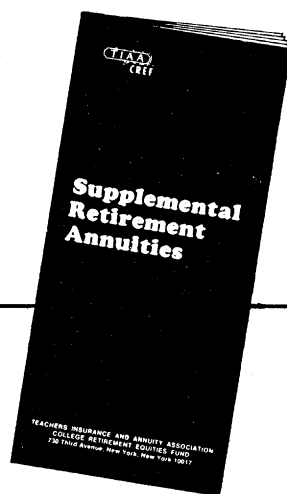


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wi

Personnel Placement

Anatomist, Ph.D. Seeking position teaching neuroanatomy, gross anatomy in medical school or neurobiology in a college. Experienced with publications, monographs, and grants. Box 385, SCIENCE. 9/6

Biochemist-Chemist; 33 years of age, Ph.D. 1966. Seeks teaching-research position or research supervisory position in industry. Five years as assistant professor. Publications. Teaching experience: chemistry-biochemistry of lipids, membranes, neurochemistry, natural products. Wide experience in analytical methods and their application to biochemical and chemical problems. Box 404, SCIENCE. X

Bioengineer, M.S. in electrical engineering 1974. Interested in biological, medical, and especially environmental problems. Open-minded as to position. Box 406, SCIENCE. X

Clinical Psychologist, M.S. plus 30 semester hours, VA internship, 20 years of experience—mostly outpatient, including supervisory and administrative. Basically a clinician, Ohio licensure. A Pied Piper with children and adolescents. Present salary \$16,000. Prefer Ohio or nearby. Thirty days. Box 405, SCIENCE. 9/13

Ethologist/Neurophysiologist, M.S., seeks challenging position in teaching, research, and/or consulting. Especially interested in communication. Extensive teaching and research experience. Box 407, SCIENCE. X

Industrial Pharmacologist, Recent Ph.D. Physiology M.S. Pharmaceutical consultant experience. Knowledgeable in Spanish and Fortran. Pilot. Doctoral research in pharmacological evaluation of new compounds. Desires industrial, governmental, or administrative placement. Box 396, SCIENCE. 9/6

Medical Editor with broad background in editing and publishing at senior level seeks challenging full-time or part-time assignments. Box 397, SCIENCE. 9/6

Microbiologist, Ph.D., biochemistry, microbial physiology, and cell biology background; teaching, research, publications, competence in electron microscopy, extensive experience. Seeks senior teaching and/or research position. Interested in microbial ecology, aquatic microbiology, water pollution. Box 408, SCIENCE. X

POSITIONS OPEN

ADMINISTRATIVE ASSISTANT TO EXECUTIVE DIRECTOR AT ASM HEADQUARTERS. A Ph.D. or M.S. level microbiologist is sought. Principal duties will involve assisting the Executive Director of ASM in matters involving intersocietal, society-government, and committee relationships. Formal education or experience in business or journalism will be considered a definite plus. Reply to **Dr. Robert F. Acker, American Society of Microbiology, 1913 I Street, NW, Washington, D.C. 20006.**

ASSISTANT PROFESSORSHIP

Starting January or August 1975. Research interests (vertebrate emphasis preferred) in developmental neurophysiology, cellular neurochemistry, transport physiology, or muscle physiology will be considered. Candidates should be interested in teaching an organismic physiology course. Send curriculum vitae and names of three references by 1 October to: **P. J. Megrew, Department of Zoology, University of Iowa, Iowa City, Iowa 52242.**

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ASSOCIATE PROFESSOR OF GEOLOGY at the University of Connecticut, with specialty in marine geology and geochemistry, to develop and conduct significant research in marine sedimentology, advise M.S. and Ph.D. degree candidates, and teach undergraduate and graduate courses in geology. Minimum requirements include extensive experience as principal investigator on funded projects, a substantial publication record, and university teaching experience. Starting date is January or September 1975; academic year salary range \$17,000 to \$21,000; headquarters at the Marine Sciences Institute. *The University of Connecticut is an equal opportunity employer.* Send résumé to:

**Director, Marine Sciences Institute
The University of Connecticut
Groton, Conn. 06340**

The **ANIMAL REPRODUCTION LABORATORY** is seeking a **RESEARCH ASSOCIATE** (Special) to participate in a bovine embryo transfer teaching, research, and service program. Duties will include manipulating embryos, preparing media, determining hormone levels in blood, coordinating record keeping, analyzing data, and some administration. Experience with manipulation of mammalian embryos and cattle husbandry desirable. Ph.D. in Reproductive Biology preferred. Salary \$800 per month. Position for 1 or 2 years. Contact **Dr. G. E. Seidel, Jr., Department of Physiology and Biophysics, Colorado State University, Fort Collins, Colorado 80521**. Letters of application and curriculum vitae must be received by 25 September 1974.

CSU is an equal opportunity employer. Ethnic minorities and women are encouraged to apply. In order to assist CSU's efforts to meet its equal opportunity goals ethnic minorities and women applicants are encouraged to identify themselves by adding an attached sheet.

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To supervise drug metabolism and pharmacokinetics projects. Minimum 3 years experience in biochemistry with some previous training in use of isotopes required.

Send résumé with salary history and requirements, in confidence to:

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A Ph.D. or equivalent in particle physics, physical chemistry, microbiology or meteorology is required. Send curriculum vitae to: **Chairman, Environmental Biology Department, Naval Biomedical Research Laboratory, Naval Supply Center, Oakland, California 94625**.

