Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no declarations. Any deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, priority ads are accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 2 weeks prior to issue date (mailed on issue date).

POSITIONS WANTED

40¢ per word, plus $4 for use of Box number, per week. $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth) $35.00 per line, $350 minimum, per week (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders and/or cover letter including billing address required for all other advertising.

Structure ad copy on a separate page, on lines of 52 characters and spaces, include any desired heading. Each line of heading and/or extra space, and blank lines are counted as full lines. To calculate cost, multiply total number of words by $0.02 = total cost of ad.

Send copy for all Positions Wanted ads and Line Classified ads less than 16 page in size (39 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555

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

Schraeger Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050

Bind ad replies should be addressed as follows:

Box (give number)
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Biotechnology Researcher, M.S. With industrial experience desires challenging laboratory position. Laboratory experience includes molecular biology, recombinant DNA, fermentation scale-up, microbial strain and process development, and utilization of radiosotopes. Separations techniques include: LC, HPLC, agarose/polyacrylamide electrophoresis, ultrafiltration, and supercritical fluid extraction. Box 234, SCIENCE.

Chemical/Medical/Business Writer: Seeks free-lance projects—all types. Will organize symposia, seminars, etc. Marsha E. Daman, Ph.D., P.O. Box 554, Bedminster, NJ 07921. Telephone: 201-234-2385.

Drug Metabolism/Disposition. Ph.D. With 2 years of postdoctoral experience desired in the pharmaceutical industry. Strong background in medicinal chemistry, pharmacology and toxicology. Extensive experience in analytical development. Box 225, SCIENCE.

Electron Microscopist, M.S. Ten years’ biological experience including TEM, SEM, x-ray microanalysis, and morphological techniques with computerized image analysis. Also looking for responsible position managing EM facility in industry or government. Box 4, SCIENCE.

Experienced Lab Technician seeks position handling poisonous snakes. Skilled microscopist and photographer, 5 years in tissue culture and protein chemistry. Contact George Morris, 110 Parker Street, Gouverneur, NY 13642.

Immunopathologist/Electrophoretist, Microscopist, Ph.D. Seeks position in comprehensively funded research laboratory in immunology, DNA hybridization, histochemistry, pathology or microscopy as director or administrator, 10 years’ experience in administrative/management/methodology. Box 2, SCIENCE.

1/23, 20

Marine Fisheries Biologist, Ph.D. age 60, retired from FAO and UNESCO. Ex university professor. Would like interesting opportunity in management, research, administration or teaching. Short-term or part- or full-time acceptable. Address: Harold Loesch, 2140 E. Scott, Pensacola, FL 32503.

1/23, 30

Neurochemist/Biochemist/Cell Biologist. Ph.D. Experienced researcher with broad background including receptor assays. Seeks position in research, administration or teaching (small college). Box 5, SCIENCE.

Statistician, Biologist, Computist (Ph.D. 1981). Have extensive research experience, abilities and publication, especially in evolutionary biology, genetics, ecology, scientific and general programming. Freelance projects desired in any area of science. Don Gilbert, P.O. Box 302, Bloomington, IN 47402. Telephone: 812-333-5616.

Technical Editor/Writer. Ph.D. in physics, but wide experience in many subjects: mechanical engineering, risk analysis, environmental studies, scientometrics, economics, others. Over 100 publications, plus book, Science, Nature, as well as four single-author books. In addition, can write for a lay audience: hundreds of newspaper articles, radio talks. I can handle your writing/editing projects without capital outlay on your part. I’ll do grant applications, library work, public relations writing, manuscript editing, speeches, manuals, many others. Competitive rates. Box 1231, Oak Ridge, TN 37830.

1/23, 30

Technical Writer, Ph.D. Twenty years of experience in research and writing for scientific, technical, and popular markets. Credits include fifteen books in three languages and articles in varied scientific and academic journals. Seeks freelance projects of all kinds, including manuals, software documentation, grants and proposals, library research, manuscript critiques and editing, ghostwriting, lectures, and speeches. Box 214, SCIENCE.

1/23, 30; 26, 13, 20

Translators: Extensive scientific background, five languages of major relevance, including Japanese, major cultural centers only. Box 6, SCIENCE.

POSITIONS OPEN

ANATOMY-NEUROBIOLOGY FACULTY POSITIONS
UNIVERSITY OF LOUISVILLE

As part of its continuing reorganization and modernization, the Department of Anatomy at the University of Louisville is recruiting for several new faculty and postdoctoral positions in developmental neuroanatomy. Individuals whose research utilizes cellular and molecular approaches will be given preference. Faculty applicants will be expected to participate in teaching neuro or microanatomy courses. Applicants will have the opportunity to participate in a vigorous research program. Rank and salary to be commensurate with qualifications and experience. Contact: Dr. Fred J. Roen, Chairman, Department of Anatomy, University of Louisville, School of Medicine, Louisville, KY 40292 by 27 February 1987. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

ANIMAL PHYSIOLOGIST: One-year position beginning September 1987 to teach courses in the candidate’s area of specialization in teaching introductory level biology. Submit letter of application, curriculum vitae, and names of three references to: Louise G. Malloy, Physiologist Search, Department of Biology, Bates College, Lewiston, ME 04240 by 15 February 1987. Bates College is an Equal Opportunity Employer. Minorities and women are encouraged to apply.

The DEPARTMENT OF BIOCHEMISTRY seeks applications for the Assis tant Professor level from excellent investigators with research interests in MOLECULAR PHARMACOLOGY. Departmental research strengths are in CNS and cardiovascular pharmacology. In addition to traditional alliances that the department maintains with the School of Medicine, strong collaborations exist with the neighboring Departments of Chemistry, Cell Biology and Chemistry, Endocrinology and Metabolism. Seeking an individual who would bring a unique perspective to the diverse interests of these collaborators. Ph.D. in a related field. Send letter of application and curriculum vitae to: Vijay C. Swamy, Department of Biochemistry, School of Pharmacy, Faculty of Health Sciences, 313 Hochstetter Hall, State University of New York at Buffalo, Buffalo, NY 14260. This advertisement represents a renewed search for the position advertised in this journal in 1986. Applications should be submitted by 31 March 1987.

An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, INSECT GENETICS AND TOXICOLOGY, 12-month tenure-track. Graduate and undergraduate teaching in insect genetics and toxicology. Conduct research that integrates genetics and toxicology. Examples include sex-reversal, insect/plant interactions, or developmental endocrinology. Ph.D. and research experience with arthropods required. Applicants should send letter of application, curriculum vitæ, list of relevant courses and names of five references to: Richard L. Jones, Department of Entomology, 219 Blass Hall, University of Minnesota, St. Paul, MN 55105. The University of Minnesota is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

The UNIVERSITY OF TEXAS AT DALLAS DEPARTMENT OF CELL BIOLOGY AND ANATOMY DIVISION OF ANATOMY

Invites applications from individuals with a strong commitment to research for a tenure-track position at the assistant professor level. Ph.D., M.D., or equivalent, experience in gross anatomy (preferably human anatomy) and at least 2 years of postdoctoral research training, preferably in neuroscience, are required. Responsibilities include teaching in the human gross anatomy courses, one first-year medical school course and participation in the department’s Graduate Program. Development of an independent research program. Curriculum vitae, description of research program, and the names of three references should be sent to: Dr. Robert J. Gossa, Ph.D., Acting Chairman, Department of Cell Biology and Anatomy, The University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9039. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORS OF BIOLOGY
TWO TENURE-TRACK POSITIONS

Two tenure-track positions in the Department of Sciences and Mathematics will be filled for fall 1987. A doctorate in the biological sciences near the degree will be considered. Applicants should be primarily committed to teaching, but research and interdisciplinary interests will also be considered. Applicants will include introductory biology and general undergraduate biology courses. For one position, emphasis will be on organisms, including both major groups. The salary range is $22,000 to $25,000. Screening will begin 15 March 1987. Send curriculum vitae, three letters of reference, and a statement of teaching success or a statement on teaching to: Dr. Richard W. Robinson, Chairman of the Search Committee, Uni versesity of Maine at Farmington, High Street, Preble Hall, Farmington, ME 04948.

