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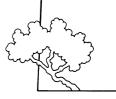
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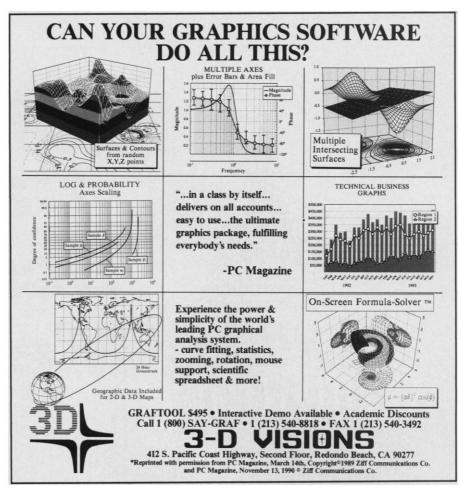
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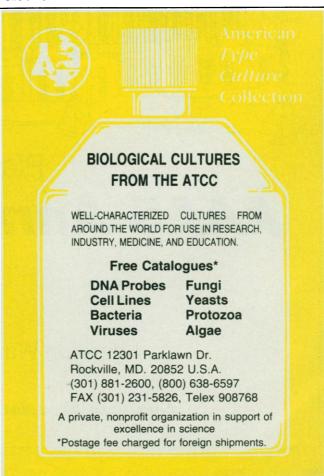
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Powerful Desktop PC

Hewlett-Packard has introduced its most powerful desktop personal computer (PC) yet. The 25-MHz, 80386-based HP Vectra 386/25 PC offers 25 to 50% greater performance than previous models. The HP Vectra 386/25 PC offers high-performance, embedded-controller hard-disk drives, HP Super VGA with extended resolution, two megabytes of near-zero wait-state memory, and a 32-kilobyte memory cache. It is designed for use in complex spreadsheet analyses, database applications, computer-aided design, and local area network applications. Hewlett-Packard. Circle 475.

Colorimetric Web for Protein Immunoblotting

A new colorimetric web provides rapid and sensitive detection of proteins by amplification of peroxidase-linked probes in protein immunoblots. The Enzygraphic Web is placed in direct contact with the blot after hybridization of the target proteins with peroxidase-linked probe. An image rapidly appears on the web to identify the location of the probe-target complex on the blotting

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

membrane. The web is more sensitive than radioactive methods of detection, current wet chemistry methods that use peroxidase-linked probes, and methods that use alkaline phosphatase-linked probes. This method also saves time because the image develops within seconds, and there is no need to prepare chromagenic substrates or other reagents for detection. International Biotechnologies Inc. Circle 471.

Monoclonal Antibodies

Two new monoclonal antibodies are available for research use: Anti-Angiotensin-Converting Enzyme Antibody, for marking endothelial cells for flow cytometry or immunofluorescence histology studies, and Anti-Heat Shock Protein (hsp) 70 Gene Family Antibody, which recognizes the proteins in many families of eukaryotes, including humans, *Drosophila*, yeasts, mice, and soybeans. The latter antibody can be used in protein immunoblotting studies of biological stress reactions. Affinity BioReagents. Circle 472.

Five new research use monoclonal antibodies (MAbs) can help pathologists identify undifferentiated tumors. Two MAbs are specific for cytokeratin, and each detects a different weight cytokeratin. One MAb has a high specificity for melanomas, and another attaches to muscle actin to aid in the identification of certain sarcomas. The fifth new MAb is specific to granules peculiar to neural and neuroendocrine cells. Enzo Biochem. Circle 473.

Ribonuclease Protection Assay Kit

The Ribonuclease Protection Assay (RPA) Kit is more sensitive than Northern (RNA) blotting for mRNA detection and quantitation. In the RPA, an in vitro-synthesized, radiolabeled RNA probe is hybridized with total cellular RNA containing the mRNA of interest. Unhybridized probe is digested with a mixture of RNase A and RNase T1 while labeled probe molecules hybridized to mRNA are protected from digestion and are detected by autoradiography after separation on denaturing polyacrylamide gels. With probes that have high specific activity, it is possible to detect as little as 100 fg of target RNA after a 3-day exposure to x-ray film. Two factors are responsible for the increased sensitivity of RPA over that of Northern blots. The first is that the hybridization reaction occurs in solution, whereas in Northern blots the target RNA is bound to a filter. The second

factor is that, after RNase digestion in the RPA, protected hybridized probe separates from digested unhybridized probe during electrophoresis, which increases the signal-to-noise ratio. Ambion. Circle 479.

Chemiluminescent DNA-Typing Kit

The GenePrint nonradioactive DNAtyping kit offers chemiluminescent detection of digoxigenin-labeled DNA probes. The kit includes chemiluminescent substrate, alka-



line phosphatase antibody conjugate, analytical markers, allelic controls, restriction enzyme, nylon membrane, and all other components needed to DNA-type 100 samples. Promega Corp. Circle 476.

Literature

Guide to Instruments for Separations and Analysis is a 12-page product guide that describes an expanded line of instruments for low-pressure liquid chromatography (LC), high-performance LC, microbore LC, capillary electrophoresis, gel electrophoresis, and centrifuged gradient analysis. It introduces several new instruments, including the Foxy 200 fraction collector, the Model 495 power supply for sequencing and isoelectric focusing, automated and manual electrophoresis systems, and the SFX 2-10 supercritical fluid extractor. Isco. Circle 496.

Ventrex Laboratories' 1990–91 Bioreagents Catalog features an expanded range of immunodiagnostic products, including monoclonal antibodies, polyclonal antibodies, and affinity-purified polyclonal antibodies. Ventrex Laboratories. Circle 495.

The 1990–1991 Product Catalog from Owl Scientific Plastics lists many new products, including improved versions of the easy-cast minigel systems, vertical electrophoresis systems, and sequencers. Owl Scientific Plastics. Circle 494.

Personnel Placement

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To reply to a blind box ad, address correspondence to

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POSITIONS OPEN

ASSISTANT PROFESSOR, FOREST SOILS. Full-time, 12-month, tenure-track position. Associate professor appointment possible under exceptional circumstances. Applicants must have a Ph.D. by the time of appointment, a strong background in soil science, and interest in forest ecosystems and soil development pro-cesses. Responsibilities include teaching an undergraduand development of a graduate research program. The successful applicant will be expected to obtain extramural research funds through grants. Position is available 1 July 1991. Closing date for applications is 1 March 1991. Address applications (including résumé, transcripts, and the names of three references) or inquiries to: **Dr**. Robert L. Edmonds (Chairperson, Forest Soils Search Committee), College of Forest Resources (AR-10), University of Washington, Seattle, WA 98195. Telephone: 206-685-0953. The University of Washington is an Equal Opportunity/Affirmative Action Employer. Qualified women and minorities are urged to apply.

RIOLOGY

Tenure-track position beginning fall of 1991 at the rank of ASSISTANT PROFESSOR. Responsibilities include teaching microbiology, molecular genetics, cell physiology, and embryology. Especially important is a strong interest in contributing to integrated science courses which are part of the college's new general education program. The successful candidate also will be expected to pursue an active research program.

Candidates should submit a letter of interest, curricu-

lum vitae, summary of current research, research requirements, and names and telephone numbers of three current references to: Dr. Esther L. Barazzone, Vice President for Academic Affairs, Philadelphia College of Textiles and Science (PCT&S), School House Lane and Henry Avenue, Philadelphia, PA 19144. PCT&S is an Equal Opportunity/Affirmative Action Institution.

DEVELOPMENTAL BIOLOGIST. The Department of Biology, Loyola University of Chicago, invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR, beginning August 1991. Candidates studying any animal or plant system will be considered. Responsibilities include teaching at the un-dergraduate and graduate levels, development of an active research program, and the supervision of graduate student research. Ph.D. required; postdoctoral research and prior teaching experience desirable. Applicants should send complete curriculum vitae, a statement of research and teaching interests, and three letters of recommendation by 18 January 1991 to: Dr. Warren R. Jones, Chairman, Search Committee, Department of Biology, Loyola University of Chicago, 6525 North Sheridan Road, Chicago, IL 60626. Loyola University is an Affirmative Action/Equal Opportunity Employer.

CHRISTOPHER NEWPORT COLLEGE BIOLOGY, ASSISTANT PROFESSOR

The Department of Biology, Chemistry, and Environmental Science is seeking a qualified vertebrate zoologist for a tenure-track teaching position beginning in the fall of 1991. Applicants must hold a master's degree in biology. A Ph.D. is required for appointment as assistant professor; candidates without the Ph.D. but with realisations of the ph.D. but with the ph.D. but with realisations of the ph.D. but with realisations of the ph.D. but with the tic prospects of completing the Ph.D. in the near future will be considered for appointment at the rank of instruc-tor. Teaching experience at the college level in one or more of the subject areas is desired. Teaching assignments will be primarily in comparative animal physiology and human anatomy and physiology with some duties in general biology. The successful applicant must show evidence of excellence in teaching and active scholarship. Salary will be commensurate with experience within the guidelines set by the State of Virginia. Applicants must send a letter of application, curriculum vitae, and grad-uate transcripts and have three letters of recommendation sent to: Dr. David Bankes, Chair, Biology Search Committee, Christopher Newport College, 50 Shoe Lane, Newport News, VA 23606–2998. Completed files of applicants will be evaluated beginning 1 March 1991 and the position will remain open until filled. Christopher Newport College hires only U.S. citizens and aliens lawfully authorized to work in the United States and is committed to a vigorous Affirmative Action/Equal Opportunity program. Applications from women and minorities are especially encouraged. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Division of Urology, University of California, Los Angeles (UCLA) School of Medicine, is recruiting a urologist to join the faculty as an ASSISTANT PRO-FESSOR. Applicants must be Board-certified or -eligible and skilled in teaching, research, and clinical urology. Activities will be divided between the UCLA Medical and the VA Medical Center, West Los Angeles. Experience in molecular biology research related to prostatic disease is desired. UCLA and its affiliated institutions are Equal Opportunity and Affirmative Action Employers. Applicants should submit curriculum vitae to: Chief, Division of Urology, UCLA School of Medicine, Los Angeles, CA 90024–1738.

SYSTEMATIC ZOOLOGIST, ASSISTANT PROFESSOR. Tenure-track, fall 1991. Ph.D. required. Preference given to applicants with a combination of field and molecular training and interests. To teach introductory organismal biology, an advanced course in specialty, participate in college-wide programs and develop research program involving students. Send curiculum vitae, transcripts, and three letters of reference by 15 February 1991 to: Dr. David Jordan, Vice President for Academic Affairs, Austin College, Sherman, TX 75091–1177.

PLANT PHYSIOLOGIST

The Department of Biology of Rollins College invites applications for a tenure-track ASSISTANT PROFES-SORSHIP in plant physiology-plant cellular/molecular biology to begin fall 1991. Candidate will teach undergraduate courses in plant physiology and plant growth/development and traditional areas of botany and general biology, as well as courses for nonmajors. Ph.D. required; A.B.D. considered. Also required: demonstrated quired; A.B.D. Considered. Also required: demonstrated potential for excellence in teaching and a genuine interest in educating undergraduate students. Department has well-equipped molecular/cellular biology laboratories and modern greenhouse for teaching and research. Applications from members of ethnic/racial minorities and women especially welcome. Send statement of interest, curriculum vitae, academic transcripts, and three letters of recomwhat, academic transcripts, and three letters of recommendation to: Dr. Stephen Klemann, Chair, Department of Biology, Rollins College, Winter Park, FL 32789–4497. Selection will begin 1 February 1991. Rollins assures Equal Employment Opportunity through an effective and continuing Affirmative Action program.

NEPHROLOGIST. Opening for an academic ne-phrologist at the ASSISTANT PROFESSOR level, with interest in teaching, and research, to join the Division of Nephrology and the Nephrology Research and Training Center at University of Alabama at Birmingham (UAB). The successful candidate will have demonstrated expertise in the study of human genetic disease, relevant to homeostasis of electrolytes and also be licensed/eligible to practice medicine in Alabama. Send curriculum vitae and the names of three references to: David G. Warnock, M.D., Director, Division of Nephrology and the Nephrology Research and Training Center, University of Alabama at Birmingham, University Station, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR CELL BIOLOGY UNIVERSITY OF CALIFORNIA-RIVERSIDE

Applications are invited for a tenure-track faculty position, starting 1 July 1991, in cell biology at the assistant professor level in the Department of Biology, University of California, Riverside. Areas of particular research interest include cell-cell interactions and signaling, protein sorting, cytoskeletal structure and function, or the extracellular matrix.

The successful applicant should hold a Ph.D. degree and have postdoctoral experience. The individual will be expected to establish a vigorous research program, to interact with the cell and molecular biology graduate program, and to participate in teaching at the graduate

and undergraduate levels.

Applicants should submit curriculum vitae and a staterappicants should submit curriculum vitae and a state-ment of research interests and arrange to have letters sent by three to five referees to: Chair, Cell and Molecular Biology Search Committee, Department of Biology, University of California, Riverside, CA 92521. Applications should be received by 8 February 1991 to

be assured consideration.

The University of California is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

ASSISTANT PROFESSOR

The Department of Biology at Westminster College is seeking a tenure-track assistant professor with a specialty in invertebrate zoology and a broad background in the biological sciences. Applicants should have a strong commitment to excellence in teaching in a liberal arts environment. Teaching responsibilities will include invertebrate zoology, general biology, and introduction to biological principles (for nonmajors). Please send a statement of teaching goals, curriculum vitae, transcripts, and three letters of reference to: Dr. Douglas R. Fickess, Chair, Department of Biology, Westminster College, 501 Westminster Avenue, Fulton, MO 65251–1299. Review of applications will begin 28 January 1991 and continue until the position is filled.

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MOLECULAR/CELL BIOLOGY

ASSISTANT PROFESSOR. Molecular/cell biologist. Ph.D./A.B.D. Half teaching/half research 11-month position at Earlham College. For 2 years. Supervision of student research, cooperative team teaching in introductory courses, work with minority students, and course and curricular development. Department known for curricular innovation, quality teaching, high proportion of majors going on to Ph.D.'s. Excellent laboratory/library facilities. Send curriculum vitae, teaching and research philosophy statement, transcripts, and three recommendations to: Dr. William Harvey, Box 75-A, Earlham College, Richmond, IN 47374. Review begins 1 February 1991. We especially invite and encourage applications from African-Americans, Hispanic-Americans, and women.