ASSISTANT PROFESSOR OF ANATOMY

An anatomist Ph.D. and/or M.D. with predoc- toral experience in an anatomical sciences training program and 2 to 3 years of postdoctoral experience in cell biology research. Must be in- terested in independent and/or collaborative re- search in cell biology, and teaching microscopic and developmental anatomy in integrated pro- grams for medical and graduate students. Salary will depend on qualifications. Apply to **Dr. G. Gordon Robertson, Department of Anatomy, Uni- versity of Tennessee Center for the Health Sci- ences, 875 Monroe Ave., Memphis, Tennessee 38163**.

Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR

Applications are invited from individuals highly qualified in any area of biochemistry for a position of Assistant Professor. Potential candidates will be expected to show promise of developing a vigorous research program and of the ability to effectively teach at both graduate and undergrad- uate levels. Men and women of all races and ethnic backgrounds having the Ph.D. degree and preferably postdoctoral experience are encouraged to apply by submitting curriculum vitae, a short statement of projected research problems and names of three referees (letters of recommenda- tion are not required at this time) to **Dr. B. Gimarc, Head, Department of Chemistry, Uni- versity of South Carolina, Columbia, S. C. 29208**.

An equal opportunity/affirmative action employer.

ASSISTANT PROFESSOR ANIMAL SCIENCES

The Department of Animal Sciences, Washington State University, is seeking applications for a position at the assistant professor level. Candi- dates must have a Ph.D. degree with training in animal nutrition and biochemistry. The position is 75 percent research and 25 percent teaching. The research program will relate to the nutritional and biochemical evaluation of food and livestock feeds. Teaching responsibilities will be in the area of nutrition at the undergraduate level and in the area of special competence of the selected candi- date at the graduate level. Interested persons may obtain additional information by writing to: **Richard J. Johnson, Acting Chairman, Depart- ment of Animal Sciences, Washington State Uni- versity, Pullman, Wash. 99163**.

WSU is an Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR

Department of Biochemistry, St. Louis Uni- versity School of Medicine. The Department is in- viting applications of well-qualified Ph.D.'s or M.D.'s in the fields of physical chemistry and molecular biology. One appointment will be made effective for September 1975. An ongoing research program or research proposal is essential. Good salary and initial research support are available. The Department is responsible for teaching both medical and graduate students. Applicants please submit curriculum vitae to **Dr. Robert E. Olson, Chairman, Department of Biochemistry, St. Louis University School of Medicine, 1402 S. Grand Avenue, St. Louis, Missouri 63104**.

The Department of **BIOLOGICAL SCIENCES** at the University of Southern California has sev- eral positions open. At assistant professor level:

- 1) **Biochemist**, preferably working in the areas of enzyme structure and/or regulatory mechanisms
- 2) **Developmental Biologist**
- 3) **Marine Population Ecologist**, preferably with major interest in phytoplankton
- 4) **Microbiologist** with interest and experience in bacterial physiology, animal virology, or molec- ular biology

Candidates must have teaching experience and commitment to a research program. Postdoctoral position: cyclic AMP metabolism. Send curricu- lum vitae to **Dr. Bernard C. Abbott, Department of Biological Sciences, University of Southern California, Los Angeles, Calif. 90007**.

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ϵ Adenosine 5'-diphosphate

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ϵ 2'-Deoxyadenosine 5'-triphosphate

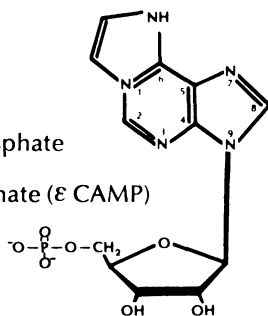
ϵ Adenosine 3',5', cyclic phosphate (ϵ CAMP)

ϵ Coenzyme A

ϵ Acetyl Coenzyme A

ϵ Nicotinamide-Adenine Dinucleotide (NAD)

ϵ AMP Structure Diagram



*The synthesis, properties and applications of these de- rivatives have been described in a series of articles by Dr. Nelson J. Leonard and associates at the University of Illinois, Urbana (eg. see: *Biochemistry* **11**, 3499 (1972). Write or call for full details:

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Applications are invited for the vacant chair in

PHYSICAL BIOLOGY

Preference will be given to a biologist, more specifically to a botanist with outstanding research experience in either photobiology or physiology of membrane functions, or both. The appointee will be responsible for the programs in teaching and research of the Department of Physical Biology (formerly known as the Laboratory of Plant Physiological Research). He will supervise the existing research programs of the depart- ment and stimulate new applications of physical methodology to the study of the biology of plants, animals, and micro- organisms. He will be expected to contribute proportionally to the teaching obligations of the Landbouwhogeschool, to- gether with the staff of the Department.

Applicants and those who want to make suggestions as to qualified persons are invited to address to the **Cabinet of the Faculty of the Agricultural Sciences, Salverdaplein 11, Wageningen, the Netherlands**, within 4 weeks after insert of this advertisement, supplying detailed information and men- tioning the number 74-87 on the envelope.