The University of Maine is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

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SCIENCE, VOL. 235
Rice goals, technology, and application: who's research dates M.D. and extramural experience.

POSITION OPEN

ASSISTANT PROFESSOR

Department of Biology—Chemical Communication. Applicants are invited for a tenure-track position. Applicants should have a doctorate in physiology and/or biophysics and two or more years of postdoctoral training, or an M.D. and postdoctoral training. Candidates must demonstrate potential and excellence in research at a molecular or cellular level. The successful candidate will be expected to establish an active research program in immunology and participate in the undergraduate and graduate teaching programs of the department. Teaching responsibilities will include an undergraduate course in immunology with laboratory. Send curriculum vitae, statement of professional goals, reprints, and names of three references to: Michael A. Poirtier, Chairman, Department of Biological Sciences, Tulane University, New Orleans, LA 70148, by 15 March 1987. The University of New Orleans is a member of the Louisiana State University System, an Affirmative Action/Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF ANATOMY

The Department of Anatomy of The Ohio State University is seeking to fill a tenure-track position beginning 1 October 1987.

Candidates should have a Ph.D. in anatomy with teaching experience in histology and at least two years of postdoctoral experience. Teaching responsibilities will be in histology for professional and graduate students. The successful candidate will be expected to establish an independent research program in histology and is seeking an individual who would contribute to these programs. Research interests should be in the area of molecular, cellular, or histological techniques. Candidates are expected to establish a funded research program. Curriculum vitae and names and addresses of three references should be sent by 6 March 1987 to: James S. King, Ph.D. Professor and Chairman Department of Anatomy The Ohio State University 4066 Graves Hall 333 West Tenth Avenue The Ohio State University is an Equal Opportunity Employer.

ASSISTANT PROFESSOR OF ZOOLOGY, University of Arkansas-Fayetteville. Tenure-track positions available fall 1987. Genetics or cell biology are preferred areas of expertise. Qualified candidates should have a Ph.D., evidence of research productivity and funding, and ability to teach undergraduate/graduate courses in general biology and area of specialization. Preference will be given to qualified candidates with postdoctoral research in molecular biology. Review of applications will begin 1 March 1987 and continue until filled. Send curriculum vitae and names of three references to: Dr. C. J. Amlanker, Chairman, Department of Zoology, University of Arkansas, Fayetteville, AR 72701. An Equal Opportunity/Affirmative Action Employer.

LABORATORY ANIMAL WELFARE DEPARTMENT

The HUMANE SOCIETY OF THE UNITED STATES (HSUS)

ASSISTANT OR ASSOCIATE DIRECTOR position available immediately. Ph.D. in the biological sciences required. Duties include monitoring the scientific literature, analyzing individual research projects or entire areas of research from an animal-protection perspective, and participating in special projects and responding to constituents’ inquiries. Send curriculum vitae and the names and addresses of three references by 20 February 1987 to: Dr. Martin Stephens, HSUS, 2100 I Street, NW, Washington, DC 20037.

ASSISTANT SCIENTIST position for Ph.D. cell biologist-microbiologist to join active eye research group. Specific areas of interest will involve corneal inflammation, ulceration, and wound healing. Experience in cell biology, microbiology, histology, and immunology is essential. Send curriculum vitae and references to: Dr. Luigi L. Cavalli-Sforza, Chairman, Department of Genetics, Stanford University Medical Center, Stanford, CA 94305. Applications should preferably be submitted by 31 March 1987. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

ASSISTANT PROFESSOR/DEPARTMENT OF GENETICS

STANFORD UNIVERSITY

Having scientific interests in areas of human genetics and/or medical genetics. Full-time, tenure-track position that involves teaching and independent research. Send curriculum vitae, photograph and names of three referees to: Dr. Luigi L. Cavalli-Sforza, Chairman, Department of Genetics, Stanford University Medical Center, Stanford, CA 94305. Applications should preferably be submitted by 31 March 1987. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

BACTERIOLOGIST with interest in fundamental host-parasite/microbe-microbe/environment interactions and/or microbial diversity. Research emphasizes DNA probe technology, plasmid detection and molecular tagging is desired. Candidates with training in modern molecular biology will be favored. Ph.D./postdoctoral experience required. Teaching consistent with other science faculty. Start 16 September 1987. Assistant professor, 9 months, tenure track with possibility of extension to 12 months through Agricultural Experiment Station. Application closing date: 9 March 1987. Send curriculum vitae, transcripts and three letters of recommendation to: J. L. Frye, Chairman, Department of Microbiology, Oregon State University (OSU), Corvallis, OR 97331-3804. OSU is an Equal Opportunity/Affirmative Action Employer and complies with Section 504 of the Rehabilitation Act of 1973.

BENTHIC ECOLOGIST—A temporary marine scientist position is available immediately for a specialist in marine benthic and benthic ecology. This contract position provides support at an annual salary range of $23,276 to $25,752. Interested applicants should call or write: Dr. R. Van Dolah, Assistant Director, South Carolina Marine Resources Research Institute, P.O. Box 12559, Charleston, SC 29412; telephone: 803-795-6350 by 6 February 1987. An Equal Opportunity Employer.
UNIVERSITY OF WASHINGTON
SCHOOL OF OCEANOGRAPHY

BIOLGICAL OCEANOGRAPHY. We invite applications for a tenure-track faculty position for which the State of Washington will provide 6 months of salary support per year. The School of Oceanography has both undergraduate and graduate degree programs, and the successful candidate will be expected to teach in both his or her special area and in core courses. The level of the position is open.

Applicants should be active in process-oriented research in biological oceanography, with an emphasis on fundamental marine processes. Applications are invited from individuals with expertise in fluid dynamics, biogeochemistry, or modeling.

The Department of Biological Oceanography at the University of Washington is an Equal Opportunity/Affirmative Action Employer.

FERRIS STATE COLLEGE
BIG RAPIDS, MI 49307


Molecular biologist, Ph.D. in an area of biology or biochemistry with education and technical experience in recombinant DNA techniques. Academic rank and salary are open. Salary is competitive with other Michigan state-supported colleges and universities.

Send resume and other supportive information by 15 March 1987 to:
Dr. Mary R. Murnik, Head
Department of Biological Sciences
Science Building, Room 221
Telephone: 616-796-0461, extension 4850.

CHIEF, DIVISION OF MICROBIOLOGY AND IMMUNOLOGY
OTTAWA CIVIC HOSPITAL

The hospital, a 922-bed tertiary care teaching hospital associated with the University of Ottawa, invites applications for the position of Chief of the Division of Microbiology and Immunology within the Department of Laboratory Medicine. The Division is being formed through a merger of existing divisions of microbiology and immunology.

The successful candidate will be responsible for administering a clinical microbiology and immunology service and will be expected to develop a strong clinical and basic research program. The Loeb Medical Research Building, a 35,000 square foot facility on the Hospital Campus will be completed June 1987, and the overall budget for the new facility will be in the neighborhood of $10 million. The successful candidate will be expected to demonstrate leadership characteristics that are commensurate with the stature of the Division. The hospital has a long tradition of providing a warm and supportive environment for biomedical education and research.

Interested individuals should send curriculum vitae, names of three references and a one-page statement of qualifications to:
Dr. J. D. Grimes
Vice-President, Clinical and Research Administration
Ottawa Civic Hospital
1065 Carling Avenue, Ottawa, Ontario, Canada K1Y 4E9

BIOCHEMIST (Ph.D., D.O., or M.D.) faculty position available to teach and work independently and/or collaboratively with their own research/teaching faculty. Research more than 80 percent; teaching less than 20 percent. Multiyear contracts available. Salary and academic rank commensurate with training experience and grant track record. Please send resume, curriculum vitae with publications list and present grant support information to the University of Tennessee, Graduate Committee, Dr. Arnold L. Nagler, Associate Dean, Preclinical Medical Education, New York College of Osteopathic Medicine, Old Westbury, NY 11568.