MEDICINAL CHEMISTRY, ASSISTANT PROFESSOR. The Department of Pharmaceutical Chemistry, University of California, San Francisco, is seeking outstanding applicants for a tenure-track vacancy in the medicinal chemistry area. Candidates must have a strong background in organic chemistry, relevant postdoctoral experience, a strong commitment to research and teaching, and demonstrated excellence in their field. Applications from individuals with interests in areas of organic, synthetic, or bioorganic chemistry relevant to medicinal chemistry are particularly welcome. Candidates should arrange for three letters of reference and should send curriculum vitae and a brief summary of research accomplishments and future research goals before 1 March 1991 to: Professor Paul R. Ortiz de Montellano, Department of Pharmaceutical Chemistry, School of Pharmacy, University of California, San Francisco, CA 94143–0446. The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Applications are invited for a position as ASSIST-ANT PROFESSOR of oncology at the McArdle Laboratory of the University of Wisconsin-Madison. Each applicant should be prepared to develop a strong independent research program involving basic studies on viruses associated with human cancer. Applicants should have a commitment to contributing to an understanding of neoplasia and to participating in the interactive research environment of the McArdle Laboratory.

Each applicant should sumbit curriculum vitae, list of publications, and a two- to three-page statement of research accomplishments and future objectives. Each applicant should also ask at least three persons qualified to evaluate the candidate's research to send letters of recommendation.

Review of the application for the position will start on 1 February 1991, but applications will be accepted until the position is filled.

Send applications and letters of recommendation to: Dr. Henry C. Pitot, Department of Oncology, McArdle Laboratory for Cancer Research, University of Wisconsin, 1400 University Avenue, Madison, WI 53706. Equal Opportunity/Affirmative Action Employer.

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POSITIONS OPEN

BIOLOGY, BALL STATE UNIVERSITY MUNCIE, INDIANA

Applications are invited for three tenure-track positions in the Department of Biology at the ASSISTANT OR ASSOCIATE PROFESSOR level available 20 August 1991. Candidates are expected to have a commitment to excellence in teaching, to demonstrate competency in the use of current goals and curricula for teachers in science, and to establish an active research program. Please send letter of application, curriculum vitae, documentation of scholarly activity, three letters of reference, and transcripts to the person identified below at the following address: Department of Biology, Ball State University, Muncie, IN 47306.

- BIOLOGY/ECOLOGY: assistant professor to teach courses in general and applied ecology and participate in the introductory biology program; develop a strong research program in specialty area. Earned doctorate in a biological science is required. Dr. Thomas McComish, Search and Selection Committee.
 BIOLOGY/BOTANY: assistant professor
- BIOLOGY/BOTANY: assistant professor to teach courses in botany (including identification of vascular plants), area of specialty, and introductory biology; conduct research in specialty area; and promote student involvement in research. Examples of research specialties include (but are not limited to): conservation biology, evolutionary systematics, plant pathology, population genetics, regulation of plant metabolic processes, or stress adaptations. Earned doctorate in a biological science required. Dr. Thomas Mertens, Search and Selection Committee.
- BIÓLOGY/SCIENCE EDUCATION: assistant or associate professor to teach courses in science methods (emphasis in secondary school science) and introductory biology, conduct research in specialty area, and promote student involvement in research. Earned doctorate in science/biology education and demonstrated teaching ability required. Dr. William Rogers, Search and Selection Committee.

Review of applications will begin 8 January 1991 and continue until the positions are filled. Ball State University practices Equal Opportunity in Education and Employment.

NEUROBIOLOGIST/ANATOMIST. Three cellular/molecular neuroscientist positions (tenure track at ASSISTANT OR ASSOCIATE PROFESSOR level) available in the expanding Department of Anatomy and Neurobiology: Preference given to candidates with research interests in neuroendocrinology, developmental neurobiology, regeneration, neuroimmunology, or aging. Excellent opportunities for collaborative research with the Centers on Aging and Cancer. Ph.D. and 2 to 3 years of postdoctoral research training required. Establishment of an independent, productive, and extramurally funded research program expected. Teaching experience in either histology or gross anatomy is required. Send curriculum vitae, summary of research and research plan, accomplishments, teaching experience, and three letters of recommendation to: Dr. M. B. Nikitovitch-Winer, Chairman, Department of Anatomy and Neurobiology, University of Kentucky Medical Center, Lexington, KY 40536–0084.

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Anatomy and Cell Biology invites applications for a 12-month tenure-track position which will include teaching in the gross anatomy medical school course, participating in graduate education and maintaining an independent research program with extramural support. Current research interests in the department include neuroscience and developmental and molecular biology. We require a Ph.D. or M.D. with postdoctoral experience. Prior teaching experience preferred. Applicants should send curriculum vitae, a statement of research interests, and the names of three references to: Dr. Paulette Bernd, Department of Anatomy and Cell Biology, SUNY Health Science Center at Brooklyn, 450 Clarkson Avenue, Box 5, Brooklyn, NY 11203. DMC #CR0330. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Department of Pathology, Tulane University School of Medicine, seeks a cell or molecular biologist at the rank of ASSISTANT OR ASSOCIATE PROFESSOR. Qualifications include M.D., Ph.D., or equivalent and demonstrated expertise and publications in cell or molecular biology. Highly competitive salary and start-up package is available. Opportunities for collaboration with established experimental pathologists. Please submit curriculum vitae, current and future research plans, and appropriate reprints to: Dr. James S. Malter, Department of Pathology, Tulane Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane University is an Affirmative Action/Equal Opportunity Employer.

INDIANA UNIVERSITY NORTHWEST DEPARTMENT OF BIOLOGY

ECOLOGY. Tenure-track position at the ASSIST-ANT/ASSOCIATE PROFESSOR level anticipated for the fall semester 1991. Faculty members will be expected to teach courses in ecology, field biology, and other related core courses in biology and to develop an active research program. Ph.D. required in biology with an emphasis in ecology and/or environmental studies. Send letter of application, résumé, and names of three references no later than 1 February 1991 to: Chairman, Department of Biology, Indiana University Northwest, 3400 Broadway, Gary, IN 46408.

An Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST. To develop basic science research program of pain mechanisms in the Department of Anesthesia and Critical Care. Collaborate with active clinical programs in relief of acute and chronic pain. Must be eligible for ASSISTANT OR ASSOCIATE PROFESSOR rank at Harvard Medical School by basic science criteria. Send curriculum vitae to: Edward Lowenstein, M.D., Anesthetist-in-Chief, Department of Anesthesia and Critical Care, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215. The Beth Israel Hospital is a Major Teaching Institution of Harvard Medical School and an Equal Opportunity/Affirmative Action Employer.

EAST TENNESSEE STATE UNIVERSITY

ASSISTANT/ASSOCIATE PROFESSOR position in Department of Microbiology for Ph.D. molecular biologist. Research experience and applications in regulation of gene expression required. Department strengths: cytokines, regulation of cell function, regulation of viral genes, and microbial pathogenesis. Applicants must apply molecular biology techniques to one or more of these areas, must establish/maintain independent and collaborative research programs, and teach medical and graduate students. Nontenure-track position. Competitive salary, start-up funds, location in geographically desirable area. Send curriculum vitae, statement of research interests, and three reference letters to: Dwight W. Lambe, Jr., Ph.D., Chairman, Department of Microbiology, James H. Quillen College of Medicine. Bast Tennessee State University (ETSU), Box 19, 870A, Johnson City, TN 37614. ETSU is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF ENTOMOLOGY PENNSYLVANIA STATE UNIVERSITY

Applications are invited from individuals conducting original research on genetic mechanisms governing biology and behavior of honey bees and other social insects. This is a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level, available as early as of March 1991. Applicants should possess the Ph.D. in genetics, entomology, or related discipline, with research experience in genetics and willingness to seek extramural funding. Candidate will participate in undergraduate and graduate instruction and will collaborate with extension associate responsible for honey bees. Significant start-up funds and a competitive salary are offered. Applications, including curriculum vitae, academic transcripts, statement of research interests, and the names of five references, should be sent to: J. L. Frazier, Head, Box S, Department of Entomology, Pennsylvania State University, 106 Patterson Building, University Park, PA 16802. Consideration of applications will begin 31 January 1991, and will continue until a qualified candidate is identified. Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Dean Graduate College Wake Forest University

Wake Forest University invites applications and nominations for the position of Dean of the Graduate College. Candidates will work with Graduate Faculty at both the Medical School and the College of Arts and Sciences to continue the process of building mature graduate programs in an environment where a healthy balance between research and teaching responsibilities has been maintained.

The successful candidate should possess:

Teaching and Scholarship: The Dean must have impeccable credentials and be nationally recognized as a scholar with a record of significant accomplishment. A candidate should be a faculty member of a university with a major commitment to graduate education and research.

Leadership: The Dean would be expected to be a strong advocate for research and would be a central influence in the continued development of the graduate programs. The position would involve administration of graduate programs at both the College of Arts and Sciences and the Medical School. Effective interpersonal skills would be valuable in enhancing interactions between the two campuses.

Administration: The Dean would be expected to work with the Graduate Faculty to recruit graduate students and maintain effective communications and good working relations with other divisions of the University. A record that demonstrates significant administrative experience within a university would be viewed as highly desirable, but not an essential requirement for the position.

Candidates should submit a letter of application, curriculum vitae, the names, addresses and phone numbers of four references. Screening of applicants will begin immediately and will continue until the position is filled. Applications and nominations should be sent to:

Graduate Dean Search Committee Department of Biochemistry Wake Forest University Medical Center 300 South Hawthorne Road Winston-Salem, North Carolina 27103

Wake Forest University is an affirmative action, equal opportunity employer.

ASSOCIATE VICE CHANCELLOR FOR RESEARCH AND GRADUATE STUDIES

The **University of Alaska Anchorage** invites applications and nominations for the position of Associate Vice Chancellor for Research and Graduate Studies. Reporting to the Provost, the Associate Vice Chancellor serves as the academic and administrative officer for research and graduate studies. UAA is a comprehensive, public institution with over 20,000 students and 25 graduate programs.

QUALIFICATIONS: A doctoral degree; Substantial administrative experience, including demonstrated successful academic grant and contract development; Extensive knowledge of current governmental grant and contract requirements; Experience working with governmental agencies, philanthropic institutions, and private sector entitles in securing funding; Demonstrated commitment to excellence in research and graduate education; Demonstrated executive leadership, communication skills, vision, and integrity; Demonstrated ability to build cooperative relationships within diverse groups, both internal and external to the university; A commitment to multi-cultural diversity.

A complete position announcement will be mailed upon request. Applicants should submit a letter detailing their interest and qualifications, a resume, and names, addresses, and telephone numbers of at least five references to the following:

Dr. Michael J. Dimino, Chair Associate Vice Chancellor Search Committee University of Alaska Anchorage 3890 University Lake Drive Anchorage, AK 99508 (907) 786-1921

The committee will begin to review applications on January 11, 1991, and the position will remain open until filled. July 1, 1991, is the preferred start date.

An AA/EEO institution which encourages applications from women and minorities. Candidates must be eligible for employment under the Immigration Reform and Control Act of 1986.



President



Michigan Technological University Houghton, Michigan

The Board of Control of Michigan Technological University invites nominations and applications for the position of President of Michigan Technological University.

Michigan Technological University has been designated as one of Michigan's four nationally recognized research universities and has long been known as a premier undergradute engineering institution. Michigan Technological University is a public institution consisting of approximately 350 teaching faculty, 1000 staff, and over 6,000 students enrolled in undergraduate and graduate courses of study. Nestled in the heart of the Keweenaw Peninsula, Michigan Technological University is located near Lake Superior, the world's largest freshwater lake.

The new President will be expected to exert dynamic leadership in all university matters. The candidate must be able to relate well to all traditional, professional, and cultural segments of the university and willing to expand the institution's local, national, and international ties.

The Search Committee of the Board of Control will also be seeking evidence of the following:

- proven leadership abilities in administrative and academic affairs
- evidence of scholarly achievement
- an understanding and dedication to the mission of a technological university
- demonstrated commitment to affirmative action and diversity
- demonstrated abilities to communicate and interact with the faculty, staff, students, administrators, board, alumni, and the university's many publics
- ability to develop and implement a long-range or strategic institutional plan
- a sensitivity and the vision to serve the needs of a developing university in a Global context
- demonstrated financial planning and management, including encouragement of support from governmental and private sources
- · demonstrated community involvement and leadership.

Candidates should have an earned doctorate from an accredited institution, or its equivalent in demonstrated administrative experiences.

Salary is competitive with excellent benefits. Applicants should send a letter of application and a full resume.

Applications and nominations should be directed to:

Search Committee/Board of Control c/o Personnel Services Office Administration Building 1400 Townsend Drive Michigan Technological University Houghton, Michigan 49331-1295

The Search Committee will begin reviewing applications on December 1, 1990 and will accept applications until the position is filled

Michigan Technological University is an Equal Employment Opportunity
Affirmative Action Employer/Educational Institution.

THE UNIVERSITY OF WESTERN ONTARIO DEPARTMENT OF OBSTETRICS AND GYNECOLOGY MOLECULAR BIOLOGIST

A faculty position is available for an established research scientist with postdoctoral experience in molecular biology and with a specific interest in the hormonal control of normal and abnormal growth and development

The successful applicant will be appointed at the ASSISTANT/ASSOCIATE PROFESSOR level in the Department of Obstetrics and Gynecology with a "tenure-track" cross appointment in the Department of Biochemistry or equivalent basic health science department. Salary will be commensurate with experience and qualifications.

Applications including a full curriculum vitae, a summary of research activities, and names of three references should be submitted to: Dr. G. L. Hammond, Director, Cancer Research Laboratories, London Regional Cancer Centre, 790 Commissioners Road, East, London, Ontario, Canada N6A 4L6. Closing date for applications is 31 January 1991. In accordance with Canadian Immigration requirements, this ad is directed to Canadian Citizens and Permanent Residents of Canada. The University of Western Ontario is an Equal Opportunity Employer. Positions are subject to budget approval.