POSITIONS OPEN

BIOLOGY-BIOCHEMISTRY-ALLIED HEALTH

Faculty positions are available for the opening of the new campus of the University of Texas at San Antonio in the fall of 1975. Applicants are sought in most areas of biology and biochemistry including molecular genetics, cellular immunology, cell biology, neurobiology, biochemistry of membrane function, medical technology, and biology education. Applicants should have postdoctoral experience and must show strong accomplishments or potential in both research and teaching at the graduate and undergraduate levels. Rank and salary dependent upon qualifications and experience. Send curriculum vitae, most significant publications, and names of three references to: **Director, Division of Allied Health and Life Sciences, The University of Texas at San Antonio, 4242 Piedras Drive East, San Antonio, Texas 78285. An Equal Opportunity/Affirmative Action Employer.**

CLINICAL CHEMIST/LAB DIRECTOR

Mature, doctoral level individual needed to head branch laboratory to be opened soon in the Chicago area. Excellent growth situation. For the right person training in business and financial administration will be provided. Similar opportunities in other geographic areas will soon be available. Reply in confidence to **Bio-Science Enterprises, 7600 Tyrone Avenue, Van Nuys, California 91405. Attn: Facility Development. An Equal Opportunity Employer.**

DEAN, COLLEGE OF ARTS AND SCIENCES

State University of New York at Albany invites applications and nominations for the position of Dean of the College of Arts and Sciences, 31 departments, 500 full-time faculty, 7000 students. Only clearly qualified candidates will be considered. Please send letters and detailed résumés by 1 November 1974 to **Robert McFarland, Social Science 112, State University of New York at Albany, 1400 Washington Avenue, Albany, New York 12222.**



University of Idaho

The University of Idaho is continuing its search for a Dean of the College of Mines/Director of the Idaho Bureau of Mines and Geology. The College of Mines has undergraduate and graduate programs in Mining, Metallurgical and Geological Engineering, Geography (Regional Planning), Geology and Hydrology. The engineering curricula are ECPD accredited. Applicants should be qualified in one of these disciplines and should be experienced in teaching, research, and administration. Applications are due before 1 December 1974. The person selected may take office on 1 July 1975.

Interested persons with appropriate qualifications are asked to send their résumés to: **Dean John H. Ehrenreich, Chairman, College of Mines Search Committee, College of Forestry, Wildlife and Range Sciences, University of Idaho, Moscow, Idaho 83843.**

The University is an equal opportunity/affirmative action employer.

DEAN OF URBAN OUTREACH

The University of Wisconsin System is seeking a Dean of the Division of Urban Outreach. The position will be effective 1 July 1975. Deadline for filing applications is 15 October 1974. Position description may be obtained by writing: **Prof. Gerald T. Gleason, Chrm., DUO Search and Screen, Enderis 795, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201. An Affirmative Action/Equal Opportunity Employer.**

DIRECTOR OF UNIVERSITY HOSPITAL UNIVERSITY OF MICHIGAN

Responsible for the operation, maintenance, and administrative affairs of the University of Michigan Hospital, a 1050-bed university-owned teaching institution in a major academic medical center.

Minimum qualifications: A master's degree in hospital administration or related field; appropriate experience in a senior management capacity; and considerable knowledge of teaching hospitals and training programs.

Salary commensurate with qualifications and experience.

Respond by 3 October to:

**Herbert E. Sloan, M.D.,
Chairman, Director Search Committee
University Hospital
Ann Arbor, Michigan 48104**

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Scientific Communications Dept.

- Experienced medical writer
- Ability to analyze, interpret and organize clinical and scientific data
- Some government regulatory knowledge
- Degree(s) in Life Sciences
- All benefits
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Send complete résumé to:

Miss Freda K. Abel, Personnel Manager

The Purdue Frederick Company

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DIRECTOR

LABORATORY ANIMAL MEDICINE

D.V.M. with Ophthalmology training desirable and an interest in Laboratory Animal Medicine. Responsible for health of large colony of dogs, primates, and rodents on chronic toxicity studies. Excellent fringe benefits and salary commensurate with experience. Contact **John Ragen, Director of Personnel, International Research and Development Corp., Mattawan, Michigan 49071** (10 miles west of Kalamazoo). Phone: (616) 668-3336.

FACULTY POSITIONS IN PEDIATRICS

Specialists in ambulatory pediatrics allergy, cardiology, infectious diseases, neonatology pharmacology, and other pediatric disciplines who are Board certified and qualified for teaching positions are invited to submit their credentials and the names of three references to: **Dr. Sanford Cohen, Chairman, Department of Pediatrics, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, Michigan 48201.** Several faculty positions will be available during the coming year for individuals with excellent academic training and credentials. *An Equal Opportunity Employer.*

FACULTY POSITION

The University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences seeks applicants with a doctoral degree in physiology, pathology or related area. Research affiliation with the Biology Division, Oak Ridge National Laboratory. Rank and salary dependent on qualifications. Successful candidate will maintain viable research program and teach mammalian physiology at graduate level. Duties also include assisting in recruitment and advisement of students in minority research training program. *Minority applications encouraged.*

Send curriculum vitae and three references to: **Fred C. Hartman, Search Committee, University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences, Biology Division, Oak Ridge National Laboratory, P.O. Box Y, Oak Ridge, Tenn. 37830.**

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FACULTY POSITIONS—PHARMACOLOGY

Two assistant or associate professors to be appointed by 1 July 1975; (a) one pharmacologist, Ph.D. and/or M.D.; (b) one clinical pharmacologist, M.D. and Ph.D. or equivalent plus specialty qualifications. Salary to be negotiated. Duties include teaching and research. Applications including curriculum vitae and the names of three referees are to be sent to **Dr. M. C. Sutter, Head, Department of Pharmacology, University of British Columbia, Vancouver, Canada, V6T 1W5, by 1 December 1974.**

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UNIVERSITY OF SOUTHERN CALIFORNIA

The Department of Geological Sciences will have two positions open for junior faculty. Areas of interest are:

1) Low-Temperature Geochemistry. Environmental interests welcome. Position available as early as February 1975.