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positions open

DEAN
COLLEGE OF ARTS & SCIENCES
UNIVERSITY OF NEW MEXICO

Applications/nominations are invited for position of Dean, College of Arts and Sciences. The College comprises 20 departments in areas of humanities, social sciences, mathematics, and natural sciences with 400 faculty offering undergraduate and graduate degrees. The College is the largest academic division of the University. Responsibilities include: 1) planning, implementing, and evaluating the teaching, research, and service functions of the College; 2) increasing student enrollment in the College; 3) increasing the teaching excellence of the faculty, 4) enhancing the scientific and national reputation of the College; 5) increasing the number of students who graduate; 6) increasing the number of faculty members who secure external funding; 7) increasing the number of students who receive major awards; 8) coordinating the activities of the College; and 9) working with the University administrative offices and with other university units. Experience in higher education administration is essential. Send applications to: John W. Raa, President, University of New Mexico, 1 University Plaza, Room 108, Albuquerque, New Mexico 87131.

positions open

COMPUTATIONAL VISION/ COMPUTATIONAL NEUROSCIENCE

The Department of Psychology, Northwestern University, invites applications for a new faculty position in computational vision and/or computational neuroscience. This appointment, at any level, is part of a university-wide initiative to develop a center of excellence in cognitive science. Candidates should have a strong background in neuroscience and computational sciences. Applications are also encouraged from candidates with a strong background in computer science. Applicants must have a Ph.D. and a strong record of research and teaching. Send a letter describing research and teaching interests, a curriculum vitae, and three or more letters of reference to: Dr. Richard Gregory, Department of Psychology, Northwestern University, Evanston, IL 60201. Northwestern University is an Equal Opportunity Employer.

ENDOTHELIAL CELL BIOLOGIST—The Milwaukee Heart Research Foundation is seeking a senior scientist with a Ph.D. or M.D. in cell biology or pathology, with experience in vitro and in vivo cell biology. The successful candidate will be expected to develop a cell biology laboratory. The University of Wisconsin Medical School—Milwaukee Campus Medical School—Milwaukee Campus, Box 577, Milwaukee, WI 53233. MMC is an Equal Employment Opportunity/Affirmative Action Employer.

ENVIRONMENTAL RESEARCH SCIENTISTS

The Holcomb Research Institute, Butler University, is seeking two research scientists for an expanding study of forest development under stressed conditions. The two positions are: 1) FOREST DEVELOPMENT SCIENTIST: to focus on forest growth analysis, dendrochronology, and environmental monitoring. 2) AIR POLLUTION SCIENTIST: to study the relationship of environmental factors on forest growth and the interactions of the various factors and their roles as stress agents. Research on other topics in which the individuals will help to define can be included. Applicants must possess a Ph.D. in forest science, environmental science, or a related field. Send applications to: The Dean, Holcomb Research Institute, Butler University, Indianapolis, IN 46208. An Equal Opportunity/Affirmative Action Employer.

Microbial Geneticists

ChemGen Corporation is an entrepreneurial company specializing in the development of bioprocesses for the production of specialty chemicals. The company has recently opened a research and development laboratory in Rockville, Maryland, and is seeking several qualified candidates. This is an opportunity for you to join a high-potential, fast-growing biotechnology company.

You will be responsible for designing and implementing a microbial strain improvement program to yield an industrial fermentation production microorganism. A Ph.D. with 0-5 years' post doctoral experience is required. Experience with yeast, fungi, or dissimilatory pathways in gram-positive bacteria is preferred.

Please submit resume in confidence to: ChemGen Corporation, 2501 Research Blvd., Rockville, MD 20850.

ChemGen Corporation is an equal opportunity employer.

ANALGESICS

This is a unique opportunity for an ambitious Ph.D. LEVEL ANALGESIC PHARMACOLOGIST to be part of a high energy level drug discovery team. A strong background in CNS Pharmacology is a plus.

Our team employs the most recent techniques in computer assisted drug design technology, by utilizing the Computer Automated Structure Evaluation (CASE) program. We are looking for a pharmacologist who will work closely with our theoretical and synthetic chemists, using artificial intelligence techniques to identify new chemical entities. A strong knowledge of the existing literature as well as familiarity with computer assisted design is an asset.

We offer a competitive salary with the opportunity for substantial growth. We are located in Northeastern Pennsylvania near the beautiful Pocono Mountains.

Send resume and salary requirements to:

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ASSOCIATE DIRECTOR
Banbury Center of Cold Spring Harbor Laboratory

In cooperation with the Preventive Medicine Institute/Strang Clinic, the Banbury Center is expanding its program of scientific meetings. The Associate Director will be responsible for organizing meetings on the origins and detection of human cancer. Information from these meetings will be disseminated via books for specialists and other publications for non-specialist scientists and clinicians. The Associate Director will also be closely involved in the Center's other activities, which include meetings and publications in biotechnology and risk assessment.

The successful candidate will have excellent organizational skills and a good knowledge of one or more of the following: cancer research, biostatistics and biotechnology. Writing and publishing skills would also be desirable. The importance of the post will be reflected in the salary and conditions offered.

The Banbury Center is situated on the north shore of Long Island, forty miles from New York City.

Please send applications and curriculum vitae to:
Steve Prentis, Director
Banbury Center
Cold Spring Harbor Laboratory
P.O. Box 534
Cold Spring Harbor, N.Y. 11724

Cold Spring Harbor Laboratory
An equal opportunity employer

BUILDING A NEW LAB?

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LAB AND WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036

Postdoctoral Position in Molecular Biology

A postdoctoral position is available at the Biotechnology Department of CIBA-GEIGY in Basle, Switzerland, to study the molecular biology and the genetics of gram-positive bacteria. The group is interested in developing microorganisms into an efficient agent for biological pest control.

Basic research will essentially concentrate on the expression and regulation of the cloned entomocidal toxin genes.

The suitable candidate will possess a Ph.D. in molecular biology or in related discipline with a good knowledge of recombinant DNA techniques.

The position is for one year initially and extendable for up to three years and offers an excellent opportunity to train in a scientifically exciting and active environment.

Applications including CV and two letters of reference should be sent under Ref. “Science 1207” to: Dr. M. Geiser, CIBA-GEIGY Ltd, Biotechnology Department, K-681.4.46, P.O. Box CH-4002 Basel/Switzerland.

CIBA--GEIGY
FACULTY POSITION IN MOLECULAR PATHOGENESIS

The Department of Microbiology and Immunology invites applications for a tenure-track position focusing on significant problems in bacterial pathogenesis using genetic and molecular approaches. Successful candidates will have a strong record of research accomplishment with sustained program growth and development. Junior candidates will be expected to develop a strong, independent research program with long-term potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The University of Minnesota, in addition to a number of affiliated institutions, is experiencing a rapid growth phase. The department has recently moved into a completely renovated building and will be appointing at least eight faculty members during the next several years. At least three faculty members are also being appointed in the Departments of Pharmacology and Biochemistry. A large Center of Excellence grant has resulted in development of a Molecular Resource Center within the department featuring state-of-the-art facilities for: DNA cloning and sequencing, oligonucleotide synthesis, peptide synthesis, monoclonal antibody production, recombinant protein expression, protein purification, and flow cytometry. Funds for the initiation of research programs will be available and salaries will be highly competitive. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference. Ronald K. Taylor, Department of Microbiology and Immunology, University of Minnesota, Minneapolis, MN 55455, U.S.A. The position is open until filled. Equal opportunity/affirmative action employer.