MOLECULAR/CELLULAR PHARMACOLOGY

The Department of Pharmacology, University of Kentucky Medical Center at Lexington is expanding its programs in molecular and cellular pharmacology. Excelent facilities and new resources are available to support this expansion. Two or more tenure-track positions are available immediately at the ASSISTANT PROFESSOR level. Positions at the ASSOCIATE PROFESSOR level may also become available. Areas of interest include, but are not limited to, neuroscience, aging and Alzheimer's disease, drug abuse, cancer, and membrane mechanisms. We encourage applications from candidates whose research involves quantitative autoradiography and immunocytochemistry, gene expression systems, monoclonal antibody development, and patch clamp approaches. Candidates should have a Ph.D. or M.D. with postdoctoral experience and have evidence of the ability to develop an independent, externally funded research program. Participation in departmental training of medical and graduate students is also an important aspect of these positions. Interested candidates should send curriculum vitae and the names, addresses, and telephone numbers of three references to:

Search Committee
Department of Pharmacology
University of Kentucky College of Medicine
MS-305 Medical Center
Lexington, KY 40536–0084

The University of Kentucky is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR CANCER PHARMACOLOGY

The Department of Pharmacology and the Cancer Centér, Northwestern University Medical School, invite applications for a tenure-track faculty position at the assistant or associate professor level. Prospective candidates should have a Ph.D., M.D., or equivalent degree, have had postdoctoral training, and have demonstrated excellence in research and commitment to teaching. Preference will be given to those who have had experience in the application of molecular biology, genetics, cell biology, or immunology to pharmacological problems as related to cancer. The successful candidate is expected to develop his/her own research program as supported by external funds and to participate in the teaching program. The position will become available effective 1 September 1991. Applicants should have their curriculum vitae, a brief statement of future research plans, and three letters of recommendation sent to: Dr. Toshio Narahashi, Professor and Chairman, Department of Pharmacology, Northwestern University Medical School, 303 East Chichago Avenue, Chicago, IL 60611. Telephone: 312-503-8284; FAX: 312-503-5349. Application must be received by 1 February 1991.

Women and minority candidates are particularly encouraged to apply. We pay special attention to the qualified candidates in these groups. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ENVIRONMENTAL TOXICOLOGIST. ASSOCIATE/FULL PROFESSOR. Academic year appointment, tenure track, fall of 1991. Minimum qualifications include a Ph.D. in a discipline related to the environmental toxicology of aquatic systems. Must complement interdisciplinary program in environmental quality, and hazardous materials management. Evidence of strong established research program with extramural funding required. Expertise in the areas of measuring aquatic contamination and environmental impact and the ability to teach undergraduate and graduate courses is required. Applicants should send current curiculum vitae, names, addresses, and telephone numbers of at least five references; and documentation of funding and research to: Dr. Guy R. Lanza, Dean, School of Public and Allied Health, East Tennessee State University, Box 21190 A, Johnson City, IN 37614. The deadline for receiving completed applications is 15 March 1991. An Equal Opportunity/Affirmative Action Employer.

SYSTEMATIC ENTOMOLOGIST HARVARD UNIVERSITY

The Department of Organismic and Evolutionary Biology announces a search for a tenured FULL PROFESSOR of biology in the area of systematic entomology

ogy. We seek applicants with an outstanding record of research and teaching accomplishments, and who are prepared to assume curatorial responsibilities for part of the large and important insect collections of the Museum of Comparative Zoology. Harvard University.

of Comparative Zoology, Harvard University.
Curriculum vitae, statement of interest, and names of three recommenders should be sent no later than 28 February 1991 to:

Systematic Entomology Search Attention: E. O. Wilson Department of Organismic and Evolutionary Biology 26 Oxford Street Cambridge, MA 02138–2902

Harvard University is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND DEPARTMENT HEAD

The Department of Biological and Agricultural Engineering, College of Agriculture and Life Sciences, North Carolina State University, invites applications and nominations for the position of professor and head of the department. The head of the department provides academic and administrative leadership to undergraduate and graduate education, research, and extension programs in the department. The department head must work effectively with faculty and staff to establish goals and policies; recruit and evaluate faculty and staff; develop communication with faculty, staff, students, and administrators in the Colleges of Agriculture and Life Sciences and Engineering and the university; and manage budget and fiscal matters. Candidates for the position must have a Ph.D. in biological and agricultural engineering or a related field and a record of distinguished professional achievement. Preference will be given to candidates who have administrative experience or demonstrated potential for leadership. Closing date for nominations and applications is 15 March 1991 or until a qualifications, a one-page summary of philosophy of administration, curriculum vitae, and names and addresses of three references to: Dr. David R. Lineback, Chairman of Search Committee, Department of Food Science, North Carolina State University, Box 7624, Raleigh, NC 27695–7624.

North Carolina State is an Affirmative Action/Equal Opportunity Employer. All qualified individuals are urged to apply.

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POSITIONS OPEN

CHAIR DEPARTMENT OF ANIMAL ECOLOGY

Iowa State University is seeking a scientist to lead the Department of Animal Ecology. Applicants should have demonstrated leadership qualities and outstanding abilities in research, teaching, and service. Please send curriculum vitae and names of five references with a statement of academic and administrative philosophy by 1 March 1991. Send applications to: Dr. Steven Jungst, Chair, Animal Ecology Search Committee, 104 Curtiss Hall, Iowa State University, Ames, IA 50011. An Affirmative Action/Equal Opportunity Employer.

BIOLOGY DEPARTMENT CHAIR

Roanoke College, a liberal arts college affiliated with the Lutheran Church, seeks an experienced person to head a biology department of six full-time faculty. Teach microbiology, cell physiology, immunology. Strong leadership skills. PROFESSOR/ASSOCIATE PROFESSOR rank. Salary competitive. Excellent teaching emphasized; active scholarship supported. Send letter of application, curriculum vitae, transcripts, and names of three references by 28 February 1991 to: Biology Search, Dean Gerald Gibson, Roanoke College, Salem, VA 24153. Telephone: 703-375-2204. An Affirmative Action/Equal Opportunity Employer.

CHAIR DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Applications and nominations are invited for the position of Chair of the Department of Microbiology and Immunology at the Albert Einstein College of Medicine of Yeshiva University. Candidates should have demonstrated substantial research accomplishments, an understanding of the multidisciplinary nature of the field, and a commitment to teaching. Applicants should send curriculum vitae and a description of professional goals to: Dr. Jonathan R. Warner, Chair, Search Committee, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

CHAIRPERSON, BIOCHEMISTRY. The Medical College of Pennsylvania (MCP) invites applications and nominations for the position of chairperson, Department of Biochemistry. This department has been recently reorganized and will move to newly renovated premises in 1991. The position offers substantial scope and potential for a distinguished leader and researcher. The Medical College of Pennsylvania seeks an individual of significant stature with an established record of scientific productivity and ability to attract external funding. Applications will be accepted from individuals witn expertise in any area of biochemistry. A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent to: Walter Rubin, M.D., Chairman, Biochemistry Search Committee, 3300 Henry Avenue, Philadelphia, PA 19129. MCP is an Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE

The Philadelphia College of Osteopathic Medicine (PCOM) invites applications for the position of professor and chairperson of the Department of Microbiology. Applicants should have a Ph.D., Ph.D/D.O., or equivalent degree(s); strong leadership ability to direct the educational and research programs of the department; and a proven record in teaching, administration and biomedical research. Broad opportunities exist at PCOM, which is a recognized leader in osteopathic education, research, and clinical practice.

Applications will be accepted until 30 March 1991. Interested candidates should send their curriculum vitae and the names, addresses, and telephone numbers of there references to:

and the names, much three references to:

Tage N. Kvist, Ph.D.

Chairman, Microbiology Search Committee
Department of Anatomy
Philadelphia College of Osteopathic Medicine
4150 City Avenue
Philadelphia, PA 19131

PCOM is an Equal Opportunity Employer that offers a competitive salary and benefits package.

ENDOWED CHAIR

The Department of Orthropaedic Surgery at the University of Louisville requires a Biomedical Engineer to fill an Endowed Chair in Spine Research. The academic rank will be at the full professor level. The applicant should have extensive experience in biomaterial and biochemical research of the spine. A proven track record in securing federally funded grants is required. Considerable start-up funds and on-going support will be available. Interested applicants should submit their resume to:

Dr. John R. Johnson, Chairman
Department of Orthopaedic Surgery
University of Louisville School of Medicine
Louisville, Kentucky 40292

DIRECTOR CENTER FOR SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION



Colorado State University, Colorado's land-grant university, invites nominations and applications for the position of Director of the newly formed Center for Science, Mathematics and Technology Education (CSMATE). The Center serves as a focal point for research aimed at improvement and innovations in science, mathematics and technology instruction at all levels—elementary through university. The Director is expected to obtain extramural funding through contracts and grants supporting the initiation and enhancement of programs that will address the needs and aspirations of K-16 science, mathematics and technology students, teachers and administrators. The Director must have a strong interest in discipline-based science, mathematics and technology education with teaching experience at the undergraduate and graduate levels, evidence of successful fund-raising for projects and experience in program administration. The Director must provide leadership for and have the ability to work with diverse constituencies in the educational arena and have experience in coordinating programs across educational institutions and government agencies. An earned Doctorate is required.

Interested parties should request a full job description. Applications should include a letter of interest, a current resume' and the names, addresses and telephone numbers of three references. The closing date for applications is January 31, 1991. The deadline may be extended if a suitable candidate is not found. The position is available July 1, 1991 or sooner. Applications and nominations should be sent to:

Dr. Thomas A. Gorell, Chair CSMATE Director Search Committee College of Natural Sciences, C-138 Clark Colorado State University Fort Collins, CO 80523 Fax (303) 491-0528

CSU is an EEO/AA employer. E.O. Office: 314 Student Services Bldg.

POSITION AVAILABLE

DIRECTOR, NATIONAL INSTITUTE OF MENTAL HEALTH, ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, National Institute of Mental Health (NIMH).

The person selected for this position (located in Rockville, Maryland) will receive a career appointment to the Senior Executive Service (SES). The 1990 salary range for this position is \$71,200 to \$83,600 (or \$103,600 for physicians including the maximum \$20,000 Physicians Allowance). The proposed 1991 salary range (pending issuance of an Executive Order) is \$87,000 to \$108,300 (or \$128,300 for physicians). SES members are also eligible for performance awards of 5 to 20 percent of base salary. Alternatively, this position may also be filled through an appointment in the Public Health Service Commissioned Corps.

The National Institute of Mental Health provides leadership, policies, and goals for the Federal effort to increase knowledge and develop effective strategies to deal with health problems and issues in the prevention and treatment of mental illness and in the promotion of mental health. Its programs include intramural and extramural research, the administration of training programs to meet national mental health manpower needs, and the provision of technical services to States and communities. The Director manages a staff of 1,000 and a budget of \$590 million, including over \$450 million for research.

Candidates must have progressively responsible experience in developing, administering, and evaluating programs relating to mental disorders or mental health, including programs of research, training, services, or prevention. Candidates must also demonstrate competence to assume leadership in planning, staffing, directing, coordinating, and allocating resources, and other responsibilities associated with executive leadership of a major national program. Minimum education requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's or higher degree in an academic field relating to the health sciences.

Further information about the position and qualification requirements may be obtained by contacting Ms. Carmen Garcia, on (301) 443-5030. An Application for Federal Employment, SF 171, accompanied by a current curriculum vitae and bibliography are to be submitted to Ms. Garcia at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Applications will be accepted without the SF 171 provided that the SF 171 is submitted upon request. Complete applications (including the SF 171) must be postmarked by the closing date of the vacancy announcement. Late applications will not be accepted.

Applications from women and minority group members are solicited.

THE ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION IS AN EQUAL OPPORTUNITY EMPLOYER

ENDOWED CHAIR IN IMAGING SCIENCE



An endowed chair in the Center for Imaging Science was established in 1986 as a permanent memorial to the parents of the benefactor, Frederick Wiedman Jr. The Center wishes to attract a nationally recognized scholar and educator in the field of Imaging Science to fill this chair which becomes vacant July 1, 1991. This position is intended to enhance the Medical Imaging program within the Center. Nominees should be recognized authorities in some aspect of Medical Imaging and should possess the leadership skills necessary to establish an outstanding research and academic program. RIT has a history of having a strong undergraduate program and it is expected that the successful candidate will have a commitment to both graduate and undergraduate education.

Rochester Institute of Technology is an independent, co-educational university enrolling 13,000 students. The Center for Imaging Science grants BS, MS and PhD degrees in Imaging Science and an MS degree in Color Science. RIT is located near a university medical center and the research laboratories of many large and small corporations, including Kodak and Xerox. Nominations and applications should be forwarded to:

Dr. Harvey Rhody, Chair Wiedman Search Committee Center for Imaging Science Rochester Institute of Technology One Lomb Memorial Drive Rochester, NY 14623

RIT is an equal opportunity, affirmative action employer committed to cultural diversity.



ASSISTANT PROFESSORS MOLECULAR TOXICOLOGY

University of Pittsburgh

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh seeks candidates for two full-time tenure track faculty positions at the **ASSISTANT PROFESSOR** level. Applicants should have a Ph.D., M.D., or equivalent degree and 2 years of post-doctoral training in *molecular dosimetry* with experience in the identification and quantitation of DNA-reactive molecules including the characterization of protein adducts

The successful candidates are expected to develop an independently funded research program as well as develop collaborative projects with faculty members in cognate disciplines. Responsibilities will include the instruction of graduate and post-doctoral students. Starting Date: As soon as possible. Salary commensurate with experience.

The Department of Environmental and Occupational Health of the University of Pittsburgh is a newly established and expanding multi-disciplinary department encompassing Molecular and Environmental Toxicology, Occupational and Environmental Medicine and new approaches to Radiation Health. Additionally, the internationally renowned expertises of the Departments of Epidemiology and Biostatistics are also available.

Exceptional applicants should submit curriculum vitae, statements of interests and names of at least three references to: Meryl H. Karol, Chair, Search Committee, Department of Environmental & Occupational Health, Graduate School of Public Health, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261.

THE UNIVERSITY OF PITTSBURGH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

Chair, Department of Nuclear Energy

Brookhaven National Laboratory is a multidisciplinary laboratory located on Long Island, New York, managed by Associated Universities, Inc., under contract with the U.S. Department of Energy. We are seeking a distinguished engineer or scientist to serve as Chair of the Department of Nuclear Energy.

The Department of Nuclear Energy is one of the major scientific departments at Brookhaven. The activities of the Department include programs related to reactor development, operation and safety, and to development of neutral particle beams. The current effort includes theoretical and experimental studies on the safety of commercial nuclear power plants, development of designs for advanced, compact nuclear power plants, development of improved methods for safeguarding nuclear materials, nuclear waste management studies, compilation and evaluation of nuclear data required for users throughout the world, and construction and operation of a Radiation Effects Facility and the Neutral Particle Beam Facility.

The Department, with a staff of 330, is organized into eleven divisions. The majority of the funding for the Department's activities is provided by the U.S. Nuclear Regulatory Commission and the U.S. Department of Energy.