2) Mineralogy-Petrology. Position available for September 1975.

Please send résumés and the names of three references to: **Dr. Richard O. Stone, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007. Southern California is an Affirmative Action/Equal Opportunity Employer.**

GRANT ADMINISTRATOR

Ph.D. in biology, clinical biochemistry, or health related discipline. Work with science and new medical school faculty in securing public and private funding for research and instructional projects. Some travel to agency offices involved. Experience desirable but not essential. Some teaching available if desired. Salary to \$16,000 depending upon qualifications. Reply **Dr. A. R. Macon, Assistant Vice Provost for Research, Office of Research, University of South Carolina, Columbia, South Carolina 29208.**

IMMUNOLOGIST. To direct research and development on a Serological Test System used in the differential diagnosis of cancer. The individual will develop and conduct laboratory studies in the immunological detection of human neoplastic diseases, and interface with management in the production of marketable products. A Ph.D. in immunology/life science, with scientific achievement and/or development experience in immunology, fetal antigens, cancer biology or clinical science, RIA and HAI experience desired. Please send a résumé or brief letter outlining your qualifications to **Mr. H. Wayne Louder, Damon Corporation, 115 Fourth Avenue, Needham Heights, Mass. 02194. An Equal Opportunity Employer.**

IMMUNOPATHOLOGIST

Full time position. The Dartmouth-Hitchcock Medical Center invites inquiries from Board qualified or certified pathologists who are actively interested in the area of immunopathology and who have had both post-graduate training and some experience in this field. Additional post-graduate training in Internal Medicine desirable. Position involves participation in teaching medical students and residents, clinical service activities and an active interest in immunopathological research. Direct inquiries (including curriculum vitae) to: **George D. Sorenson, M.D., Chairman, Department of Pathology, Dartmouth Medical School, Hanover, N.H. 03755.**

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

The Department of Mathematics, Texas A & M University, College Station, Texas 77843, is accepting applications for assistant professorships. Those who have earned the Ph.D. in mathematics by fall 1975 will be considered. Applicants should show strong research promise and ability in teaching, along with specialization in applicable mathematics, particularly combinatorics, differential equations, matrix analysis, or probability. *Texas A & M University is an equal opportunity/affirmative action employer.*

First or second-year M.D. or Ph.D. fellow with biology or chemistry background to pursue studies in viral tumor immunology with the Cancer Research and Training Center at the University of Alabama in Birmingham.

Salary up to \$12,000 for a 1-year appointment as a Research Associate with second or third year negotiable.

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Send all responses to **Eddie W. Lamon, M.D., D.Sc., University of Alabama in Birmingham, University Station, Birmingham, Alabama. Telephone Number 205/934-4138.**

COMPUTER SCIENTISTS

A new Computer Sciences Department is being formed at Martin Marietta Laboratories. Several senior positions, including that of Head of the Department, are available.

Applicants should hold a Ph.D. degree or equivalent and have a significant record of accomplishment in one or more areas related to the principles of operation and application of computer systems to nationwide information services and data processing.

Please send detailed résumé and salary requirements to:

Martin Marietta Laboratories
Attn: Ms. C. Joyce Kidwell
1450 South Rolling Road
Baltimore, Maryland 21227

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BIOSCIENTIST (CYTOPATHOLOGY, CYTOCHEMISTRY, CYTOLOGY)

Bench level research M.D. or Ph.D. to assume responsibility for the development of biological, cytopathological, and cytochemical aspects of cancer detection program with vaginal and cervical specimens. The duties will entail collection, processing and documentation of samples; identification and classification of important cell types in the presence of extraneous material.

CYTOTECHNOLOGIST

Professionally trained, experienced technologist to be responsible for preparation, examination, and interpretation of exfoliated vaginal, cervical material. Duties will entail adopting and modifying staining techniques for flow systems analysis.

The University of California's Los Alamos Scientific Laboratory offers excellent working conditions and fringe benefits, including 24 days annual vacation, ample sick leave, and progressive retirement plan. Located high in the mountains of northern New Mexico, the living is uncrowded, casual; the environment is pollution free; the climate is superb—cool summers and mild winters; recreation opportunities abound.



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Division 75-C

Los Alamos Scientific Laboratory
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ASSISTANT INHALATION RESEARCH TOXICOLOGIST

Required at Toxic Hazards Research Laboratory in Dayton, Ohio

To perform and participate in a variety of research assignments pertinent to conducting environmental toxicology studies to determine the effects of environmental contaminants on living systems. The Toxic Hazards Research Laboratory is a unique facility equipped with automatically controlled exposure chambers designed for prolonged continuous and intermittent animal exposures.