IMMUNOPATHOLOGIST/LABORATORY IMMUNOLOGIST: The Department of Pathology, University of Washington, invites applications for 2150 positions of a qualified individual with expertise in cellular immunology, histocompatibility testing and immunoresearch. The successful candidate will teach and conduct research activities in these areas as well as for the supervision of all flow cytometry from the department. In addition, teaching of research methods as resident and medical students will be expected. The candidate will have the opportunity to initiate and develop research programs both independently and in collaboration with other faculty members. A fellowship program in immunopathology is being organized which the candidate will assist in directing. Academic rank and salary are negotiable. Those with an interest in the above areas who are interested in developing research programs are encouraged to apply. Position available as of September 1, 1990. University of Washington is an equal opportunity employer.

LABORATORY DIRECTOR IN VITRO FERTILIZATION

Ph.D. to direct human I.V.F. and reproductive endocrinology in a full-time clinical laboratory, research, and academic faculty position in the Department of Obstetrics and Gynecology, George Washington University Medical Center, D.C. Experience required. Person must be able to participate in lower division mathematics and computer science instruction. Ph.D. required. Liberal fringe benefits including TIAA/CREF. Send resume and name of three references by 2 March 1987 to: Mathematics/Physics Search Committee, c/o Mr. Richard A. Silver, Affirmative Action Officer, SUNY Purchase, Purchase, NY 10577, Affirmative Action/Employer. Equal opportunity/affirmative action employer.

MATHEMATICS/PHYSICS FACULTY tenure-track opening possible at the assistant/associate level. Applied mathematics and modeling (especially biological systems) preferred. Mathematician must be able to participate in lower division mathematics and computer science instruction. Ph.D. required. Liberal fringe benefits including TIAA/CREF. Send resume and name of three references by 2 March 1987 to: Mathematics/Physics Search Committee, c/o Mr. Richard A. Silver, Affirmative Action Officer, SUNY Purchase, Purchase, NY 10577, Affirmative Action/Employer. Equal opportunity/affirmative action employer.

MOLECULAR BIOLOGIST

ASSISTANT PROFESSOR, TENURE-TRACK, to begin September 1987. Ph.D. and postdoctoral experience required. Research focus on developmental molecular genetics of plants, Drosophila melanogaster, or yeast. Previous experience in use of plant viruses or T1 plasmid as vectors for the study of gene expression in plants are particularly encouraged. Candidate will be expected to develop undergraduate and graduate-level courses, a biobased program and be expected to establish an independent research program. Applications received by 13 February 1987. Consideration will be given to those received after this date. Send curriculum vitae, description of research work and three references to: Professor Richard H. White, Chair, Search Committee, Biology Department, College of Arts and Sciences, University of Massachusetts (UMASS)/Boston, Harbor Campus, Boston, MA 02125-3393, An Affirmative Action/Equal Opportunity Employer. Title IX Employer.
Announcing a new book from AAAS

AIDS

Papers from Science, 1982–1985

Edited by
Ruth Kulstad, Science

Some of the most frequently cited papers on acquired immune deficiency syndrome (AIDS) that appeared in Science between August 1982 and September 1985 are included in this volume. Arranged chronologically, these 108 research papers and Science news reports show how far AIDS research has come and provide an indication of the directions in which it might go.

This fully indexed collection is useful not only for the experimental data and conclusions, but also as an excellent source of references to AIDS work in other major journals worldwide. An overview of research in AIDS to date is provided in the introduction by Dr. Myron Essex, chairman of the Department of Cancer Biology, Harvard University School of Public Health.

ca. 640pp.; fully indexed and illustrated
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Softcover $19.95, AAAS member price $15.95

Order from AAAS Marketing, Dept. A, 1333 H St., NW, Washington, DC 20005. Add $1.50 postage and handling per order. Allow 4–6 weeks for delivery.

American Association for the Advancement of Science
PLANT COMMUNITY ECOLOGIST—The Kansas Natural Heritage Inventory (operated jointly by The Nature Conservancy and the Kansas Biological Survey at the University of Kansas in Lawrence) seeks a Ph.D. or M.A. biologist with field botany experience to conduct a county survey in eastern Kansas to build the community portion of a statewide Heritage database. Salary range: $17,000 to $19,000. Send cover letter and supporting papers to Dr. Charles Shives, The Nature Conservancy, 1800 North Kent Street, Suite 800, Arlington, VA 22209. Equal Opportunity Employer.

PLANT PHYSIOLOGIST—The University of Richmond invites applications for a tenure-track position in plant physiology. The primary teaching responsibilities will involve general botany, plant physiology and molecular genetics. Preference will be given to candidates who will develop an active research program in botany at the molecular level involving both undergraduate and M.S.-level graduate students. Candidates must have the Ph.D. degree and postdoctoral experience is desirable. While it is expected that the appointment will be the assistant professor level, outstanding candidates at a more senior level are invited to apply. Submit resume, undergraduate and graduate transcripts, a statement of research plans and three letters of reference to: Dr. F. B. Lefliuch, Department of Biology, University of Richmond, VA 23173. Deadline: consideration of applications will begin on 15 February 1987. The University of Richmond is an Equal Opportunity Employer and encourages applications from women and minority candidates.

UNIVERSITY OF WASHINGTON SCHOOL OF OCEANOGRAPHY

PHYSICAL OCEANOGRAPHY: We invite applications for a tenure-track faculty position for which the state of Washington will provide 6 months of salary support per year. The Department of Oceanography has both undergraduate and graduate degree programs and the successful candidate will be expected to teach in his or her own specialized area and in core courses. The level of the position is open.

The candidate should be active in physical oceanographic theory or numerical modeling, with strong interest in geophysical fluid dynamics. The School has programs in general circulation, equatorial dynamics, ocean mixing and internal waves, and coastal dynamics. An "ocean climate" initiative, which will address large-scale circulation, ocean tracers, and atmospheric interactions is being developed in collaboration with the other discipline programs represented in the School. The University has a large number of faculty in related fields of atmospheric sciences, environmental chemistry, fluid mechanics, and applied mathematics.

Closing date for applications is 1 March 1987, although late applications and those from exceptional candidates with other expertise may be considered. Applicants should send curriculum vitae, and the names of three potential references to: Professor Brian T. R. Lewis, Director, School of Oceanography, W-10, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

Ph.D., ASSISTANT PROFESSOR level, DNA/molecular biologist/chemist, to work in a variety of cancer genetic projects. Excellent opportunity for creative person to work in a molecular biology research center. Send curriculum vitae to: Henry T. Lynch, M.D., Department of Preventive Medicine, Creighton University School of Medicine, 24th and S St., Omaha, NE 68178.

POSTDOCTORAL ASSOCIATE/INSTRUCTOR to work on the characterization of eukaryotic rDNA transcription factors, enhancer elements of rat rDNA, polyadenylation of specific mRNAs by structurally distinct poly(A) signal sequences, characterization of protein factor(s) and small nuclear RNAs involved in polyadenylation. Send curriculum vitae and three letters of reference to: Dr. S. T. Jacob, Professor, Department of Pharmacology and Cell and Molecular Biology Center, Pennsylvania State University College of Medicine, Hershey, PA 17033. Deadline: 10 March 1987. affirmative Action/Equal Opportunity Employer.

A position for a POSTDOCTORAL FELLOW is immediately available for studies in the mechanisms of immunological responses in primates. The position involves the use of recombinant DNA techniques to transfect simian cell lines in order to manipulate gene expression. The applicant should be familiar with techniques of plasmid isolation, transfection, and screening. Submit curriculum vitae and three letters of reference to: Dr. Edward Almouz, Department of Immunology, The University of Pennsylvania, Philadelphia, PA 19104. Equal Opportunity Employer.

POSTDOCTORAL POSITION (Pharmacology/Toxicology) to study the hepato- and nephroprotective properties of chemical metabolites. Experience in biochemistry and toxicology, and/or drug metabolism is desirable. Send resume and the names and addresses of three references to: Dr. Gary O. Rankin, Ph.D., Chairman, Department of Pharmacology, Marshall University School of Medicine, Huntington, WV 25704. Available on or before 1 July 1987. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available beginning May 1987 to join program on growth control and signal transduction mechanisms and their role in developing new approaches to cancer treatment. Experience in molecular or cellular biology is required. Send inquiries to: Dr. Ken-Pu Chiu, Department of Biochemistry or Dr. Thomas S. Thomas, Department of Pharmacology, University of Vermont Medical School, Burlington, VT 05405. An Equal Opportunity Employer.