Candidates are expected to be recognized authorities in the nuclear sciences field, and have contributed to the literature of nuclear energy. It is desirable that candidates have a Ph.D. in engineering, physics or chemistry; have extensive experience in both a research environment or an applied or industrial environment; be proven managers; have a successful record of working with program managers at government agencies, universities, and industrial organizations; and be able to bring to Brookhaven new opportunities for the Department's growth. Expressions of interest, which should include a resume and publications list, may be sent to: DNE Search Committee, Building 197C, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, New York 11973. Attention: Dr. J.M. Hendrie. Equal Opportunity Employer M/F.



ENTOMOLOGIST

The Department of Biology at the University of Northern Iowa invites applications from individuals with the Ph.D. degree for a tenure-track position effective August 1991. Specific research area in entomology is open, but preference is given to an ecologicevolutionary orientation. The research should invite participation by graduate (M.A.) and undergraduate students. Teaching responsibilities typically will include general entomology, an advanced course in one's specialty, and participation in the University General Education program. An opportunity may be available for summer teaching and research at the Iowa Lakeside Laboratory. The department expects excellence in both teaching and research. Salary is competitive and commensurate with experience and qualifications. Teaching and/or post-doctoral research experience preferred. Applicants should send curriculum vitae, transcripts, statement of interests and goals in both teaching and research, relevant reprints, and three letters of recommendation. For full consideration application materials should be received by February 11, 1991. Send application and/or letters of inquiry to:

> Dr. George R. Hoffman Professor and Head Department of Biology University of Northern lowa Cedar Falls, IA 50614-0421 (Fax No.: 319-273-2893)

THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION. THE UNIVERSITY SPECIFICALLY INVITES AND ENCOURAGES APPLICATIONS FROM WOMEN AND MINORITY PERSONS.



ENDOWED CHAIR IN BIOLOGY

The Department of Biology, Saint Louis University, is searching for a distinguished scientist for the *William S. Barnickel Endowed Chair* in the Natural Sciences. We seek a scientist with expertise in cellular, molecular, or genetic approaches to fundamental problems in biological regulation. The individual is expected to emphasize research and be a catalyst in further development of excellent M.S. and Ph.D. programs. St. Louis is a center for research in molecular biology and genetics with opportunities to interact with scientists at Saint Louis University and at the Saint Louis University Medical School and at other academic and research institutions in the metropolitan area. The recipient of the chair will receive start-up funds and annual support for research from the endowment.

We will begin to review applications on February 15, 1991. Nominations should include a letter supported with an abbreviated curriculum vitae of the nominee. Applications should include a letter describing current and future research and teaching interests, a curriculum vitae, and names and phone numbers of five professional references. Please send nominations and applications to Dr. Robert I. Bolla, Chair, Department of Biology, Saint Louis University, 3507 Laclede Avenue, St. Louis MO. 63103-2010.

Saint Louis University is an affirmative action and equal opportunity employer. M/F/H/V.



LECTURER/SENIOR LECTURER IN MOLECULAR GENETICS

Applications are invited for a Lecturer/Senior Lecturer position in Molecular Genetics within the Department of Microbiology and Genetics. The appointee will be expected to develop a strong research programme in Molecular Genetics as well as participate in both undergraduate and post-graduate teaching.

The Department of Microbiology and Genetics is well equipped for research in Molecular Genetics and has strong links with the Department of Chemistry and

Biochemistry.

Applicants should have a PhD plus several years post-doctoral experience in Molecular Biology. Further information on the position may be obtained from Professor Barry Scott, extension 7965, fax (64) 63 505-613 or e-mail DBScott@ Massey.ac.NZ.

Closing date: 28 February 1991.

Further details of the above position together with Conditions of Appointment are obtainable from Mrs V B Bretherton, Personnel Section, to whom applications, including a full curriculum vitae and the names, addresses and fax numbers of three referees should be sent before the closing date specified.

B.R.H. Monks Registrar

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University of Regina

PLANT PHYSIOLOGY ANIMAL PHYSIOLOGY

Two tenure track positions at Assistant or Associate Professor level are available in the areas of plant and animal physiology. Preference will be given to those with two years of postdoctoral experience, and molecular and/or genetical expertise. Candidates must have a strong commitment to research and to teaching at the undergraduate and graduate levels (M.Sc. and Ph.D.). Research will be encouraged with start-up funds and reduced teaching loads to get new faculty quickly productive in their research. The cost of housing is very reasonable in this small attractive, capital city. Applicants should send a cv and the names and addresses of three referees to:

Dr. Melvin Weisbart, Head Department of Biology University of Regina Regina, Saskatchewan Canada S4S 0A2

FAX 306-585-4894 Bitnet: WEISBART@UREGINAV

In accordance with Canadian Immigration requirements, priority will be given to Canadians and permanent residents. The University of Regina is committed to employment equity. We welcome applications from all, especially aboriginal people, people with disabilities, visible minorities and women.



University of Michigan Medical Center

Faculty Position Cancer Biology/Thoracic Oncology Department of Surgery and the University of Michigan Cancer Center University of Michigan—Ann Arbor

Applications are invited for a tenure track faculty position in the field of Cancer Biology-particularly thoracic oncology (lung and esophagus)-in the Department of Surgery, Section of Thoracic Surgery, to augment our existing faculty group. The position will involve a joint appointment in the University of Michigan Cancer Center and therefore a supported interaction with other basic scientists. Research in the areas of regulation of proliferation and differentiation, growth and regulatory factors, cell-cell interactions, cytogenetics, and the biology of tumor cells is of special interest. However, outstanding scientists in other areas will also be considered. Candidates for this position should have a least two years of pertinent postdoctoral experience. The successful candidate will be expected to develop a nationally recognized independent research program. A wide variety of interactions with our present faculty members is possible in many areas of biochemistry, immunology, pharmacology, and molecular and cellular biology. We provide excellent physical facilities, a stimulating research environment, and competitive salary and benefits. Space is available in a newly completed research facility which includes the University of Michigan Biotechnology Division and Genome Research Center in addition to the many other scientific resources available at the University of Michigan. Applicants should provide a curriculum vitae, two copies of recent representative publications, and a detailed description of research goals. The applicant should also arrange for three letters of recommendation to be sent directly to us. The Search Committee will begin reviewing applications November 15, 1990 but will continue to accept applications until the position is filled. Submit applications to:

Jeffrey M. Trent, Ph.D.
Emanuel N. Maisel Professor of Oncology
Head, Thoracic Surgery Research Faculty Search Committee
MSRBIIC560 Box 0668
Ann Arbor. MI 48109

The University of Michigan is an Equal Opportunity/Affirmative Action Employer and applications from female and minority group members are strongly encouraged.

DEPUTY CHIEF, BIRTH DEFECTS CENTERS FOR DISEASE CONTROL

The Center for Environmental Health and Injury Control, Centers for Disease Control (CDC), Atlanta, Georgia, is seeking to recruit a deputy chief for the Birth Defects and Genetic Diseases Branch to direct studies relating to birth defects and genetic epidemiology. Applicants must have a degree in medicine (M.D. or equivalent). In addition to the M.D., a doctoral degree in epidemiology is preferred. It is desirable that candidates have specialized training in genetic epidemiology and pediatric medicine. Also, a minimum of 5 years of experience is preferred in design and analysis of genetic epidemiologic studies of birth defects as evidenced by a significant number of publications in peer-review journals. Salary range: \$58,149 to \$78,200. For technical information related to this announcement, contact: J. David Erickson, 404-454-4717. Send résumé to: Sharlyn L. Wilkinson, CDC, 1600 Clifton Road, N.E., Atlanta, GA 30333. Applications must be submitted within 3 weeks of this announcement. CDC is an Equal Opportunity Employer and provides a smoke-free work environment.

The Department of Pathology of the University of California, San Diego (UCSD), seeks a HEAD OF THE DIVISION OF ANATOMIC PATHOLOGY who will also serve as chief of the Surgical Pathology service at UCSD Medical Center. Applicants should have a record of research, teaching of medical students and residents, and clinical activities sufficient to qualify for appointment as associate or full professor of pathology with tenure at UCSD. Applicants should also have Board certification in either anatomic pathology or anatomic/clinical pathology and should be eligible for medical licensure in California. In addition to clinical service reaching and research, the incumbent will be expected to recruit full-time faculty, and, hence, prior administrative experience is desirable. Salary will depend upon the qualifications and experience of the candidate and will be consistent with current UCSD pay scales. Interested individuals should submit curriculum vitae and names of five references by 22 March 1991 to: University of California, San Diego, David N. Bailey, M.D., Professor and Chairman, Department of Pathology, 9500 Gilman Drive, La Jolla, CA 92093–0612. Affirmative Action/Equal Opportunity Employer.

DIRECTOR, WORK ENVIRONMENT, ENVIRONMENT AND TECHNOLOGY POLICY

The University of Lowell Research Foundation is seeking a director, work environment, environment and technology policy, to:

- Develop a strategic plan for advancing programs in new technologies as applied to environmental and work environment issues.
- Work with faculty, deans, and staff of the university engaged in externally funded research in work environment, environment, technology policy, and/or related areas with particular focus on safe materials and clean technologies as applied to pollution prevention at the source.
- Provide liaison to enhance relations with federal, state, and private funding sources.
 Work with faculty and staff of the Work Environ-
- Work with faculty and staff of the Work Environment Department in developing initiatives for an ergonomics institute.

Qualifications: Significant experience at the policy level in issues relating to the work environment and environment with particular emphasis on developing innovative methodologies for addressing societal concerns. Ability to speak to a wide audience; the ability to understand and communicate the interrelated nature of the impact and cost of work environment, environment, and technology policy issues. Bachelor's degree required; master's degree preferred.

This is a nonstate-funded position. Interested applicants should forward a résumé by 11 January 1991 to:

Dr. Charles Levenstein Chair, Search Committee University of Lowell Work Environment Department One University Avenue Lowell, MA 01854

The University of Lowell is an Equal Opportunity/ Affirmative Action/Title IX/504 Employer.

POSITIONS OPEN

TECHNICAL TRAINING IN ENERGY FOR DEVELOPING COUNTRY PROFESSIONALS

Nonprofit educational institution seeks MANAGER for USAID-funded project. Must have technical working knowledge of both management and operations of energy industry, including power plants, power systems, energy planning, etc. Experience in professional-level training, manpower needs assessments, human resource development a real plus. Knowledge of developing country needs and experience in LDCs desirable. Candidates should have demonstrated ability to work with a highly professional and motivated technical and administrative staff. Ph.D. preferred; M.S. essential. Substantial foreign and domestic travel expected. Write (no phone calls, please), including résumé and list of people who may be contacted for recommendations to:

Department of Science and Technology Institute of International Education 1400 K Street, N.W., Suite 650 Washington, DC 20005-2403

Equal Opportunity Employer.

DIRECTOR OF THE NEW YORK SEA GRANT

The State University of New York (SUNY) and Cornell University invite applications for the position of Director of the New York Sea Grant Institute, a cooperative program of these two universities.

Responsibilities: The director provides overall leadership for the development, conduct, and evaluation of the entire spectrum of research, education, communications, training, and extension activities undertaken by the institute. In collaboration with the Associate Director/Extension Program Leader located at Cornell, the director carries out a variety of leadership and management responsibilities.

Qualifications: The director must have a distinguished record of scholarly accomplishments in a marine-related discipline that would qualify him/her for a tenured appointment to the faculty of the Marine Sciences Research Center at the State University of New York at Stony Brook. A doctorate or appropriate equivalent degree is required. Ability to communicate effectively with diverse audiences, both orally and in writing, is required.

Successful administrative and supervisory experience, knowledge of the sponsored research process, and an understanding of and dedication to university outreach or extension activities are essential. Familiarity with an existing Sea Grant program and the Sea Grant or Land Grant mission is also highly desirable. Salary and benefits are competitive and commensurate with experience and qualifications.

Application procedure: Nominations and applications are invited. Applicants should submit a letter of application/interest, current curriculum vitae, and the names, addresses, and telephone numbers of three references to: Dr. J. R. Schubel, Chair, NYSGI Director Search Committee, c/o New York Sea Grant Institute, Dutchess Hall, SUNY at Stony Brook, Stony Brook, NY 11794–5001. Deadline for applications is 31 January 1991. SUNY at Stony Brook is an Affirmative Action/ Equal Opportunity Employer.

Unique opportunity to participate in the expansion of McLaughlin Research Institute, a small mammalian genetics center in Great Falls, Montana. Immediate openings for ESTABLISHED INVESTIGATORS to work in a nonbureaucratic, interactive research environment and to participate in the design of the new facility and in recruitment and selection of additional scientists. Current research programs are on the genetics of susceptibility to cancer and neurodegenerative diseases, but recruits will play a major role in determining future research directions. For more information, contact: George A. Carlson, Scientific Director, McLaughlin Research Institute, 1625 3rd Avenue North, Great Falls, MT 59401 or any of the following members of our Scientific Advisory Committee: Jeff Frelinger, Norm Reed, Lee Hood, Neal Copeland, or Irv Weissman.

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POSITIONS OPEN

DIRECTOR DIVISION OF MOLECULAR MEDICINE DEPARTMENT OF MEDICINE

The Department of Medicine at Cedars-Sinai Medical Center, a major teaching affiliate of the University of California, Los Angeles, School of Medicine, is recruiting for a DIRECTOR for the newly created Division of Molecular Medicine, serving as a focus for a growing number of molecular biologic investigators in several divisions and departments of the campus. Candidates may have either an M.D. or Ph.D. degree, and should be accomplished investigators with an extensive academic record in molecular biology and molecular genetics laboratory investigations. Please address all correspondence to: Glenn D. Braunstein, M.D., Chairman, Department of Medicine, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Suite B-118, Los Angeles, CA 90048–1869. Cedars-Sinai Medical Center is an Equal Opportunity Employer.

CALIFORNIA INSTITUTE OF BIOLOGICAL RESEARCH (CIBR)

We are seeking a **SENIOR APPOINTEE** to direct his or her own laboratory at this nonprofit private institute. The research program may be in any area of medically oriented biology. Primary consideration will be given to excellence in research and the ability to obtain funding. Laboratory space, start-up funding, and continuing grant subsidies are exceptionally generous. If you are energetic and want the freedom to pursue your ideas in the company of enthusiastic colleagues, this is the place for you! Write or call: Michael McClelland, CIBR, 11099 North Torrey Pines Road, La Jolla, CA 92037. Telephone: 619-535-5486.