Position requires college graduate with minimum of B.S. degree in biological sciences or chemistry and 2 years experience in applied toxicology or equivalent. Knowledge of inhalation techniques is essential.

Send résumé, including salary requirements, to:

Mrs. Lois A. Doncaster
UNIVERSITY OF CALIFORNIA
Overlook Branch, P.O. Box 3067
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POSITIONS OPEN

MEDICAL FACULTY POSITIONS IN BIOCHEMISTRY, NEUROSCIENCE, PHYSIOLOGY, BEHAVIORAL SCIENCE, IMMUNOLOGY-GENETICS

Mercer University School of Medicine, which has as its major goal the education of primary care physicians, plans to admit its first class in September 1976. Curriculum planning and building are now under way. The clinical facilities of the Medical Center of Central Georgia and other area hospitals will be used.

The University wishes to appoint as soon as possible men and women who are not only expert teachers and established and active scholars, but also eager to participate in developing an outstanding Basic Science curriculum. Rank and salary are open.

Nominations and applications should be accompanied by a complete and up-to-date curriculum vitae. An applicant should also request at least three colleagues to submit letters of evaluation.

Please address all correspondence to: Dr. George R. Bernard, Coordinator, Division of Basic Sciences, Mercer University School of Medicine, Macon, Georgia 30907.

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Research Scientist ATHEROSCLEROSIS

Opportunity for an experienced Scientist to join the dynamic multidisciplinary research team of the Diabetes-Atherosclerosis unit of our Pharmaceutical Research and Development Division. Applicants must be capable of independently developing and conducting a research program in the biological, biochemical and cellular aspects of atherosclerosis.

Candidates must have Ph.D., M.D., or Ph.D./M.D. degrees. Broad knowledge of the field of atherosclerosis is essential; strong background in cellular biology and/or pathology desirable.

Location: Kalamazoo, Michigan, a medium-sized community near lakes and recreational areas. Excellent living and working conditions.

Send complete résumé including salary history & requirements
to: M. F. Murray, Technical Employment Representative

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NEUROSCIENCES Research Section Head

Strong background in CNS pharmacology is required, to lead a group developing drugs for treatment of neurological diseases. Some direct laboratory involvement will be expected, to help expand the technical capabilities of the group of scientists at various levels through doctoral, and to explore alternative treatment approaches. At least 5 years of direct laboratory experience in CNS pharmacology, including supervision, is necessary.

CARDIOVASCULAR/AUTONOMIC

Research Section Head

Primary responsibility will be overall direction and supervision of the laboratories, and advancement of the development program for drugs in this area. Some direct laboratory involvement will be expected, to help expand the technical capabilities of the group of scientists at various levels through doctoral, and to explore alternative approaches. At least 5 years of direct laboratory experience in cardiovascular/autonomic pharmacology, including supervision, is necessary.

Please direct your inquiry, with résumé, in confidence to Mr. Robert Moberg, Director of Placement and Development.

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The suburban Washington, D.C., operation of EG&G/Mason Research Institute has openings for:

MICROBIOLOGIST—Ph.D. level with strong background in genetics and biochemistry to participate in bioassay development research program in chemical mutagenesis and carcinogenesis.

BIostatistician—Ph.D. or equivalent to conduct the statistical analysis of a major cancer research study involving the carcinogenic activity of chemical agents.

BIostatistician—M.S. or equivalent to assist in the analysis of patient data collected from a large clinical trial. Experience in mathematical modeling, analysis of biomedical data, and computer programming desirable.

Send curriculum vitae and salary history to:
Donald J. Barnes, EG&G/Mason Research Institute, 1530 East Jefferson St., Rockville, Md. 20852

The Worcester, Mass., operation of EG&G/Mason Research Institute has need for:

TWO BIOCHEMICAL PHARMACOLOGISTS—Ph.D. level—one to pursue studies on the mechanisms of action of anti-tumor drugs; one to pursue studies of drug metabolism. Candidates with experience in both fields are particularly desirable.

IMMUNOCHEMIST—Ph.D. or equivalent experienced in protein and enzyme separation by polyacrylamide gel or agarose electrophoresis.

Send curriculum vitae and salary history to:

Dr. Marcus M. Mason, President
EG&G/Mason Research Institute
23 Harvard Street
Worcester, Mass. 01608

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NEUROBIOLOGIST

Applications are invited for an appointment at the rank of Assistant Professor. Duties include teaching in the Department's undergraduate Honours program in Neurophysiology. Send applications with curriculum vitae and names of three referees to: Ms. Maria Olejar, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Quebec, H3G 1Y6 Canada.

PLANT PHYSIOLOGIST

Duke University invites applications from recent Ph.D.'s for a position beginning fall 1975. Phytotron facilities provide a unique opportunity for a physiologist interested in environmental effects. Both graduate and undergraduate teaching is expected. Applicants should send, before 15 October 1974, a curriculum vitae, details of research interests, reprints, preprints of papers, and letters from three references to Professor Aubrey W. Naylor, Chairman of Search Committee, Department of Botany, Duke University, Durham, North Carolina 27706.

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ASSISTANT RESEARCH IMMUNOLOGIST. Position open beginning 1 June 1975, to an individual with training in immunochemical and biochemical virology and immunopathology. Research programs are directed to isolation and characterization of viral agents and the pathogenesis of these agents in diseases in nonhuman primates. Salary to \$17,400. Write, including curriculum vitae, to Dr. B. I. Osburn, California Primate Research Center, University of California, Davis, California 95616. An equal opportunity and affirmative action employer.