POSTDOCTORAL POSITION in NUTRITIONAL SCIENCES at the University of Illinois at Urbana-Champaign. Positions involve fundamental and applied nutrition of animals or humans. Individuals with an M.D. or Ph.D. in nutrition or allied fields are encouraged to apply. Applications must be received by 30 April. Contact: Dr. J. A. Milner, Director, Division of Nutritional Sciences, 451 Beaver Hall, 905 South Goodwin, Urbana, IL 61801. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH OPPORTUNITIES DEPARTMENT OF BIOCHEMISTRY PURDUE UNIVERSITY

Positions are available offering training in: Gene Expression in Eukaryotes and Prokaryotes Protein Translocation Across Biological Membranes Regulation of Membrane Biosynthesis Regulation of Synthesis and Posttranslational Modification of Enzymes Structural Analysis of Protein and DNA Analysis of Enzyme Function by Site-Directed Mutagenesis

The faculty has extensive experience in training scientists in modern biochemical and molecular biological techniques and an impressive record of continued grant support. Interested individuals should send a resume, including names of three references of interest, to: Postdoctoral S, Department of Biochemistry, Purdue University, West Lafayette, IN 47907. Purdue University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in TOXICOLOGY at the University of Wisconsin, Madison: Research assistant in the general area of dioxin metabolism. Strong background in biochemical and molecular toxicology, experience in the metabolism of xenobiotics is desirable. Salary: $17,000. Position available immediately. Applications should include curriculum vitae and names of three references. Send to: Prof. D. T. Grover, Department of Pharmacology, University of Wisconsin-Madison, Madison, WI 53706. Equal Opportunity Employer.

POSTDOCTORAL Position available immediately for research on the mechanism of cell division in yeast. Experience in yeast genetics and molecular biology is required. Send curriculum vitae and names of three references to: Prof. L. DePamphilis, Department of Biology, University of California, San Diego. Equal Opportunity Employer.

POSTDOCTORAL Position available immediately for studies on the pathology of endotoxemia and lipoprotein and eicosanoid metabolism. Generation of new eicosanoid products and alterations in endothelial metabolism will be investigated. Experience with cell culture techniques, HPLC, pulmonary fluid dynamics, mecha-nochemistry of free radicals, and oxygen uptake and energy charge metabolism and biochemistry including ultracentrifugation is desirable. Send curriculum vitae and names of three references to: Dr. R. A. Flanders, Department of Medicine, New York Medical College (NYMC), Valhalla, NY 10595. NYMC is an affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in IMMUNOBIOLOGY, Developmental Biology, and Toxicology at the University of Colorado Health Sciences Center. Ph.D. degree in biochemical, biological, or medical sciences preferred. Send curriculum vitae and names of three references to: Dr. J. S. Lacy, Department of Anatomy, The University of Colorado Health Sciences Center, P.O. Box 62901, College Park, CO 80230. Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research on the mechanisms of signal transduction in amphibian eggs. Experience in amphibian embryology is desirable. Send curriculum vitae and names of three references to: Prof. Dr. Joaquim Costa, Department of Biology, University of California, Santa Cruz, CA 95064. Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research on the mechanisms of signal transduction in amphibian eggs. Experience in amphibian embryology is desirable. Send curriculum vitae and names of three references to: Prof. Dr. Joaquim Costa, Department of Biology, University of California, Santa Cruz, CA 95064. Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research on the mechanism of cell division in yeast. Experience in yeast genetics and molecular biology is required. Send curriculum vitae and names of three references to: Prof. L. DePamphilis, Department of Biology, University of California, San Diego. Equal Opportunity Employer.

POSTDOCTORAL Position available immediately for research on the mechanism of cell division in yeast. Experience in yeast genetics and molecular biology is required. Send curriculum vitae and names of three references to: Prof. L. DePamphilis, Department of Biology, University of California, San Diego. Equal Opportunity Employer.
Post Doctoral Training
In Molecular And Cell Biology

Post doctoral fellowships are available for training in various areas of cancer research including cell differentiation, chemical carcinogenesis, retroviruses, membrane biochemistry, genetics and immunology. The Wistar Institute, the oldest independent biomedical research facility in the nation, is located on the University of Pennsylvania campus in Philadelphia. Wistar is organized as a community of laboratories, uniting investigators whose broad research objectives are concerned with defining cellular and molecular characteristics and functions in healthy and diseased organisms. Wistar is equipped with the latest scientific technologies — DNA and peptide syntheses, flow cytometry and hybridoma facilities.

Strong background in molecular biology, virology, biomedical genetics and/or protein chemistry is required. Applicants are requested to send curriculum vitae and the names of three referees to Dr. Giovanni Rovera, Coordinator of Research Training, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104. Equal opportunity employer, M/F.

NIGERIAN UNIVERSITIES
SEVERAL ACADEMIC VACANCIES EXIST IN NIGERIAN UNIVERSITIES IN THE FOLLOWING BASIC SCIENCES:

1. BIOLOGY
2. BOTANY
3. BIOCHEMISTRY
4. CHEMISTRY
5. GEOLOGY
6. GEOPHYSICS, APPLIED
7. MATHEMATICS (PURE & APPLIED)
8. MICROBIOLOGY
9. MINERAL SCIENCE & TECHNOLOGY
10. PHYSICS
11. STATISTICS
12. ZOOLOGY

APPOINTMENTS WILL BE MADE AT PROFESSORIAL, ASSOCIATE PROFESSORIAL AND LECTURER LEVELS.

QUALIFICATIONS
ALL APPLICANTS ARE EXPECTED TO HOLD PH.D OR OTHER RESEARCH DEGREES AND TO HAVE CONSIDERABLE NUMBER OF YEARS OF TEACHING AND/OR RESEARCH EXPERIENCE.

*INTERESTED APPLICANTS SHOULD SEND SIX COPIES OF THEIR DETAILED RESUME TO:

OFFICE OF THE EDUCATION ATTACHÉ
EMBASSY OF NIGERIA
2010 MASSACHUSETTS AVENUE, N.W.
4TH FLOOR
WASHINGTON, D.C. 20036

*APPLICATIONS ARE ALSO WELCOME FROM UNIVERSITY PERSONNEL WHO WOULD LIKE TO SPEND THEIR SABBATICAL LEAVE/S IN NIGERIAN UNIVERSITIES.

PLEASE NOTE THE SALARY SCALE PER ANNUM OF:

FULL PROFESSOR
READER
SENIOR LECTURER
LECTURER I
LECTURER II

<table>
<thead>
<tr>
<th>Position</th>
<th>Full Salary Range</th>
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<tr>
<td>FULL PROFESSOR</td>
<td>N14,280–15,720</td>
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<tr>
<td>READER</td>
<td>N12,732–15,372</td>
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<tr>
<td>SENIOR LECTURER</td>
<td>N11,364–14,820</td>
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<td>N 9,000–10,080</td>
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<tr>
<td>LECTURER II</td>
<td>N 7,550–8,162</td>
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NIGERIAN UNIVERSITIES:

1. UNIVERSITY OF SUGBURY
2. UNIVERSITY OF DASSA
3. UNIVERSITY OF ABUJA
4. UNIVERSITY OF IBADAN
5. UNIVERSITY OF Ibadan, Medical College
6. UNIVERSITY OF KADUNA
7. UNIVERSITY OF LAGOS
8. UNIVERSITY OF MAKARI
9. UNIVERSITY OF NIGERIA
10. UNIVERSITY OF ODELO
11. UNIVERSITY OF PORT-HARCOURT
12. UNIVERSITY OF TABUK