Philadelphia: Department of Psychiatry, University of Pennsylvania, seeks RESEARCH ASSISTANT PROFESSOR as DIRECTOR of Core Assay Laboratory, Program Project on Thyroid Hormones, Episodic Behavior and Affective Disorders. Ph.D. in neuroendocrinology desirable; must be familiar with RIA techniques for hormones, neuropeptides, antibodies, etc. Own research interests encouraged. Program includes large body of investigators, both clinical and basic science. Send curriculum vitae and three references to: Peter C. Whybrow, M.D., Professor and Chairman, Department of Psychiatry, University of Pennsylvania, 305 Blockley Hall, 418 Service Drive, Philadelphia, PA 19104–6021. Equal Opportunity/Affirmative Action Employer.

ASSOCIATE LABORATORY DIRECTOR CLINICAL CYTOGENETICS

LGS/LABORATORIES FOR GENETIC SERVICES, INC., located in the Texas Medical Center, Houston, Texas, is seeking clinical cytogenetic applicants to fill the position of ASSOCIATE LABORATORY DIRECTOR. LGS, a private genetic diagnostic laboratory, serves a large national referral base for prenatal diagnostic studies, adult and pediatric genetic disorders and acquired neoplasias. LGS has formal academic affiliations with the Texas Medical Center. These academic affiliations enhance the professional advantages of the position. The laboratory currently occupies over 5000 square feet and will expand to 10,000 square feet in 1991. Biotechnology research and development is currently operative in both molecular and instrumentation areas and will expand with the new facilities. Requirements include a doctoral level degree and American Board of Medical Genetics certification or eligibility, Experience in molecular genetics is preferred but not required. Benefits are commensurate with experience. Please submit curriculum vitae, personal statement, and three professional references with addresses and phone numbers to: Peggy Pearce Caskey, President, LGS/Laboratories for Genetic Services, 6410 Fannin, Suite 910, Houston, TX 77030. Telephone: 713-797-9222; FAX: 713-797-9731. LGS is an Affirmative Action/Equal Opportunity Employer.

FREE PRODUCT INFORMATION SERVICE. Send a letter stating the specifics about your new laboratory and Science will put you in touch with the vendors whose products you will need. Write to: SCIENCE New Lab Service Department, 1515 Broadway, New York, NY 10036.

CLARE BOOTH LUCE PROFESSORSHIPS St. John's University Department of Biological Sciences

The Clare Booth Luce Fund of the Henry Luce Foundation, established through a bequest from Mrs. Luce, aims to increase the number of women in academic positions in scientific and technological fields in which they have historically been underrepresented. St. John's University, New York, one of the beneficiaries of the Fund, seeks applications for two Clare Booth Luce professorships in the biological sciences, to begin in the fall of 1991-92. The department currently has 16 faculty and strong programs leading to the B.S., M.S., and Ph.D. degrees.

Applicants should have the academic qualifications and background necessary for appointment as an assistant or associate professor, including an earned Ph.D. and post-doctoral research experience. Applicants for the rank of Associate Professor should have the experience and distinction expected at this level. Specialization in cellular, molecular, or developmental biology is preferred. Commitment to providing quality instruction, primarily at the graduate level, is expected. In addition, the successful candidate will be expected to establish a vigorous research program and to obtain external research support. According to the terms of the Luce Fund, Clare Booth Luce professors must be women who are citizens of the United States.

Applications, with a list of three references, should be sent to:

Richard A. Lockshin, Ph.D. Professor and Chairman Department of Biological Sciences St. John's University Jamaica, New York 11439.



St. John's is an equal opportunity employer – M/F.

Instructor— Biological Sciences

The Department of Science and Mathematics of FIT, a college for design and business professions under the program of the State University of New York, invites applications from qualified candidates for a full time, tenure-track position in BIOLOGICAL SCIENCES for Spring 1991. A Ph.D. is preferred, and candidates must have a commitment to, and experience in, teaching undergraduate courses to non-science majors. Candidate will be expected to teach undergraduate survey courses in the biological sciences and may be able to teach specialized elective courses. Send curriculum vitae, statement of teaching interests, and the names of 3 persons we might contact as references, by January 7, 1991, to:

Dr. Joseph Costelli, Chair Department of Science & Mathematics Fashion Institute of Technology Seventh Avenue at 27 Street New York City, 10001-5992

FIT is an Equal Opportunity/Affirmative Action Employer. Applications from minority and female candidates are strongly encouraged.

Fashion Institute of Technology

CELL BIOLOGY

Faculty Positions

The Department of Cell Biology at the Duke University Medical Center is undergoing a major expansion of its faculty over the next several years. Applicants are being sought who have a strong research background using the modern technologies of cell biology, molecular biology, and physiology and who are interested in participating in an interactive research community. The major focus of the department is to define molecular mechanisms for the function and development of cells and organs. Most appointments will be at the level of assistant professor.

Please send curriculum vitae, list of three references, and a brief description of proposed research to:

Michael P. Sheetz, Chairman Department of Cell Biology Duke University Medical Center Box 3709 Durham, NC 27710

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Important PRIVATE MEDICAL RESEARCH CENTER in PARIS area, member of one of the leading PHARMACEUTICAL companies in FRANCE is hiring for its DEPARTMENT OF CELLULAR AND MOLECULAR BIOLOGY

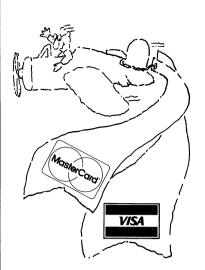
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Ph. D or post doctoral level

The successful candidate has long experience in receptor binding techniques and autoradiography.

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Full-time, permanent position in established company (40 employees) to market select scientific products. Previous business experience not as important as your motivation, writing, and interpersonal skills. Computer literacy required. Ph.D. in one of the physiological sciences desirable. Chicago location. Please submit curriculum vitae and salary history in confidence to: **Box 146, SCIENCE.**

THE UNIVERSITY OF BRITISH COLUMBIA HEAD, DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

The Faculty of Medicine, University of British Columbia, invites applications and nominations for the position of Head of the Department of Pharmacology and Therapeurics.

We seek an academic leader to be responsible for directing and developing the teaching and research programs of the department. The department has 12 full-time and one clinical/part-time faculty members and attracts strong research support. Candidates should have a proven record of scholarly activity, a strong research background, and a commitment to undergraduate and graduate medical education. Starting date will be 1 July 1991. Salary will be commensurate with experience and qualifications.

Applications, accompanied by a detailed curriculum vitae and the names of two references, should be directed by 31 January 1991 to:

Dr. M. J. Hollenberg
Dean, Faculty of Medicine
Room 317, Instructional Resources Centre
University of British Columbia
2194 Health Sciences Mall
Vancouver, BC, Canada V6T 1W5

The University of British Columbia is committed to the Federal Government's employment equity program and encourages applications from all qualified individuals. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

COOPERATIVE RESEARCH UNITS U.S. FISH AND WILDLIFE SERVICE

The U.S. Fish and Wildlife Service invites applications for (i) four fisheries research biologists (GS-482-11/12) to serve as ASSISTANT LEADER-FISHERIES at Cooperative Research Units in Minnesota, New York, North Carolina, and Vermont, and (ii) a wildlife research biologist (GS-486-12/13) to serve as LEADER OF THE GRAMBLING WILDLIFE PROJECT in Louisiana. Successful candidates will be located on cooperating university campuses and will receive a courtesy faculty appointment at the host university.

Assistant unit leader duties include establishing a strong research program, teaching at the graduate level, and technical assistance on fisheries resource issues.
Wildlife project leader duties include teaching at the

• Wildlife project leader duties include teaching at the undergraduate level, administration of all aspects of the project, and counseling undergraduate minority students in career and education opportunities.

Requirements for the positions include a record of research productivity or resource management training and experience, a commitment and ability to teach, and ability to administer research grants and program budgets. Candidates must meet the requirements for a faculty appointment.

gets. Candidates must meet the requirements for a faculty appointment.

To apply, send a completed SF-171 and OPM Form 1170 (List of College Courses) for each different vacancy of interest to: Ms. Dot Easley, Personnel Division, Research and Development, U.S. Fish and Wildlife Service, Mail Stop 725 ARLSQ, Washington, DC 20240. Applications must reference the particular state for which you are applying. Applications for the assistant leader positions must be postmarked no later than 7 January 1991; those for the project leader position must be postmarked no later than 22 January 1991.

Additional vacancies for unit leader, assistant leader, and Washington headquarters staff positions are expected to be announced in January 1991. For additional information, contact: Cooperative Research Units Center, USFWS, Mail Stop 725, ARLSQ, Washington, DC 20240. Telephone: 703-358-1709.

The Fish and Wildlife Service is an Equal Opportunity Employer. Applications are encouraged from women and minority candidates.

POSITIONS OPEN

MEETING REVIEWS EDITOR

The New Biologist, a journal of basic biological research, has an opening for a part-time or full-time meeting reviews editor to organize, solicit, edit, and sometimes attend and write articles for the meetings section of the journal. Applicants should have a broad interest in basic biology and good writing skills. Qualifications required include a Ph.D. with training or experience in cellular and molecular biology. Send letter of application and résumé to: R. Kulstad, The New Biologist, 7514 Wisconsin Avenue, Suite 500, Bethesda, MD 20814.

FACULTY POSITION IN ECOLOGY/ICTHY-OLOGY OR MAMMALOGY. The Biology Department, Middle Tennessee State University, invites applications for a tenure-track teaching position (ASSIST-ANT PROFESSOR, Ph.D.) available August 1991. The successful applicant must have a strong background in ecology/ichthyology or mammalogy and will teach lecture and laboratory sections in ecology and ichthyology or mammalogy at the undergraduate and graduate level and general biology at the undergraduate level as well as direct student research. Research and/or public service is expected. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Application deadline is 1 February 1991. Send application, transcripts, and three letters of recommendation to: Dr. Kurt Blum, Search Committee Chair, Box 321, Middle Tennessee State University, Murfreesboro, TN 37132.

The Department of Biology at the Virginia Military Institute (VMI), Lexington, Virginia, invites applications for a possible TENURE-TRACK POSITION commencing 1 August 1991. Requirements for position include ability to teach general biology, developmental biology, and upper-level courses in area of expertise. Preference will be given to candidates who hold the Ph.D. degree and who can also demonstrate an interest in conducting small animal research.

VMI is an undergraduate military college located in the Shenandoah Valley of Virginia. Faculty wear uniforms but are not required to perform nonacademic duties or to have prior military experience.

Interested candidates should send résumé, transcript, and three letters of recommendation by 1 March 1991 to: Fred C. Swope, Ph.D., Department of Biology, VMI, Lexington, VA 24450. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN GENETICS at University of Wisconsin (UW)–Madison. The Laboratory of Genetics, UW-Madison, invites applications for an ASSISTANT OR ASSOCIATE PROFESSOR of genetics. All areas of genetics and molecular genetics will be considered. A doctoral degree, postdoctoral experience, and demonstrated record of research accomplishments and scholastic potential are required. Applicants should send curriculum vitae, a statement of present and future research interests, representative reprints or preprints, and three letters of recommendation to: Genetics Search Committee, c/o Dr. Philip Anderson, 118 Genetics, University of Wisconsin, 445 Henry Mall, Madison, WI 53706. Application deadline is 1 February 1991. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

AQUACULTURE BIOLOGIST. The Department of Biological Sciences at Florida Institute of Technology (FIT) invites applications from individuals with strong research and teaching credentials in marine and/or freshwater aquaculture with emphasis on invertebrate/algal species. The candidate will be expected to develop an active research program with demonstrated potential for extramural funding, direct M.S. and Ph.D. students, participate in teaching, and cooperate with faculty in related areas of marine and conservation biology. Ph.D. and 2 years of postdoctoral experience essential. Position is available for fall of 1991. Rank is open and salary will be commensurate with qualifications and experience. Send curriculum vitae, a concise plan for future research, and names of three references to: Dr. G. N. Wells, Head, Department of Biological Sciences, 150 West University Boulevard, Melbourne, FL 32901–6988. FIT is an Equal Opportunity Employer. Applications from qualified women, ethnic minorities, and the handicapped are welcome.

FACULTY POSITION, MICROBIAL PATHOGENESIS. The Department of Microbiology at the Medical College of Ohio invites applications for a one tenure-track faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level for a new program in microbial pathogenesis. Candidates are being sought who have demonstrated excellence in research and whose investigations embrace modern approaches to understanding bacterial, viral, fungal, or parasitic disease mechanisms. Successful candidates are expected to develop independent externally funded research programs and to contribute to the teaching of medical and graduate students. Our laboratory and support facilities are outstanding. In addition, generous start-up funds will be provided. Salaries are competitive and commensurate with experience. Submit curriculum vitae, a statement of research goals, and three letters of recommendation by 31 March 1991 to: Earl H. Freimer, M.D., Chairman, Department of Microbiology, Medical College of Ohio, P.O. Box 10,008, Toledo, OH 43699. The Medical College of Ohio is an Equal Opportunity/Affirmative Action Employer.

MARINE ZOOLOGIST. Ph.D. for 1-year position to teach courses in the applicant's area of expertise and participate in teaching introductory level biology or general ecology. Send letter of application, résumé, and names and addresses of three references to: Search Committee, Biology Department, Bates College, Lewiston, ME 04240 by 20 January 1991. Bates College is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

FACULTY POSITIONS MOLECULAR BIOLOGY

Marshall University School of Medicine is seeking two individuals with training and experience in molecular biology to interface with faculty members working on an interdisciplinary program funded to investigate genetic and regulatory aspects of cell growth and calcium homeostasis. These currently available, tenure-track appointments will be made in physiology, biochemistry, or microbiology at the ASSISTANT OR ASSOCIATE PROFESSOR level depending on the individual's background and qualifications. Candidates should hold a doctoral degree and have two or more years postdoctoral training and experience in molecular and cell biology. Each individual is expected to develop a strong research program and aid in developing the research capabilities of faculty members and graduate students in cell and molecular biology. Interested candidates should send curriculum vitae, statement of research interests, and names of three references by 15 February 1991 to: Dr. Albert G. Moat, Chair, Search Committee, Department of Microbiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25755–9330. Marshall University is an Equal Opportunity/Affirmative Action Employer of the state of West Viroinia.

FACULTY POSITIONS IN MICROBIOLOGY MICHIGAN STATE UNIVERSITY (MSU)

The Department of Microbiology at Michigan State University intends to make at least two tenure-track, academic year appointments at the level of ASSISTANT PROFESSOR. Applicants are sought with expertise in aspects of the microbiology of lower eukaryotes including, but not limited to, systems of relevance to any aspect of parasitic disease. Responsibilities include developing an externally funded research program with national visibility, and limited teaching duties at the undergraduate, graduate, and/or professional school level. A Ph.D. degree and two or more years of postdoctoral experience are required. The Department of Microbiology at MSU is one of the largest and most diverse such departments in the nation, with faculty appointments in the Colleges of Natural Science, Human Medicine, Osteopathic Medicine, and Veterinary Medicine and the Michigan Agricultural Experiment Station. This search will be part of a larger hiring initiative to take place over the next 5 years. To apply, send curriculum vitae with a plan for future research and arrange for at least three letters of reference to be sent to: Dr. Larry Snyder, Chairperson, Search Committee, Department of Microbiology, Giltner Hall, Michigan State University, Bast Lansing, MI 48824. Review of applications will begin 1 February 1991. Michigan State University is an Affirmative Action/ Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.