POSITIONS OPEN

PHYSICAL CHEMIST

Faculty position, assistant professor, beginning 1 February or 1 September 1975. Experimentalist (Physical Chemistry) with research interests in one of the following areas: physical photochemistry, physical biochemistry, photobiology, magnetic resonance with emphasis on spin label studies, or other areas of biophysical interest. Candidates must have proven ability to conduct first-rate research and to teach courses both at graduate and undergraduate level. Applications from women and minority group members are particularly invited. Send résumé and names of three references to: **Dr. N. E. Geacintov, Chemistry Department, New York University, New York, N.Y. 10003.**

NYU is An Affirmative Action/Equal Opportunity Employer

PLANT BIOCHEMIST

Assistant Professor, Department of Chemistry, Ph.D. with 1 to 2 years of postdoctoral experience. Develop a vigorous research program in some aspect of plant biochemistry and participate in teaching of upper division graduate courses in general biochemistry. Send résumé and three letters of reference to: **D. C. Walton, Department of Chemistry, State University of New York College of Environmental Science and Forestry, Syracuse, N.Y. 13210.** *An equal opportunity/affirmative action employer.*

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE

Applications are invited from individuals interested in hormonal regulation of hepatic metabolism. Position available from January 1975.

Dr. Naomi Friedmann
Program in Physiology

The University of Texas Medical School at Houston
6400 West Cullen Street,
Houston, Texas 77025

POSTDOCTORAL FELLOW

Chemical modification of nucleic acids. Biochemical experience or familiarity with nucleic acid chemistry desirable. Start autumn 1974. Salary \$9000 per year. Send curriculum vitae and references to:

Prof. Robert Shapiro
Department of Chemistry
New York University
New York, N.Y. 10003

POSTDOCTORAL POSITION

Manager for an Environmental Protection Agency-sponsored project on "Maximum Utilization of Water Resources in a Planned Community." Duties include: administering overall grant, preparing monthly and annual reports, preparing technical reports for publication, evaluating technical progress of subcontractual work, and directing surface water hydrology sampling and monitoring programs. Applicant must have a working knowledge of applied hydrology. Position is available immediately. Salary is commensurate with qualifications. Call **Dr. W. G. Charaklis, Department of Environmental Science and Engineering, Rice University, Houston, Texas (713-528-4141).** *Rice University is an equal opportunity/affirmative action employer.*

POSTDOCTORAL RESEARCH

Position immediately available for individual with training in Molecular Biology, background in Microbial and Phage Genetics and an interest in the role of cyclic nucleotides in regulation in bacteria. Send curriculum vitae and two references to **Seymour Werthamer, M.D., Director, Department of Pathology and Clinical Laboratories, The Methodist Hospital, 506 Sixth St., Brooklyn, N.Y. 11215.**

POSTDOCTORAL RESEARCH POSITION

A 2-year postdoctoral research position for work related to deposition and retention of radioactive materials on vegetation. This research will involve the utilization of an environmental chamber. Experience in meteorology, radiation physics, or radioecology preferred with the ability to safely handle radioisotopes. Position open immediately. The work will be performed at The National Reactor Testing Station near Idaho Falls, Idaho. The appointment will pay a maximum of \$10,500 for a 9-month period during FY 1975 and a maximum stipend of \$14,000 for 12-month period in FY 1976. Certain additional costs will be allowed. (U.S. citizenship required.) For further information contact **Associated Western Universities, Incorporated, 136 East South Temple, 1005, Salt Lake City, Utah 84111.** *An Equal Opportunity Employer.*

POSITIONS OPEN

POSTGRADUATE RESEARCH POSITION. A research position dealing with pathogenetic mechanisms in respiratory diseases is available immediately. Ultrastructural aspects of pulmonary injury including histochemistry and autoradiography will be of primary concern. Ph.D. or D.V.M. required. Position will provide, for a D.V.M., training in comparative pathology and preparation for ACVP board certification. Send curriculum vitae to: **Dr. Walter S. Tyler, Director, California Primate Research Center, University of California, Davis, California 95616.**

RESEARCH OFFICER

Applications are invited for the post of Research Officer with the International Project in the Field of Food Irradiation, located in Karlsruhe, Federal Republic of Germany.

The successful candidate will be required to carry out research into the toxicological methodology of wholesomeness testing as applied to irradiated foods. The precise nature of the research will be determined according to the specific areas of expertise of the candidate selected for appointment who will assist in designing the research programme. Of particular interest to the Project are the problems associated with mutagenicity, carcinogenicity and teratogenicity testing.

Qualifications: Ph.D. or equivalent; several years of practical experience in toxicology or a closely related science. Fluency in English is essential and a working knowledge of German and/or French would be an advantage.

Conditions of service: The appointment will be on a yearly contract basis with the possibility of renewal, as a consultant to the Organisation for Economic Cooperation and Development. Salary, depending on qualifications and experience, will be within the range U.S. \$14,000 to \$19,000 net per annum (including expatriation and other allowances according to nationality and family circumstances).

