$13,600 per year, depending upon the number of years of postdoctoral research experience at the time of award. The Swiss National Science Foundation stipends range from 24,288 Swiss francs (\$9,533) to 30,624 Swiss francs (\$11,627), depending upon the age of the applicant at the time of award. In addition, Swiss National Science Foundation Fellowships provide 3,960 Swiss francs for the spouse and 1,200 Swiss francs for each child.

Application materials may be obtained from the **Swiss/Swedish Fellowships Section, Fogarty International Center, National Institutes of Health, Bethesda, Maryland 20014**. The deadline for receipt by NIH of completed applications is 1 January 1976. Applications will be reviewed for scientific merit at the Fogarty International Center. They will be forwarded to Sweden or Switzerland, as appropriate, for final selection and award in late spring 1976.

## FELLOWSHIPS

Two **POSTDOCTORAL FELLOWSHIPS** are now available to study pharmacological and immunological aspects of inflammation, including cell membrane receptors. Salary \$10,000 to \$10,500. Applicants should send a curriculum vitae to either **Dr. K. E. Eakins** or **Dr. W. Manski, College of Physicians and Surgeons, Columbia University, 630 West 168 Street, New York, N.Y. 10032. Columbia University is an Equal Opportunity Employer.**

**AN NRSA POSTDOCTORAL TRAINING PROGRAM IN DIABETES AND ENDOCRINOLOGY** at the University of Iowa offers research training in the following areas: (i) mechanisms of hormone action, (ii) experimental and clinical diabetes, (iii) hormonal regulation of cell replication, (iv) reproductive endocrinology, and (v) epidemiology of breast cancer.

One fellowship is available beginning 1 July 1976 and three are available beginning 1 July 1977. Candidates who hold an M.D. or Ph.D. degree and who are U.S. citizens or permanent residents should address inquiries (preferably with curriculum vitae) to **Dr. Daryl Granner, Department of Internal Medicine, University of Iowa, Iowa City, Iowa 52242. We are an Equal Opportunity/Affirmative Action Employer.**

### TWO POSTDOCTORAL FELLOWSHIPS IN THE EARTH AND PLANETARY SCIENCES

The Lamont-Doherty Geological Observatory of Columbia University invites scientists interested in any field of the earth and planetary sciences to apply for the following fellowships.

Two postdoctoral fellowships, each awarded for a period of 1 year (extendable to 2 years in special instances) beginning in September 1976 with a stipend of \$13,000 per annum. Completed applications are to be returned by 15 February. Application forms may be obtained by writing to the **Director, Lamont-Doherty Geological Observatory, Palisades, New York 10964.**

Award announcements will be made 31 March 1976.

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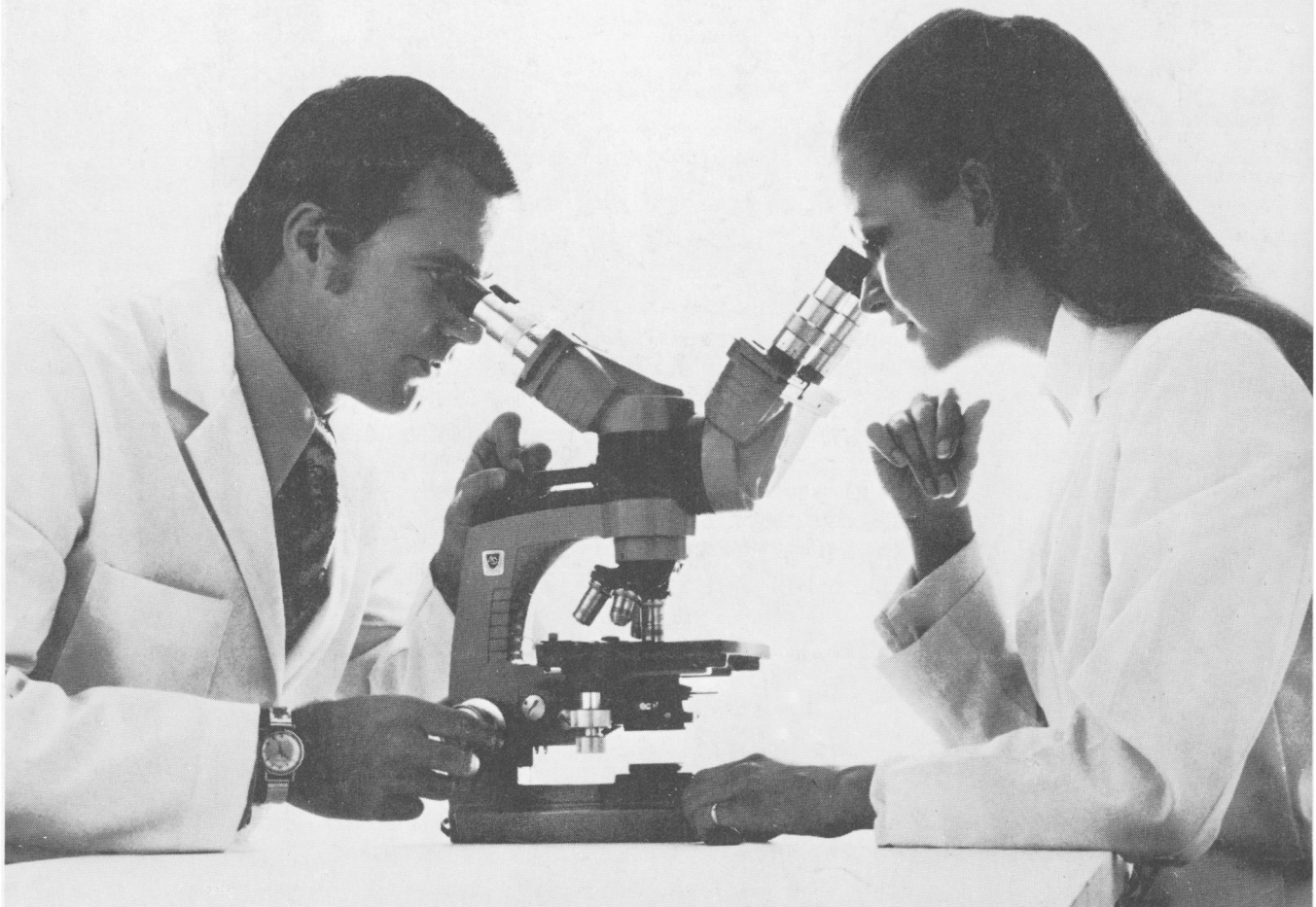
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