RESEARCH SCIENTISTS

Battelle, Pacific Northwest Laboratories is the preeminent multiprogram national laboratory for rapid advancement of science and development of technology. This laboratory is located in southeastern Washington, which boasts a favorable climate and is completely devoid of traffic congestion and smog. Battelle's 1000+ research projects per year are handled by over 3,300 staff members. Continued growth prompts us to seek the following:

Geochemistry

The selected applicants will be accountable for developing techniques for elemental and oxidation state analyses, coordinating and assisting research and technical staff in use of analytical equipment methodologies.

Senior Research Scientist: Will also be responsible for ion chromatography, ICP and ICP-MS analysis, radiometric counting, solid phase characterization, and surface analysis. Maintaining a strong publication record based on original research is required. Familiarity with ion exchange, solvent extraction, spectrophotometric techniques, and computer software highly desirable. The individual is expected to plan and participate in laboratory and field investigations aimed at defining the fundamental, thermodynamic and geochemical behavior of elements.

Research Scientist: Will also be responsible for conducting research in estimation of chemical properties of environmentally important compounds, and interfacing with contaminant transport model development and application studies. Two to three years postdoctoral experience in transport of organic contaminants preferred. Experience in the application of computer modeling techniques to waste disposal problems and knowledge of FORTRAN and its application on IBM Personal Computers required.

Both positions require a PhD in Geochemistry, Environmental Chemistry, Civil Engineering, Chemical Engineering, or other related field. Respond to Dept. RZ10A.

Surface Water

The successful applicants will participate in the ongoing development of a modeling capability applicable to regional/mesoscale studies.

Senior Research Scientist: This principal investigator for terrestrial hydrology will work with an interdisciplinary team of researchers (e.g., hydrology, meteorology, ecology, remote sensing, etc.) to develop a methodology that deals with issues in scales (i.e., process aggregation and disaggregation) and alternate climate scenarios. Candidate must have record that reflects activity in these areas, and a minimum of five years experience in terrestrial hydrology, active in climate change research, and specialization in an aspect of terrestrial hydrology/watershed processes.

Research Scientist: You will participate in research that will improve the understanding of atmospheric and biospheric interactions with hydrologic processes. Programming skills in FORTRAN and C desired.

Both positions require an MS/PhD in Hydrology, Geosciences, Engineering, or equivalent. Strong background in terrestrial hydrology/watershed processes, snow, precipitation, runoff, infiltration, evapotranspiration, streamflow and water resources preferred. Respond to Dept. RZ10B.

Send resume to: Battelle, Pacific Northwest Laboratories, (indicate correct department number), P.O. Box 1406, Richland, WA 99352. U.S. Citizenship required. Equal Opportunity Employer.



RESEARCH AND DEVELOPMENT

andoz Pharmaceuticals Corporation is a leader in the research, development, manufacture, and sale of ethical and over-the-counter pharmaceuticals. We have the following positions available:

Postdoctoral Fellow— Iontophoretic Transdermal Delivery

Research activities will focus upon the mechanism of drug transport by iontophoresis. Particular emphasis will be placed upon identifying the physiological barriers to iontophoresis and the microscopic changes which occur within the skin during iontophoresis. The objective of the studies is to develop a model which rationalizes how changes in the current density and drug formulation affect iontophoretic transport.

This is a one-year appointment, renewable for a second year. A Ph.D. in Chemistry, Biochemistry, Pharmaceutical Sciences, Cell Biology, or Bioengineering is required. Background in either transport phenomena or skin physiology is desired. No experience with iontophoresis is required.

Assistant Fellow, Bioassay Development

Person will be responsible for the set-up and operation of a bioassay laboratory to support the development of monoclonal antibodies and recombinant proteins. The present focus is the improvement and validation of in-vitro viral neutralization assays. Future work will involve cytokine bioassays and cell receptor binding assays.

Position requires a Ph.D. in Cell Biology or related discipline. Strong background in mammalian cell culture and viral neutralization assays is essential. Good communication and supervisory skills are required.

Manager, Preformulation Research

Person will be responsible for directing the technical activities of the Physical Pharmacy/Preformulation Research Group. Activities include physiochemical characterization and mechanistic preformulation stability studies of new drug substances and raw materials.

Ph.D. in Analytical Chemistry, Physical Organic Chemistry, or Physical Pharmacy with 5-10 years of experience in pharmaceutical preformulation research is required. Technical expertise in analytical chemistry (HPLC, DSC, TGA, x-ray diffraction, powder properties), solid state chemistry (polymorphism), chemical stability and stabilization of dosage forms, and drug absorption is essential. Candidate must also possess excellent supervisory and communication skills.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey. For prompt, confidential consideration, forward your resume and salary requirements, indicating position of interest, in confidence, to:

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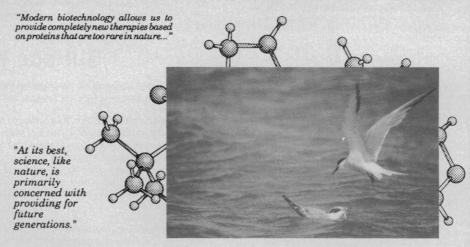


Creating a Better Future With Nature's Building Blocks

At Genetics Institute, our endeavors as a leader in biopharmaceutical research and development focus on that set of nature's building blocks we call proteins - specifically those proteins that are too rare in nature to be produced from natural sources. Through scientific excellence, innovative manufacturing, and the highest standards of quality, Genetics Institute is successfully developing complex products and building a better future.

Please forward your resume to Peter Lasky, Genetics Institute, One Burtt Road, Andover, MA 01810.

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Lab Head,

Pharmaceutical Analysis

Work independently to develop, validate, and document analytical methods for monitoring protein purity and stability in formulated drug products. A Ph.D. in chemistry or biochemistry and 5 to 10 years experience analyzing formulated drug products required. Direct experience with protein analytical methods (SDS-PAGE, IEF, RP/HPLC, SEC, CZE, CD, DSC, etc...) is essential. Supervisory experience and a strong publication record desirable.

Staff Scientist, Formulation Development

Must be able to effectively interact with scientists having diverse backgrounds. A Ph.D. in chemistry, pharmacy, biochemistry or related discipline, hands-on work with proteins and parenteral products and 2 to 5 years experience in the pharmaceutical industry required. Qualified candidate will have a proven track record successfully developing dosage forms for toxicology, clinical, and registration stability studies.

Genetics Institute



GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

The Geneva Molecular Biology Research Institute of one of the world's most successful healthcare groups is recruiting a

YEAST MOLECULAR GENETICIST

To join an expanding team of scientists applying the techniques of molecular biology to the identification of novel targets for anti-fungal therapy. The successful candidate must have a proven track record in the field of yeast molecular biology and experience in the cloning of yeast genes.

The Glaxo Institute for Molecular Biology carries out long term research to support the companywide drive to discover effective new medicines. The Institute has an international staff, grouped in teams of specialists in the key areas of modern Biology.

We offer a stimulating work environment, an excellent salary and benefits package, and opportunities for career development in one of the most attractive parts of Europe.

If you are interested in this position, please send your Curriculum Vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, GLAXO IBM SA., 46, route des Acacias, 1211 Geneva 24, Switzerland.

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Baxter Healthcare Corporation is synonymous with products, systems and services devoted to improving healthcare throughout the world. Our Los Angeles-based Hyland Division continues to develop and distribute a variety of human plasma derivative products. We're also investing in the future with a solid commitment to biotechnology. If you'd like to make a difference in the quality of life, consider the following positions:

SR. ANALYSTS: IMMUNOLOGY, COAGULATION

Primary responsibility will be development and fine tuning of analytical techniques leading to validated assay procedures. These individuals must be able to troubleshoot current and new methodologies utilizing their respective knowledge of immunology or coagulation chemistry. These positions require

an MS degree in immunology or biochemistry. (BS degree with extensive experience in the required fields will be considered.) Experience in an industrial/clinical laboratory as well as familiarity with CFR, GLP/GMP and statistical analysis as applied to assay validation is preferred, but not required.

We provide a non-smoking environment, competitive compensation package, and all the benefits you'd expect from a Fortune 100 Company. Please send your resume with salary requirements to: *Baxter Hyland Division, Human Resources Dept. RG*, 550 N. Brand Blvd., Glendale, CA 91203. Employment is contingent upon the result of a drug screening test. An Affirmative Action/Equal Opportunity Employer.

Hyland Division

Baxter

BIOLOGIST/SCIENCE EDUCATOR. The Biology Department, Middle Tennessee State University, invites applications for a tenure-track teaching position beginning August 1991. Doctorate in biology or science education and strong background in biology and elementary education required. Successful applicant will teach courses in general biology and life science for elementary teachers. Research and/or public service is expected. Involvement in external funding and operation of the Environmental Education Center is also required. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Application deadline is 1 February 1991. Send application, transcripts, and three letters of recommendation to: Dr. Philip Mathis, Search Committee Chair, Box 578, Middle Tennessee State University, Murfreesboro, TN 37132.

CORAL REEF ECOLOGIST. The Department of Biological Sciences at Florida Institute of Technology (FIT) invites applications from individuals with strong research and teaching credentials in coral reef ecology with emphasis on coral reef fish, population dynamics, and systems ecology. The candidate will be expected to develop an active research program within the Florida/ Caribbean habitat with potential for extramural funding, direct M.S. and Ph.D. students, participate in teaching, and cooperate with faculty in related areas of marine and conservation biology. Ph.D. and 2 years of postdoctoral experience essential. Position is available for fall of 1991. Rank is open and salary will be commensurate with qualifications and experience. Send curriculum vitae, a concise plan for future research, and names of three references to: Dr. G. N. Wells, Head, Department of Biological Sciences, 150 West University Boulevard, Melbourne, FL 32901–6988. FIT is an Equal Opportunity Employer. Applications from qualified women, ethnic minorities, and the handicapped are welcome.

University of California, San Diego. TENURED/TENURE-TRACK POSITIONS IN BIOCHEMISTRY AND IN PHYSICAL CHEMISTRY. The Chemistry Department of the University of California, San Diego, is recruiting for two positions, one each in the areas of biochemistry and physical chemistry. Candidates must have a Ph.D. and a demonstrated ability for creative research and for teaching at the undergraduate and graduate levels. Of special interest for the biochemistry appointment are the areas of structural biochemistry and biochemical regulation. Candidates at all levels are encouraged to apply. Open positions subject to availability of funds. All applications received through 11 February 1991 will be given thorough consideration. Salary commensurate with experience and based on the University of California pay scale. Candidates should send curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans, and names and addresses of three references to: University of California, San Diego, Chairman, (Biochemistry) (Physical Chemistry) Search Committee, Department of Chemistry—0332, 9500 Gilman Drive, La Jolla, CA 92093–0332. The University of California is an Equal Opportunity/Affirmative Action Employer.

JUNIOR/SENIOR FACULTY POSITIONS MOLECULAR BIOLOGY AND MACROMOLECULAR STRUCTURE

The Department of Biochemistry and Molecular Biology at Indiana University School of Medicine is seeking applicants for two full-time, tenure-track positions at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR level. Applicants should have a Ph.D., M.D., or equivalent degree and postdoctoral experience in a relevant area. It is expected that the new faculty will develop independent research programs; significant space and start-up funds are available. Faculty are involved in both graduate and medical education. We are seeking to recruit one person in each of the following research areas:

(i) EUKARYOTIC MOLECULAR BIOLOGY, especially gene expression/regulation.

especially gene expression/regulation.
(ii) MACROMOLECULAR STRUCTURE, especially x-ray crystallography or NMR.

Applicants should submit their curriculum vitae, a description of research plans, and the names of three references to: Dr. Peter J. Roach (i) or Dr. William F. Bosron (ii), Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Indianapolis, IN 46202–5122. Indiana University is an Equal Opportunity/Affirmative Action Educator, Employer, and Contractor.

POSITIONS OPEN

FROSTBURG STATE UNIVERSITY (FSU) DEPARTMENT OF BIOLOGY

B.S. and M.S. degrees in biology, wildlife, and fisheries management offered for approximately 250 majors. VERTEBRATE BIOLOGY: reopened search. Three-year contractual FACULTY POSITION (with possible renewal as tenure track), to teach courses in ornithology, wildlife techniques, and general ecology and may participate in other vertebrate zoology courses. Subject to funding and/or approval to hire. Ph.D. required at time of appointment (August 1991). Department/FSU service and research required. Participation in International Institute for Renewable Natural Resources (emphasis: southern Africa/Central America) desirable. Telephone inquiries only to: Dr. James Howard, 301-689-4168. Send letter of interest detailing relevant qualifications, curriculum vitae, graduate and undergraduate transcripts, summary of teaching evaluations/evidence of teaching skills (if available), and names, addresses, and telephone numbers of three references not later than 18 January 1991 to: Mr. C. Douglas Schmidt, Director of Personnel Services, Frostburg State University, Frostburg, MD 21532. Women/minorities are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

The Department of Internal Medicine is offering the opportunity for a TENURE-TRACK APPOINT-MENT in the area of health services research as a member of the General Medicine, Clinical Epidemiology and Health Services Research Division. A secondary appointment will also be available in the Graduate Program in Hospital and Health Administration/Center for Health Services Research. The secondary appointment will provide access to superior research resources and master's as well as doctoral students. The Department of Internal Medicine has outstanding clinical facilities, significant funding for research start-up expenses, opportunities to participate in hospital-wide quality assurance programs and in a consortium of major medical centers cooperating in health services research initiatives, and a VA-centered health services research program. Qualifica-VA-centered nearth services research program. Quantications: M.D. degree, Board eligibility in internal medicine. Applicant should have demonstrated abilities and skills in research related to health services and in teaching and clinical medicine. Responsibilities: Development of and participation in research programs in health services research commensurate with the demonstrated ability of the applicant. The applicant will be expected to partici-pate in teaching and clinical activities of the Department of Medicine. Salary is based on the academic level of entry and on the applicant's qualifications and responsi-bilities. Women and minorities are encouraged to apply. Applications will be received until position is filled. Direct inquiries or submit curriculum vitae and bibliography to: Richard P. Wenzel, M.D., Chair, Search Committee for Health Services Research, Division of General Medicine, Clinical Epidemiology and Health Services, Department of Internal Medicine, The University of Iowa College of Medicine, Iowa City, IA 52242. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Available to study the regulation and role of cell-associated protein-ases (normal and neoplastic cells) in tissue-invasive processes [e.g., N. Engl. J. Med. 320, 365 (1989); J. Clin. Invest. 83, 1122 (1989); Science 249, 178 (1990)]. Preference given to individuals with strong background in biochemistry or molecular biology of the extracellular matrix. Submit curriculum vitae and letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine, University of Michigan, Simpson Memorial Institute, 102 Observatory Street, Ann Arbor, MI 48100

POSTDOCTORAL POSITION. Available immediately to participate in research on molecular virology and immunology of HIV/SIV in vitro and in vivo studies using chimpanzees and macaques under the direction of Dr. Jorg Eichberg. A Ph.D. in microbiology/immunology with experience in the virological and immunological aspects of human and nonhuman primate retroviruses is preferred. Salary ranges from \$22,339 up, with consideration for prior relative postdoctoral experience. Send curriculum vitae and the names and telephone numbers of three references by 15 January 1991 to: Personnel Director (054), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228–0147. Equal Opportunity Employer, M/F.