PENN STATE BIOTECHNOLOGY INSTITUTE

FACULTY POSITIONS IN PLANT AND MICROBIAL BIOTECHNOLOGY

Applications are invited for faculty positions at the academic ranks of Assistant, Associate, or Full Professor in the Penn State Biotechnology Institute. The positions can be joint appointments within appropriate academic departments of the Colleges of Agriculture, Engineering, Medicine, or Science. Initial recruiting will focus in two areas: (1) Development of plant cells for chemical production which includes the molecular biology, natural product chemistry, and cell culture of plants and microalgae, and (2) Development of microbes for new uses which includes the biochemistry, molecular biology, and culture of all microorganisms. Emphasis is placed on high quality fundamental research that will lead to products useful to society. Appointees will be located in the newly constructed Biotechnology Institute Headquarters Building, which contains several specialized preparation facilities and service laboratories including those for macromolecular synthesis and sequencing, molecular graphics, hybridoma screening, diversified cell culture using automated bioreactors and fermentors, and chemical analysis. Review of applications will begin on March 6, 1987, and continue until the positions are filled. Candidates should submit a curriculum vitae, a brief research description, and have three letters of reference sent to Br. John E. Branchley, Director, Biotechnology Institute, The Pennsylvania State University, 105B South Frear Building, University Park, PA 16802. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

Pathology & Toxicology Research (BS/MS)

The Pathology and Toxicology Research Group of The Upjohn Company has several staff openings for qualified research associates. Primary responsibilities will be to determine the toxicity of new chemicals and to study the mechanisms of toxicity. Successful candidates will have a BS or MS in biochemistry, biological or biomedical science, at least one year of relevant laboratory experience and must not have a history of allergies.

Biology Assistant: Will design and conduct experimental studies regarding the mechanisms of toxicity and the effects in laboratory animals; utilize standard laboratory equipment; prepare protocols and technical reports; familiarity with computers, cardiovasual physiology and/or pharmacology highly desirable. Position number is 20485-A.

Biochemistry Assistant: Study the mechanisms of compound toxicity requiring application of in vivo and in vitro techniques which include the operation of laboratory equipment (chromatograph, LSC, spectrophotometer, and radiochemical methods); conduct biochemical studies utilizing laboratory animals; assist in presentations and preparation of scientific manuscripts. Position number is 20099-A.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers the opportunity for career growth, a competitive salary commensurate with experience, a comprehensive benefits program and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-8600, ext. 3-6767. (inside Michigan call collect 616/323-6787) to request an employment application be sent to you immediately. Please refer to one of the above position numbers when calling.

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POSTDOCTORAL POSITION OPEN

POSTDOCTORAL POSITION OPEN

POSTDOCTORAL POSITION AVAILABLE

A postdoctoral position is available immediately to study immune-mediated neuropathy and will involve development of advanced cell culture techniques to study phenotypic and genotypic expression of primary cells and cultured cell lines. Background in cell culture technology and cell biology are required. Knowledge of gastrointestinal physiology and molecular biology is preferred. Appointment for 3 years. Salary range is $59,000-70,000 plus benefits. For application 1 March 1987. Send curriculum vitae and three references to:

Dr. Eugene B. Chang
Department of Medicine, Box 400
University of Chicago
5841 South Maryland Avenue
Chicago, IL 60637

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS immediately available to study the electrophysiology and pharmacology of cardiac arrhythmias and neuropharmacological control of hypertension. NRS Training Grant. U.S. citizenship or permanent residence required.

Send curriculum vitae to: Dr. Charles Antzelevitch, Masonic Medical Research Laboratory, Utica, NY 13504. Telephone: 315-735-2217.

POSTDOCTORAL POSITIONS available to study cellular mechanisms involved in insulin secretion. Biochemical approaches are employed to study the role of lipid-degrading enzyme in signal transduction event including inositol phosphates, arachidonic acid and the regulation and function of intracellular Ca²⁺ in insulin secretion. Please send curriculum vitae and three references to: Dr. Michael L. McDaniel, Department of Pathology, Washington University, Box 8118, St. Louis, MO 63110; Telephone: 314-362-7435. Washington University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—RETINAL PHYSIOLOGY. Available 1 March 1987 to study transmitter receptors in isolated retinal ganglion cells using patch clamp. Salary is $22,000 plus full health plan. Write: Gordon L. Fain, Professor and Associate Director, Jules Stein Eye Institute, University of California, Los Angeles (UCLA), School of Medicine, Los Angeles, CA 90024.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available for recent doctorate with experience in protein characterization and purification. The appointee will participate in a project at the University of Toronto in collaboration with other academic institutions and industry. Apply by sending a résumé that includes at least three references to: Dr. Geoffrey W. Henson, Pharmaceutical Research, Merrell Dow Pharmaceuticals Inc., 1401 King Road, West Chester, PA 19380.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION for a person trained in cellular or molecular biology or virology to study the central nervous system infection caused by HIV. Both tissue from infected patients and cell cultures will be used to investigate the damage and brain infection and the basis of HIV neurotropism. These studies are part of a combined clinical and laboratory program investigating AIDS, related diseases and AIDS-related CNS infection by HIV. Send curriculum vitae and names of three references to: Richard W. Price, M.D., Department of Neurology, Memorial Sloan-Kettering Cancer Centre (MSKCC), 1275 York Avenue, New York, NY 10021. MSKCC is an Equal Opportunity Employer M/F/H.

POSTDOCTORAL OR RESEARCH ASSOCIATE positions immediately available for training in immunology and molecular immunology. A molecular approach to the study of the expression and regulation of immunoglobulin V-region genes in two model systems, anti-carbohydrate (Dr. Marcus) and anti-protein (Dr. Thomas). An exciting academic environment and opportunity for advancement. Salary is available. Experience in recombinant DNA techniques is preferred. Send curriculum vitae and names of two references to: Dr. James Thomas, Department of Medicine, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.
Molecular Biologist/ Microbiologist

Syva, a subsidiary of Syntex, is a leader in the medical diagnostics field—developing, manufacturing and marketing tests to diagnose infectious diseases and to detect and quantify clinically significant substances in patients' body fluids. We currently have an opportunity available for a Molecular Biologist/Microbiologist.

You will develop non-radioactive nucleic acid hybridization based diagnostic products, as well as develop methodology for the isolation and rapid detection of pathogen nucleic acids in clinical isolates.

A broad background in molecular biology/nucleic acid biochemistry/microbiology is required; ancillary experience in enzymology/assay development would be helpful. Also requires a PhD with at least 1 year post doctoral experience, plus the creativity and energy to turn ideas into workable products.

Syva offers a competitive salary and benefits package and a stimulating research environment where scientific excellence and achievement are highly rewarded. For confidential consideration, please send your resume and references to Syva, Professional Staffing, Dept. DPSC, P.O.Box 10058, Palo Alto, CA 94303. An equal opportunity employer.

ASSOCIATE EDITOR

SCIENCE MAGAZINE

Editorial position available for a Ph.D. biochemist or molecular biologist with two or three years of research experience; specific capability in structural biochemistry, immunology, and enzymology; wide general interest in biological sciences; and publications in the refereed literature. Initial duties will include editing manuscripts for clarity and style. Progress to wide responsibilities in manuscript selection is expected. Previous editorial experience not required. This is a full-time position in our Washington, D.C. editorial office.

Please submit résumé with cover letter, including salary requirements to:

Carolyn Bell
SCIENCE Magazine
1333 H Street, NW
Washington, DC 20005

We are an Equal Opportunity Employer.

BIOCHEMISTS/ IMMUNOCHEMISTS - SAN DIEGO -

HYBRITECH INCORPORATED, the recognized leader in monoclonal antibody-based immunoassays, currently seeks candidates with experience in immunoassay development, specifically EIA or RIA. Responsibilities include antibody purification, antibody protein conjugation chemistry and enzyme kinetics. Positions are available for individuals with solid phase chemistry experience Ph.D. in biochemistry/chemistry or equivalent and one to three years industry experience is required.