Applications, accompanied by curriculum vitae, to be made in writing by 6 October 1974 to the **Project Director, International Food Irradiation Project, Institut für Strahlentechnologie, 75 Karlsruhe, Postfach 3640, Federal Republic of Germany.**

RESEARCH POSITIONS. Ph.D. degree, 1 to 3 years of experience is required. Immediate openings. A **CLINICAL-PSYCHOMETRICIAN** to administer and develop tests of aptitude, performance, and personality. Major emphasis on objective personality tests. Applicant should have extensive knowledge of tests, data collection, and analysis. A **SOCIAL PSYCHOLOGIST**, with extensive knowledge of field research, methodology, measurement, and scaling. Send complete résumé to **Khalil Khavari, Department of Psychology, The University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201.** *UWM is an equal opportunity employer.*

RESEARCH STAFF POSITION

Research in cancer and virus chemotherapy. Experience required in enzyme isolation, enzyme kinetics, and mammalian cell culture techniques. Position available now. Salary and rank are negotiable. Send detailed résumé and three letters of reference to **Dr. W. Prusoff, Department of Pharmacology, Yale University School of Medicine, New Haven, Connecticut 06510.**

FULL TIME RESEARCH TECHNICIAN IN PHYSIOLOGY

Biological and biochemical work in enzyme and hormone analysis. Familiarity in operation of spectrophotometers, ultracentrifuge, column chromatography, and other chemical laboratory experience required. Salary range \$7446 to \$9068 plus paid insurances and other fine employee benefits. Request an application, write, phone or send curriculum vitae to **David Gale, The Ohio State University Personnel Employment Office, 53 West 11 Ave., Columbus, Ohio 43201, 614-422-5304.** *OSU is an Equal Opportunity/Affirmative Action Employer.*

WATER RESEARCH

The Utah Water Research Laboratory, Utah State University, has two openings, one in each of the general areas of water quality biology and of environmental engineering. Minimum qualifications include a Ph.D. degree and some specific research experience in the water quality area. Salary and appointment commensurate with qualifications. Submit an experience résumé, transcript of university work, a brief outline of current research, and three letters of recommendation. Persons interested in research on effects of oil development, mineral extraction, and diffuse sources on the biological and chemical integrity of streams and lakes, and methods of treating municipal and industrial wastes in rural areas are invited to apply to **Dr. Jay M. Bagley, Director, Utah Water Research Laboratory, Utah State University, Logan, Utah 84322.**

PHYSICS LIBRARIAN

Coordinates development of the physics collection in the Science and Engineering Library. Provides a full range of reference services to faculty and students. Develops and implements specialized library orientation and instructional programs for physics students.

Bachelor's degree in physics with a MLS from an ALA accredited school required. A minimum of 2 years of experience as a librarian in an academic library and an advanced degree in physics are highly desirable but not required. Salary \$10,000 to \$15,000. Please direct inquiries to: **Dr. Arthur Cole, Libraries Personnel Officer, State University of New York at Buffalo, 308 Lockwood Memorial Library, Buffalo, New York 14226.** *An equal opportunity/affirmative action employer.*

COURSES

SANTA CATALINA MARINE BIOLOGICAL LABORATORY

We are pleased to announce our 1974 Fall Program of marine biology courses for graduate and advanced undergraduate students.

Comparative Physiology of Marine Animals, 3 October to 6 November.

Advanced Underwater Techniques, 3 October to 6 November.

Oceanology, 11 November to 17 December.

Marine Ecology, 2 January to 1 February.

Natural History of Santa Catalina Island, 2 January to 22 January.

During Spring 1975 a special undergraduate program of courses in marine biology will be available at our station on Santa Catalina Island. **RESEARCH OPPORTUNITIES and CONFERENCE FACILITIES** are available throughout the year.

For additional information, write **Russel Zimmer, Santa Catalina Marine Biological Laboratory, Box 398, Avalon, Calif. 90704** or phone (213) 746-6793.

REQUEST FOR PROPOSALS

TUMOR IMMUNOLOGY

The National Cancer Institute (NCI), National Institutes of Health, is interested in contracting for the following projects:

IMMUNOTHERAPY

Reference No. NCI-CB-53869-31—Quantitative Assays of Monocyte-Macrophage Function. RFP Available. Proposals due 9 December 1974.

Reference No. NCI-CB-53870-31—Preparation and Distribution of Rabbit Serum Complement. RFP Available. Proposals due 10 December 1974.

Reference No. NCI-CB-53871-31—Effects of Cancer Treatment on the Function of the Human Immune System. RFP Available. Proposals due 11 December 1974.

Reference No. NCI-CB-53872-31—Immunotherapy: New Approaches to Immunotherapy. RFP Available. Proposals due 12 December 1974.

Reference No. NCI-CB-53873-31—Immunotherapy of Disseminated Human Cancers in Combination with Optimal Conventional Therapy. RFP Available. Proposals due 12 December 1974.

Reference No. NCI-CB-53874-31—Cancer Immunotherapy: Phase I Study of Effects of Immune Stimulants on Human Immune Response. RFP Available. Proposals due 13 December 1974.

Reference No. NCI-CB-53875-31—Immunotherapy for Tumor Patients with No Detectable Disease or Minimal Tumor Burden. RFP Available. Proposals due 13 December 1974.

IMMUNOBIOLOGY

Reference No. NCI-CB-53876-31—Innovative Small Projects in Immunobiology. RFP Available. Proposals due 3 January 1975.