POSITIONS OPEN

ENVIRONMENTAL SCIENTIST. Barnard College Department of Environmental Science seeks earth scientist, chemist, or biologist for TENURABLE POSITION. Rank open. Research opportunities in earth sciences at Columbia's Lamont-Dougherty Geological Observatory. Please send curriculum vitae, brief statement of teaching and research interests, and three letters of recommendation by 1 February 1991 to: Dr. Julia Chase, Barnard College, Columbia University, New York, NY 10027. Affirmative Action/Equal Opportunity Employer.

PLANT MOLECULAR BIOLOGISTS PENNSYLVANIA STATE UNIVERSITY

The Department of Biology invites applications for new FACULTY POSITIONS in plant biochemistry and/or morphogenesis. PLANT BIOCHEMISTRY: Areas of interest include, but are not restricted to, the role of hormones in development, environmental stress, and biochemical ecology. PLANT MORPHOGEN-ESIS: Areas of interest include, but are not restricted to, genetic regulation of morphogenesis, molecular basis of morphological evolution, and structure/function relationships (including environmental interactions). Candidates must have postdoctoral training, significant research accomplishments, and evidence of potential to develop an outstanding research program. Send curriculum vitae, statements of research and teaching interests, and three reference letters to: Search Committee, Box P, Department of Biology, 208 Mueller Laboratory, University Park, PA 16802. Applications received before 25 January 1991 will be assured of full consideration.

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Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS, MOLECU-LAR BIOLOGISTS. Recombinant vaccine development. Isolation of molecular clones for monoclonal Fab fragments. Isolation of molecular clones for synthetic epitopes. Applications to cancer and AIDS. Molecular analysis of chromosomal abnormalities occurring in human cancer. Forward curriculum vitae and three letters of recommendation to: Alban J. Linnenbach, Ph.D., The Wistar Institute, 36th at Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL POSITIONS. Available in research related to autoimmune diseases at the Harvard Medical School and the Center for Neurologic Diseases of Brigham and Women's Hospital. One position requires expertise in molecular biology and, in particular, experience in expression vectors and production of recombinant proteins. Other positions relate to basic immunologic studies of antigen-specific tolerance in animal models of autoimmune disease and T cell receptor molecular biology. Send curriculum vitae plus names and telephone numbers of three references to: Dr. Howard L. Weiner, Co-director, Center for Neurologic Diseases, Brigham and Women's Hosptial, 75 Francis Street, Boston, MA 02115.

POSTDOCTORAL POSITION. Available to study the electrophysiology of mammalian glial cells. Voltage-clamp, single channel recording, and imaging techniques will be used to characterize the ion channels of cultured astrocytes. Previous experience with astrocyte cell culture or co-cultures of astrocytes and vascular endothelial cells is desirable. Send curriculum vitae and names of three references to: Dr. Eric Newman, Department of Physiology, University of Minnesota, 6-255 Millard Hall, 435 Delaware Street, S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

MOLECULAR NEUROBIOLOGIST/ PHARMACOLOGIST

Multidisciplinary laboratory seeks scientist at POST-DOCTORAL/RESEARCH ASSOCIATE level to join in isolation, molecular, and functional characterization of novel neuropeptides and neurotransmitter/hormone receptors. Background in molecular biology or pharmacology desirable. Permanent resident/U.S. citizens only. Please send curriculum vitae and bibliography to: C. Wahlestedt/D. J. Reis, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, KB410, New York, NY 10021. Equal Opportunity/Affirmative Action Employer, M/F/H/V.

OPPORTUNITIES IN PHARMACOLOGY

Neurogen Corporation, a young dynamic company in the field of neuroscience, is currently expanding its staff in pharmacology. We offer several opportunities for innovative scientists wishing to join our multidisciplinary staff. Neurogen scientists are developing novel therapeutics for neurological and psychiatric disorders.

Senior Scientist (Pharmacokinetics)

Candidates must have a Ph.D. degree in Pharmacology, Analytical Chemistry or a related discipline and have several years postdoctoral experience in the absorption, distribution and metabolism of drugs. Candidates should have a solid background and publication record in the pharmacokinetic evaluation and interpretation of analytical data for central nervous system active compounds. Previous industrial experience would be helpful.

Postdoctoral or Senior Scientist in vivo dialysis)

Candidates must possess a Ph.D. degree in Pharmacology or Biochemistry and have prior experience with *in vivo* dialysis approaches to neurotransmitter release or action. Senior Scientist level position requires additional in depth postdoctoral experience and significant publication record in this area.

Neurogen is located in Branford, Connecticut, close to New Haven. We offer a stimulating intellectual environment and state of the art laboratory facilities. Neurogen has a comprehensive compensation program consisting of competitive salary, equity, participation, health and medical programs, as well as relocation assistance.

Interested candidates should send resumes to Director of Human Resources (PHARM), Neurogen Corporation, 35 N.E. Industrial Road, Branford, CT, 06405.

Neurogen Corp.

Mammalian Genetics

Agracetus, a biotechnology research company owned by W.R. Grace & Co., is seeking highly motivated individuals to join an expanding research program addressing broad applications in mammalian genetic modification.

Postdoctoral Fellowships

Candidates should have a Ph.D. with specialized interests in one or more of the following areas: construction and use of mammalian gene expression vectors, molecular biology, immunology, analysis of gene expression in transfected mammalian cells or transgenic animals. Previous experience in cell biology, cell culture manipulations, tissue extractions and biochemical assays is highly desirable. Appointments of 2 years' duration will enable independent research within a highly collaborative group of scientists. Publication of competitive research findings is encouraged.

Research Scientists

Candidates should hold a Ph.D. degree and will have demonstrated experience in mammalian gene transfer, gene therapy, vector construction, mammalian physiology, somatic cell and biochemical genetics, or broadly related areas of research. Relevant postdoctoral experience is highly desirable. The successful candidates will initiate new research projects and join ongoing programs directed toward technology development to enable mammalian genetic modification.

Agracetus offers a competitive salary and a comprehensive benefits package. Our research complex, located near the University of Wisconsin in Madison, provides an ideal setting for both career and lifestyle enhancement. **Send resume to Dr. Kenneth Barton, Director of Research, Agracetus, 8520 University Green, Middleton, WI 53562.** We are an Equal Opportunity Employer.



National Institutes of Health

Research Scientist and Postdoctoral Fellows

TASTE AND SMELL

Research Scientist (D.M.D., M.D., Ph.D., D.D.S.) sought to head a new research project on Taste and Smell. Areas of investigation will include the nature of the cell surface receptors, mechanisms of signal transduction and membrane channels. Training in molecular biology, protein chemistry and cell biology is desirable. Positions for post-doctoral fellows also are available. Salary is commensurate with experience. Send Curriculum Vitae and names of references to:

Dr. Lois Salzman, Deputy Director Intramural Research Program National Institute of Dental Research National Institutes of Health 9000 Rockville Pike Building 30, Room 121 Bethesda, MD 20892

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Max-Planck-Institute for Biochemistry Martinsried / Munich

Research Units to be headed by Junior Scientists

The Max-Planck-Institute for Biochemistry seeks outstanding candidates (M.D., Ph.D.) for group leader positions. Research programs at the institute encompass the areas of molecular, structural, developmental and cell biology, membrane biochemistry, virus and viroid research as well as molecular pathology. Cooperation with hospitals on the molecular basis of human disorders has been established.

The successful candidates will have had several years of postdoctoral experience and an outstanding record of achievement in one of these research areas. The available positions represent five year appointments at a level equivalent to associate professor (C3). Appropriate laboratory space, funds for laboratory set-up and operation, and additional salaries for one Ph.D. level scientist and one technician will be guaranteed; fellowships for postdoctoral fellows and graduate students are subject to negotiation.

Candidates should submit their curriculum vitae, a list of publications, a short description of their future research objectives, and the names of three scientists familiar with the candidate's research accomplishments and scientific potential to:

Professor P.H. Hofschneider Chairman, Search Committee Max-Planck-Institute for Biochemistry 8033 Martrinsried Federal Republic of Germany

Application deadline: 31 January 1991

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Please submit CV and a hand-written letterquoting ref. 10300 to Media System, 6 Impasse des 2 Cousins, 75849 Paris Cedex 17.

Department of cellular and molecular biology



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VETERINARY PATHOLOGIST

Rohm and Haas Company, a leading specialty chemical company with global research and business interests, has an immediate opening for a Veterinary Pathologist. This position is in our Toxicology Department, located at our Corporate Research Center in Spring House, PA — about 20 miles north of center-city Philadelphia.

The candidate of choice must have a DVM/VMD degree with ACVP certification, as well as experience in toxicologic pathology. Research interests in the mechanisms of toxicity and cell proliferation are desirable. Outstanding interpersonal and communicating skills, for effective interaction with the academic community and regulatory agencies, are essential.

We offer a competitive program of salary and benefits, including relocation assistance. We also invest heavily in research and in programs to foster the professional growth of our scientific staff. Candidates must be legally entitled to hold regular employment in the U.S.

For consideration, please forward your resume or C.V., to: Corporate Staffing #2490, Research Recruiting, B-70, Rohm and Haas Research Laboratories, 727 Norristown Road, Spring House, PA 19477.



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Research Scientist Immunology

Cutter Biological, Miles Inc., a leading San Francisco Bay Area manufacturer of therapeutic biological products, has an immediate opening for a research scientist with training in immunology. The successful candidate would join a multi-disciplinary research team dedicated to the development of novel anti-infective and anti-inflammatory therapeutics based upon either monoclonal or recombinant DNA technologies. We are especially interested in individuals with a strong background in immunology plus specialized expertise in human monoclonal technology and in vitro sensitization methods.

Qualifications are a relevant Ph.D. plus at least 4 years related postdoctoral experience. A demonstrated ability to conduct independent and creative research is required.

Send resume & job history to JoAnn McHugh, P.O. Box 1986, Berkeley, CA 94701.



EOE/AA

Molecular Biologist Institute for Biomolecular Science University of South Florida

The University of South Florida Institute for Biomolecular Science, an interdisciplinary consortium of University faculty and scientists, and the **Department of Biology** invite applications for a tenure-track position at the level of Assistant or Associate Professor. Candidates should have a Ph.D. and postdoctoral research experience in the area of eucaryotic molecular biology (plant or animal). This is one of four positions and an Endowed Chair that will be filled by the Institute over the next two years as part of a State-funded expansion program. The position is funded through the Institute, with academic appointment in the Department of Biology. Excellent laboratory facilities, start-up funds, and opportunities for collaboration are available. Title and salary (nationally competitive) will be commensurate with qualifications and experience. The successful candidate would be expected to establish a strong, externally-funded research program, to train graduate students at the Ph.D. level, and to teach an undergraduate course such as cell biology or general genetics and a graduate course in her/his area of specialty. The position offers an excellent opportunity for professional growth in an attractive living and working environment. USF is a comprehensive research and teaching university located in the Florida Gulf Coast area, a region of the State recognized for its rapid growth and high technology focus. Applicants should forward a letter of interest, curriculum vitae, reprints of representative recent publications, and statements of research and teaching interests. Candidates should also arrange for three letters of recommendation to be forwarded. Deadline for receipt of applications, supporting documents, and letters is February 8, 1991. Address all materials and correspondence to: Dr. Gregory J. Stewart, Chairperson, Molecular Biology Search Committee, Institute for Biomolecular Science, LIF 136, University of South Florida, Tampa, Florida 33620-5150.

The University of South Florida is an Equal Opportunity/Affirmative Action Institution and encourages applications from minorities, women, and the handicapped. According to Florida law, application files and meetings to review applicant files are open to the public. Join Wyeth-Ayerst Laboratories, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fastpaced, innovative team at our Princeton, NJ research facility.

PHARMACOLOGIST CNS Pharmacology

Assist with preclinical psychopharmacological evaluation related to the therapeutic indications of schizophrenia, stroke and dementia. Requirements include a BS/MS in Life Sciences or related area with 2-5 years laboratory experience which should include behavioral testing procedures, computer controlled experimentation and drug preparation. Good oral/written communication skills are required.

Wyeth-Ayerst offers an excellent compensation and benefits package in our highly professional environment. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/H/V. Principals Only.



POSTDOCTORAL POSITION

Position available for an individual with a PhD in biochemistry, cell biology or pharmacology with experience in molecular biology. The successful applicant will clone and express novel forms of adenylyl cyclase (see Science 244:1558–1564). Emphasis will be placed on determining those structural features of adenylyl cyclase subtypes that are responsible for mediating unique physiological responses.

Competitive salary and fringe benefits are available. Send curriculum vitae with the names and telephone numbers of three references to:

Dr. John Krupinski Weis Center For Research **Geisinger Clinic**

Danville, PA 17822-2610

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AMERICAN HEALTH FOUNDATION

DIVISION OF NUTRITION & ENDOCRINOLOGY

NUTRITIONAL/LIPID BIOCHEMIST

We are seeking to fill a position at the rank of Associate Research Scientist. The individual appointed should have a Ph.D. in Nutritional or Lipid Biochemistry, with postdoctoral experience in some aspect of lipid research, preferably as it relates to cell biology. Expertise in eicosanoid biosynthesis and metabolism, or in lipids and cell membrane function are among the areas which would be regarded as particularly appropriate.

The appointee should exhibit potential for developing his/her independently-funded research program, as well as forming collaboration with other staff members.