RESEARCH SCIENTISTS - Candidates will have experience in protein isolation and characterization immunoassays, monoclonal antibody applications and knowledge of immunology. Responsibilities will include development and transfer of new diagnostic products. Ph.D. in biochemistry/chemistry or equivalent required. Postdoctoral experience preferred.

HYBRITECH offers a stimulating and rewarding work environment, competitive salaries and excellent company paid benefits. Please send your resume and salary history to: Human Resources Department, Hybritech Incorporated, P.O. Box 269006, San Diego, CA 92126.

An Equal Opportunity Employer.
RESEARCH ASSOCIATE

The Department of Surgery, Section of Pediatric Surgery, University at Buffalo, State University of New York, School of Medicine and Biomedical Sciences, seeks an M.D. or Ph.D. research associate to direct ongoing project in tumor immunology. A M.S. or Ph.D. is required with experience in this area. Submit curriculum vitae and letter of interest to: Donald R. Cooney, M.D., Children’s Hospital of Buffalo, 219 Bryant Street, Buffalo, NY 14222. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE: Ph.D. or M.D. to study the role of CRF and IL-1 in the metabolic-endocrine response during smallpox. Applicants with a background in smallpox research are required. Concurrent appointments at Harvard Medical School and Massachusetts General Hospital. Send resume to: Hans H. Brode, M.D., Sheinman Burns Institute, 51 Blossom Street, Boston, MA 02114. An Equal Opportunity Employer.

RESEARCH SCIENTIST– IMMUNOLOGY

The DEPARTMENT OF IMMUNOLOGY AND INFECTIOUS DISEASES OF THE RESEARCH INSTITUTE OF THE PALO ALTO MEDICAL FOUNDATION seeks an M.D. or Ph.D. with at least 2 or 3 years postdoctoral experience. Additional training in molecular biology/cell biology highly desirable. Applicants must be capable of establishing an active, independent research program which would be a component of a larger unit in the area of host resistance to infection.

The Research Institute of the Palo Alto Medical Foundation is a well-equipped, not-for-profit institute located in downtown Palo Alto near the Stanford University campus.

Send curriculum vitae, a description of research interests and plans, and names, addresses, and telephone number of at least three references to Dr. Jack S. Remington, Chairman, Department of Immunology and Infectious Diseases, Research Institute, Palo Alto Medical Foundation, 360 Bryant Street, Palo Alto, CA 94301.

RESEARCH SPECIALIST/TEACHING LABORATORY MANAGER

Full-time position starting 1 April 1987 to provide logistical laboratory support for advanced courses in developmental and cell biology. In consultation with Embryology Course Committee, plan and set up all equipment and supplies required for laboratory exercises and provide general logistical support for Laboratory’s program. Must have knowledge of laboratory equipment, including electrophoretic apparatus, ultracentrifuges, and light and electron microscopes. Experience with technical aspects of handling hands-on technical support. Salary $25,000 to $35,000 per year plus benefits. Submit resume to: Personnel, Genetic and Molecular Biology Laboratory, Wood Hole, MA 02545. March 17, 1987. Affirmative Action/Equal Opportunity Employer.

SENIOR RADIOCHEMIST: The Nuclear Reactor Laboratory is soliciting qualified applicants for a senior level position in radiochemistry and trace analysis. Applicants should have 10 years of experience in trace analysis with a major emphasis on instrumental and radiochemical neutron activation analysis. In addition to thorough familiarity with thermal and fast neutron activation analysis, both prompt and delayed, applicants should have a good understanding of other trace analysis techniques with photon activation analysis, atomic absorption and x-ray fluorescence.

A strong publication record in biological, geological, or environmental research is a requirement. Proven ability to write proposals and obtain research funding is important. The applicant will be expected to develop a funded research program with funding from outside sources to support the applicant and at least a single group of associates. Experience in administration and supervising the research of graduate level students and of junior level research scientists is also required. The applicant should have a Ph.D. in chemistry. Depending upon qualifications, salary will be in the range of $50,800 to $55,000 per year.

To appear as a member of the cover letter and resume to: Oretta Perry, MIT Personnel Office, E19-239, 77 Massachusetts Avenue, Cambridge, MA 02139.

MIT is an Equal Opportunity/Affirmative Action Employer.
Research Scientists

We’re Praxis Biologics, a research-driven, results-oriented company recognized as a pioneer in the development of pediatric vaccines. We currently seek two dedicated professionals with Ph.Ds or equivalent to join our staff of Research Scientists. These positions require from 3–8 years of experience, preferably in molecular biology, DNA research, gene cloning or biochemistry. A background in the expression of foreign genes in bacterial systems would be an advantage, but is not essential.

For prompt, fully confidential consideration, please send your resume including salary history to: Human Resources Department, Praxis Biologics, 300 East River Road, Rochester, NY 14623.

An equal opportunity employer, m/f.

Creative BioMolecules, Inc., a biotechnology company developing products for the human health care markets, seeks highly motivated and well qualified candidates to join our research and development team. Successful candidates will have a Ph.D. with a minimum of three years experience and a demonstrated record of accomplishment. Positions available are:

**Protein Chemistry**
Applicant should have extensive experience in protein chemistry, including purification and characterization of proteins from recombinant hosts.

**Molecular Biology**
Applicant should have expertise in recombinant DNA technology including construction and screening of DNA libraries, and expression in mammalian hosts.

Creative BioMolecules offers competitive salaries and comprehensive medical/dental plan. Please send resume to Personnel Department.

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The fastest growing research-oriented pharmaceutical company in the U.S. has the following opening with its Research and Development group located in Chapel Hill, North Carolina.

**SECTION HEAD, CARDIOVASCULAR PHARMACOLOGY**

As a key member of our Molecular Pharmacology Department, you will be responsible for conceptualizing and organizing a drug discovery program in the cardiovascular area. The qualified candidate will also be involved with the preparation of IND and NDA documents with reference to heart function and hemodynamics.

Background should include a Ph.D. and/or MD specializing in pharmacology, cardiology, or cardiovascular pharmacology with 4+ years of industrial experience pertaining to drug discovery in some or all of the following: cardiacotonic, hypertension, antiarrhythmics, arteriosclerosis, and myocardial ischemia. Candidate must possess in-depth knowledge of cardiac physiology and first hand experience in one or more of the following: regional blood flow, renal function and respiratory function. A general working knowledge of biochemistry and autonomic/receptor pharmacology is desirable.

Your abilities and potential will be recognized with a competitive starting salary and benefits package. Our location, in the heart of North Carolina, offers a mild climate year round, access to some of the finest universities in the country, numerous cultural activities and nearby recreational facilities. For prompt consideration, please forward your resume, including salary history, to:

Dept. 86-290E-SC
(No Phone Calls, Please)
No Private Agency Referrals, Please

Glaxo Inc.
P.O. Box 13398, Research Triangle Park, N.C. 27709
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PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with a doctorate-level degree in science the opportunity to earn the doctor of philosophy degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. M. Chapman, Program Director, The New England College of Optometry, 424 Beacon Street, Boston, MA 02115; Telephone: 617-266-2036; extension 147.