Reference No. NCI-CB-53877-31—Human Tumor-Associated Antigens and Corresponding Antibodies. RFP Available. Proposals due 3 January 1975.

Reference No. NCI-CB-53878-31—Detection of Antigen-Binding Activity of Transplantable T-Cell Tumors. RFP Available. Proposals due 3 January 1975.

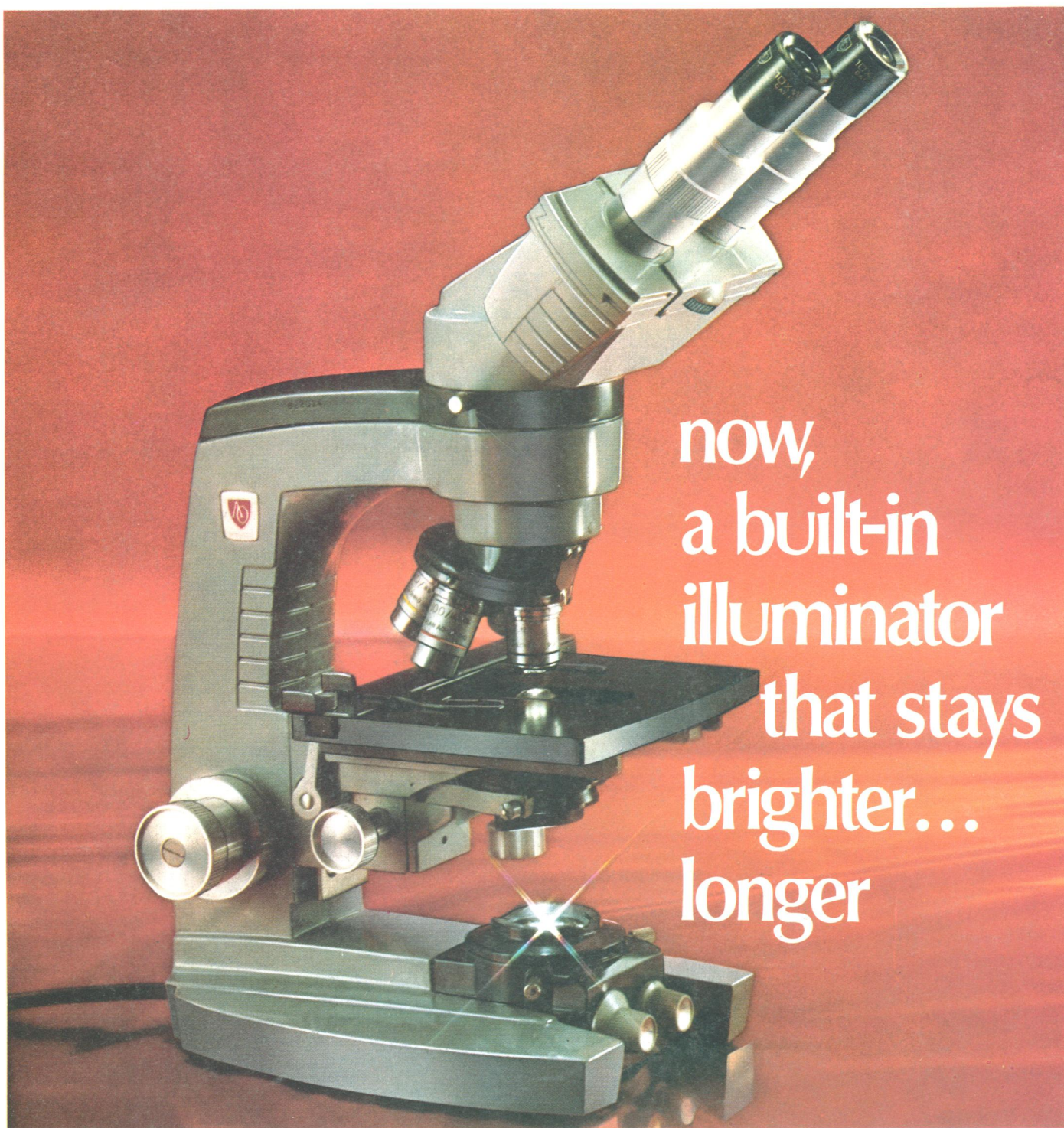
Reference No. NCI-CB-53879-31—Cell Surface Antigens Relevant to Tumor Immunology: Development of New Experimental Systems and Serologic Reagents. RFP Available. Proposals due 3 January 1975.

Reference No. NCI-CB-53880-31—Studies of the Mechanisms by Which Tumors Avoid Destruction by the Immune System. RFP Available. Proposals due 3 January 1975.

Reference No. NCI-CB-53881-31—Development or Improvement of Techniques for in vitro Sensitization of Human Lymphocytes. RFP Available. Proposals due 3 January 1975.

Reference No. NCI-CB-53882-31—Role of the Macrophage in Tumor Resistance. RFP Available. Proposals due 3 January 1975.

A request for proposal for each project listed above is available on or after 3 September 1974, by written request to **Contracting Officer, DCBD, Research Contracts Branch, National Cancer Institute, Room 1C-437, Landow Building, National Institutes of Health, Bethesda, Maryland 20014.** Request for RFP must cite the reference number(s) of the desired project(s) as shown above. Requests or inquiries must be in writing.



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the microscope base, out of the way.

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