FELLOWSHIPS

CURATORIAL FELLOWSHIP

IN SYSTEMATICS

AMERICAN MUSEUM OF NATURE HISTORY

The Museum invites applications for systematists with Ph.D.'s interested in innovative theoretical or empirical research. Training and interests should include new or promising approaches, methodologies, techniques, or philosophies in systematic and evolutionary research in zoology and paleontology. Botanists whose research involves interactions with zoological systematics and their collections will also be considered. The primary responsibility of the Curatorial Fellow will be to conduct an active research program; the Fellow will also participate in other Museum activities including administration, collection, curation, exhibition, and education. Curatorial Fellowships are equivalent in rank and responsibilities to curatorial appointments in the private sector. The position will begin on or after 1 July 1987, and is renewable annually with a limit of 5 years. Rank and salary will be determined on the basis of qualifications and experience. Interested applicants must submit the following information by 15 March 1987: (i) curriculum vitae, (ii) statement of research interests, (iii) 3 references, and sample publications, and (iv) contact information, including telephone numbers, for at least three professionals acquainted with the applicant's qualifications and accomplishments. Submit to: Mr. Lee Vilensky Personnel Department American Museum of Natural History Central Park West at 79th Street New York, NY 10024 An Equal Opportunity Employer

GRADUATE FELLOWSHIPS IN MOLECULAR MICROBIOLOGY

The Department of Microbiology at the University of Vermont invites applications from persons interested in a career in molecular microbiology. Biochemical, immunological and molecular genetic techniques are being used to study: cytoplasmic factors affecting maintenance and control of the carcinogenic state; sexual development in higher fungi; bacterial regulation and function analysis of genes controlling self-incompatibility and sexual development; determinants of bacterial virulence; mechanisms of bacterial adhesion; host tissue and biological implants; response of eukaryotic cells to toxins, hormones and viruses; regulation of protein synthesis in eukaryotes; studies on increasing bioavailability of fiber by manipulating adhesion of ruminal bacteria. Full tuition remission and tax-free stipend approximately $8400 per year. Write: Dr. Thomas J. Mooring, Department of Microbiology, The University of Vermont, Giffen Building, Burlington, VT 05405

The Institute of Ecosystem Studies (IES) of The New York Botanical Garden will award one IES summer fellowship for a 3-month period during summer 1987. These awards provide short-term research opportunities for Ph.D.'s to do ecological research as part of the IES program. Award recipients will be housed in a 3-bedroom apartment in New York City. A diversity of terrestrial, wetland and stream habitats, as well as excellent laboratory facilities, is available on the 779-hectare site. Award provides travel to and from IES, a $5000 research stipend, and limited funds for research supplies. Application should have a Ph.D., an ecosystem orientation, and be interested in collaborative multidisciplinary research. Send, with a letter of application, curriculum vitae and names of three references by 1 March 1987 to: Dr. Jonathan J. Cole, Institute of Ecosystem Studies, The Mary Flagler Cary Arboretum, Box AB, Millbrook, NY 12546. An Equal Opportunity Employer.

FELLOWSHIPS

NIH STAFF FELLOWSHIP/ NIH VISITING FELLOWSHIP

MOLECULAR BIOLOGY/GENE THERAPY

The Development and Metabolic Neurology Branch, National Institute of Neurological and Communicative Disorders and Stroke, National Institutes of Health, Public Health Service, invites applications for NIH Staff Fellowship or NIH Visiting Fellowship position. This postdoctoral position is available to study regulation of genes following viral and plasmid; whole organisms using retroviral vectors and recombinant adenoviruses. The candidate will be expected to study regulation of human g lobin and hynos ial enzyme genes. Experience in one or both areas is highly desirable: eukaryotic molecular biology, hemopoiesis or mouse embryology. For the NIH Staff Fellowship program, candidates must be U.S. citizens or resident aliens apply and must have a doctoral degree or equivalent. For the NIH Visiting Fellows Program, candidates may be resident alumni of the program as described above. Applications will be considered beginning on or after 1 July 1987. The position is located in Bethesda, Maryland. For position information and qualification requirements, applicants may telephone: Mr. Wallace Holland, Personnel Management Specialist, 301-496-6334. Interested candidates should send curriculum vitae, a brief statement of research interest, and the names of three (3) references to: Dr. Stefan Karlsson, IRP, DMNB, NINCDS, National Institutes of Health, 9000 Rockville Pike, Building 10, Room 3D04, Bethesda, MD 20892; Telephone: 301-496-3285. An Equal Opportunity Employer

GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION

(CSEOL)

AND THE DEPARTMENT OF LIFE AND ENVIRONMENTAL SCIENCES

OF THE UNIVERSITY OF CALIFORNIA AT LOS ANGELES (UCLA)

CSEOL invites applications for three first-year predoctoral fellowships for 1987–88. Stipends are each $9000 for 12 months with no teaching or other duties. Fellows are included in a select group of fellow Fellows and other graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out thesis research under the supervision of a CSEOL faculty member and in a subject area related to the study of the evolution, broadly conceived, of the life, of Earth, of the environment, of humans. Areas of particular interest for 1987–88 include (i) the origin of life; (ii) Precambrian and Neoproterozoic biotic evolution and phylogeny; and (iv) the interface between molecular biology and the known fossil record. Faculty members of the UCLA Center for the Study of Evolution and Environment (CSEOL) are Kelly E. Hare, John M. J. Morgan, and William S.缘n. For application forms and a list of CSEOL members, contact: CSEOL Fellows Committee, Geol- l Building, Room 5687, University of California, Los Angeles, Los Angeles, CA 90024; Telephone: 213-825-1170.

FELLOWSHIPS

INTERNATIONAL CANCER RESEARCH FELLOWSHIP

The Hayashiura Memorial Fellowship, a nonprofit prize-making organization within the Hayashiura Group, announces a fellowship program. Two awards will be made annually. Fellowship will be taken up at the newly opened Fujisaki Cell Center which is devoted to basic and applied research related to the problems in human cancer. The fellowship is normally made for 1 year and is renewable up to 3 years. The fellowship will be expected to commence within 6 months of the announcement of the awards. The awards are for high-quality research work in one of the three categories described below:

1. Fundamental Leukemia-Lymphoma Research
2. Cytokine-Lymphokine Research
3. Hematopoietic Cell Cultures

Qualified person who has a Ph.D., an M.D., or equivalent qualifications will be awarded on merit to critically qualify fellowship research proposal and procedures. Additional information and application forms will be obtained from: Jun Minowada, M.D., Director, Fujisaki Cell Center, 675-1 Fujisaki, Okayama 702, Japan.

ECOLOGIST

A postdoctoral fellowship in Ecology is now available at The Ecosystems Center of the Marine Biological Laboratory. Applications from both terrestrial and aquatic ecologists will be considered, but the focus of the applicants' interests should be on ecology at the ecosystem level. The successful applicant must have completed the Ph.D. degree before start of fellowship (no later than 1 September 1987). He or she will be expected to work collaboratively. Applicants should send curriculum vitae, short statement of research interests, and the names and addresses of at least three references to: Dr. John Hobbie, Director, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543. An Equal Opportunity Employer.

ECOSYSTEMS ECOLOGIST/MODELER

The Ecosystems Center of the Marine Biological Laboratory is seeking applications for a postdoctoral level of assistant scientist/assistant professor. The successful applicant will be expected to work collaboratively with a diverse group of terrestrial and aquatic ecologists and especially to help strengthen research using simulation models. All applicants should have postdoctoral experience, with a broad background in ecosystem-level ecologi- cal models. Experience in computer simulation is required. Applicants should send curriculum vitae, short statement of research interests, and the names and addresses of at least three references to: Dr. John Hobbie, Director, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543. An Equal Opportunity Employer

A limited number of POSTDOCTORAL FELLOWSHIPS positions will be available in the fall of 1987 for research in marine sciences and ocean engineering. Research areas include physical oceanography, macroalgal botany, invertebrate larval biology, zooplankton biology, invertebrate reproduction and development, fish ecology and behavior, mechanical engineering, and environmental engineering. Deadline for application is 1 April 1987. Specify area of interest with request for information brochure and application packet from: Dr. Marsh J. Young, Postdoctoral Fellowships Program, Harbor Branch Oceanographic Institution, Incorporated, 5600 Old Dixie Highway, Port Pierce, FL 34680. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS (M.D. or Ph.D.) for advanced training involving basic and clinical research of relevance to biological psychiatry available from the Mental Health Research Center for Psychiatric Disorders at the University of Pittsburgh. $16,000 to $23,000 annually commensurate with experience. Applications for fall 1987 Fellowships should be postmarked by May 15, 1987. Applicants should send copies of curriculum vitae, statement of research interests, and three letters of recommendation. Contact: Ms. Hermi Rofah, West- Virginia University, P.O. Box 6-1213, 3811 O'Hara Street, Pittsburgh, PA 15213.

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