This new post is considered to be a key one for the Division and is likely to lead to a permanent appointment.

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Dr. David Rose, Division Chief Division of Nutrition & Endocrinology AMERICAN HEALTH FOUNDATION 1 Dana Road Valhalla, NY 10595

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Entomology Coordinator... will have responsibility for providing overall scientific direction for the insect rearing and bioassay laboratory. The laboratory provides insects for greenhouse and field screening by plant breeders and conducts bioassays to evaluate genes and gene products. A major responsibility will be the development of new, efficient insect bioassay methods for insects of corn, soybeans, sorghum, alfalfa, wheat and sunflower. The Entomology Coordinator will hire, supervise and develop project employees. The position will require extensive collaboration with Biotechnology and Breeding Department scientists. The Entomology Coordinator will also have responsibility for coordinating and supervising the activities of the field entomology manager.

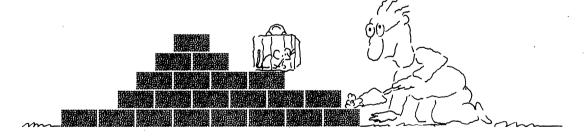
A Ph.D. in entomology and 3-5 years experience in the laboratory aspects of entomology are required. Experience with insect bioassays is preferred.

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STAFF ASSOCIATE FOR PSYCHOLOGICAL RESEARCH ON HUMAN DEVELOPMENT SOCIAL SCIENCE RESEARCH COUNCIL. NEW YORK

The Social Science Research Council is planning to expand the range of its behavioral science programs and is recruiting a research psychologist for the position of Staff Associate. The initial focus of the expanded program will emphasize topics in child, adolescent, and adult development; it will emphasize research and theory building about cross-societal, multi-ethnic and multi-cultural differences and commonalities in life-span developmental processes and transitions. The Staff Associate also will assist the Council in identifying a range of additional intellectual opportunities to engage the discipline of psychology more fully in the interdisciplinary agenda of the Council.

Duties would include: establishing and maintaining relationships with individual scholars, academic institutions, foundations, and other organizations; preparing and negotiating grant proposals; planning seminars, workshops, and conferences; and overseeing fellowship and grants competitions. Staff Associates undertake major responsibilities for developing and administering several programs of research and research planning efforts by committees and consortia of Council-chosen scholars in the U.S. and abroad.

Applicants must have a research Ph.D. in psychology or human development and be broadly knowledgeable about developmental influences arising from both biological and sociocultural factors. Individuals with significant experience in research, program implementation, and/or science administration are encouraged to apply. The Council strongly encourages minority candidates to apply. Candidates who might take full-time leaves of absence from tenured faculty or similar positions for a period of two or three years would be considered.

Council salaries are commensurate with experience and qualifications. Provisions are made to enable staff associates to continue their professional development while at the Council.

To be assured of full consideration, candidates should submit a letter of application, curriculum vitae, samples of written or published work, and names of three professional references. The Council is seeking an applicant who can take up the position as soon as possible, but the search will continue until a suitable candidate is selected. Screening of applications will begin on December 15, 1990. Nomination and application materials should be addressed to:

Ms. Dorie Sinocchi Assistant to the President Social Science Research Council 605 Third Avenue New York, NY 10158

Inquiries can be directed to Ms. Sinocchi at (212) 661-0280; Fax: (212) 370-7896

The Social Science Research Council is an Equal Opportunity Employer.

California Institute of Technology

The James Irvine Foundation Minority Postdoctoral Fellowship

In accordance with the California Institute of Technology's active participation and policies of affirmative action, we announce a grant award from The James Irvine Foundation to support postdoctoral fellowships for American citizens who are members of minority groups. Combined with support from Caltech, this grant will fund two fellowships each year, each with an annual stipend of \$36,000, and additional research and travel funds. The duration of this appointment will be for no more than three years, beginning with the 1991-92 academic year. Fellows are eligible to participate in Caltech's health and dental program.

The James Irvine Foundation Minority Fellowship was established to help increase the representation of minorities in the sciences and engineering. It is available to those who have received their doctorate in the sciences or engineering and who are United States citizens and are members of the following groups: Native American, African American, Hispanic, Native Alaskan, or Native Pacific Islander.

Applications should include a letter outlining desired field of research and a curriculum vitae. Three letters of reference should be submitted directly. All correspondence should be addressed to:

James Irvine Fellowship Search Committee California Institute of Technology Mail Code 210-31 Pasadena, California 91125

Completed applications with references should arrive at Caltech before March 15, 1991.

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.

POSTDOCTORAL POSITION IN BEHAVIOR-AL NEUROSCIENCE. Unique opportunity to work in a laboratory focusing on the neurochemical and molecular biological substrates of stress-induced behavior. Opportunities exist to collaborate with other neuroscientists. Send curriculum vitae and names of references to: Ned H. Kalin, M.D., Department of Psychiatry, B6/ 268, 600 Highland Avenue, University of Wisconsin, Madison, WI 53792. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW. Position open for postdoctoral fellow to study systemic and renal hemodynamics and changes in vasoactive humoral substances before and after altered divalent ion nutrition. Ph.D. in physiology or pharmacology required. This position is for 2 years of support. Salary is negotiable. Closing date: 1 January 1991. Submit curriculum vitae to: **Edward T**. Zawada, Jr., M.D., Professor and Chairman, University of South Dakota School of Medicine, P.O. Box 5046, Sioux Falls, SD 57117-5046. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW FOX CHASE CANCER CENTER

Research involves the study of molecular mechanisms of anticancer drug action in colon tumors. Familiarity with the methods of molecular biology preferred. Submit résumé and names of three references to: Dr. Peter O'Dwyer, c/o Personnel Representative-POD, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

LAKE CHAMPLAIN SUMMER FELLOW. Available July/August 1991 for outstanding postdoctorate scholar to participate in research on Lake Champlain in such areas as physical processes, toxics, and bioener-getics. Successful candidate will work closely with mem-bers of Lake Champlain Research Consortium. Funds available for stipend, living expenses, and modest supply support. Send letter of inquiry, including research interests, and curriculum vitae by 15 January 1991 to: Dr. Alan McIntosh, Vermont Water Resources Research Center, University of Vermont, Burlington, VT 05405.

FELLOWSHIPS IN MATHEMATICS AND MOLECULAR BIOLOGY

The Program in Mathematics and Molecular Biology has graduate and postdoctoral fellowship support available. Current topics in the program include geometry, topology, and sequence analysis of DNA; molecular dynamics; and mapping functions and algorithms for DNA and protein structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Initial contact deadline: 15 January 1991. Women and minorities are encouraged to apply Apply to: Dr. S. J. Spengler/Dr. N. R. Cozzarelli, 214A Stanley Hall, University of California, Berkeley, CA 94720. E-mail: sylviaj@violet.berkeley.edu.

NEW ZEALAND UNIVERSITY OF CANTERBURY POSTDOCTORAL FELLOWSHIP (CHEMISTRY)

Applications are invited for a 2-year University Grants Committee postdoctoral fellowship to test methods for aluminium toxicity in soils. The research fellow will participate in an ongoing project on the quantitative and operational speciation of aluminium in solution and on the development of field tests for the toxic fraction of aluminium in soils. Applicants may be experienced in solution equilibria, soil science, environmental or analytical chemistry.

The emolument for a fellowship shall be at a rate not exceeding the lowest step of the lecturer salary scale (NZ\$37,440 per annum).

Inquiries may be directed to: Dr. H. K. J. Powell, Department of Chemistry, FAX 64 3 3483 308.

The fellowship must be commenced no later than 20

June 1991.

Before submitting a formal written application, candidates are requested to obtain Conditions of Appointment from the undersigned.

Applications, quoting Reference Code C89/01, close on 28 February 1991 and must be addressed to: A. W. Hayward, Registrar, University of Canterbury, Private Bag, Christchurch, New Zealand.

POSITIONS OPEN

HUDSON RIVER FOUNDATION FELLOWSHIPS

DOCTORAL FELLOWSHIPS sponsor doctoral research on topics of environmental, ecological, and public health concern to the Hudson River estuary. The fellowships provide a stipend of \$11,000, plus \$1,000 toward supplies. Applications must be received by 15 March 1991.

TIBOR T. POLGAR FELLOWSHIPS support undergraduate and graduate research projects on the ecology (chemical, physical, and biological) and public policy aspects of the Hudson River estuary. Summer salaries of \$3500 and limited research funds will be provided. Sponsoring professors will receive a \$250 stipend. Proposals must be submitted by 1 March 1991.

Information on how to apply for these fellowships may be obtained by requesting the foundation's Annual Program Plan from: The Hudson River Foundation, 40 West 20th Street, Ninth Floor, New York, NY 10011. Telephone: 212-924-8290.

POSTDOCTORAL FELLOWSHIPS ENDOCRINOLOGY, METABOLISM AND NUTRITION

Exceptional basic and clinical research training for Ph.D.'s and M.D.'s planning academic careers. Available 1991 and 1992. Ten faculty with interests in reproductive endocrinology, isotopic assessment of glucose and amino acid metabolism in normal and pathologic states, growth factors, hypothalamic and posterior pituitary polypeptides, insulin secretion, nutrition and cancer. Contact: Ronald Swerdloff, M.D., Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509. Telephone: 213-212-1867.

POSTDOCTORAL ASSOCIATE

A postdoctoral position is available immediately to study protein methylation in eukaryotic cells and their regulation during gametogenesis. Background in protein chemistry or molecular biology preferred. Send curriculum vitae and names of three references to: Dr. Clare O'Connor, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

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POSTDOCTORAL ASSOCIATE. Study and identify the role of pepsinogen in acute gastric lesion so that the prevalence, therapy, and natural history of gastritis may be altered in humans. Delineate chief cell abnormalities in gastric mucosal lesions from isolated gastric glands and cells. Identify and characterize signal trans-duction mechanisms in chief cell. Ph.D. required in biology/chemistry/physiology or biochemistry, plus 3 years of training in laboratory research and detailed knowledge of acid and pepsinogen secretions by gastric glands; protein chemistry, receptor characterization/pu-rification as evidenced by previous doctoral research work or authored publications in this discipline. Forty hours per week; \$23,310 per year. Submit résumé to: Job Service Technical Unit, Connecticut Department of Labor, 200 Folly Brook Boulevard, Wethersfield, CT 06109. Refer to Job Order No. CT3079316.

POSTDOCTORAL ASSOCIATE (two positions). The Biology Department of Georgia State University has RNA virus replication and pathogenesis. Research projects focus on the regulation of RNA-dependent-RNA replication of flaviviruses and the mechanisms of gene expression and genetically restricted pathogenesis for a new corona-like virus. Some experience in virology, for a new corona-like virus. Some experience in virology, recombinant DNA methods, and protein expression and purification are desired. Starting salary: \$22,000 per year, with potential for 2- to 3-year appointment. Send curriculum vitae and three letters of reference to: **Dr**. Margo A. Brinton, Biology Department, P.O. Box 4010, Georgia State University, Atlanta, GA 30302–4010 by 15 March 1991. Georgia State University, a unit of the University System of Georgia, is an Equal Opportunity Educational Institution and an Equal Opportunity/Affirmative Action Employer. (60521)

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POSITIONS OPEN



United States Department of Agriculture

RESEARCH ENTOMOLOGIST/BIOCHEMIST

Corn Insects Research Unit Ankeny Iowa ARS is seeking an entomologist to join a group developing an steering an entire to join a group exterping an integrated management program for insect pests of corn. Successful candidate will be responsible for developing research to determine (i) factors in corn plants that attract adult European corn borer to oviposit, (ii) chemical and physical factors that allow some seedling corn plants to recover after attack by armyworm or the cutworm complex, and (iii) chemical and physical factors in the corn agroecosystem that facilitate population buildup of natural enemies (micro and macro).

Ph.D. in entomology is desired with training in insect or plant biochemistry, insect behavior, statistics, and

basic computer skills.

Must be U.S. citizen. Salary is commensurate with experience (\$29,891 to \$39,407). For information on the research program and/or position, contact Leslie C. Lewis at 515-964-6664. For information on application procedures/forms, contact Janie Carr at 301-344-4569. Applications in response to this advertisement should be marked 1N007.

Applications must be received by 12 March 1991. Mailing address:

USDA, Agricultural Research Service Personnel Operations Branch Northern Section Building 419, BARC-East Beltsville, MD 20705

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ASSISTANT RESEARCH SCIENTIST. Position available (3 years) to study the role of oxidants and proteinases in leukocyte-mediated tissue damage [e.g., N. Engl. J. Med. 320, 365 (1989); Science 249, 178–181 (1990)]. Strong background in cell biology/biochemistry is essential. Salary: \$35–40,000. Must be U.S. citizen or permanent resident of the United States. Submit curriculum vitae and letters of reference to: Dr. Stephen Weiss, Upjohn Professor of Medicine, University of Michigan, Simpson Memorial Institute, 102 Observatory Street, Ann Arbor, MI 48109.

SENIOR ORGANIC CHEMIST. Minimum qualifications: Ph.D. in organic chemistry and 5 years of experience in postdoctoral research. Demonstrated laboratory skills in synthesis of radioactively labeled organic and organo-sulfur compounds including sugar derivaand organo-sunfur compounds including sugar derivatives; in carrying out microscale reactions involving handling of air/moisture-sensitive, pyrophoric, and radioactive materials; in modern chromatographic and analytic skills including TLC, HPLC, GC, GC-MS, Flash chromatography, ¹H-NMR, ¹³C-NMR, NOE difference, COSY, DEPT, FTIR, UV, ORD, and massspectroscopy. Propose novel compounds for inhibition of enzymes unique, but not confined to, parasitic organisms including *Plasmodium falciparum*. Proposals will be based on knowledge of enzyme mechanisms of action (particularly methyl thioribose kinase) and enzyme active site studies. Undertake organic synthesis of the proposed compounds utilizing expert knowledge of synthetic organic chemistry literature and skills of field. Duties include development of novel plant growth promoters including steroidal compounds, interaction with staff, and supervision of chemists. Base salary: \$50,000 per year. Hours: 8 a.m. to 5 p.m., Monday to Friday. Send résumés to: Job Order # 5550071, 875 Union Street, N.E., Room 201, Salem, OR 97311. An Equal Opportunity Employer.

RESEARCH ASSOCIATE

Purification and characterization of proteins relevant to cardiovascular control and the pathogenesis of hypertension, the HPLC-EC analysis of catecholamines and metabolites, and methods in molecular biology. Applicant must be able to work independently and to assume responsibility for the quality control of his or her own work. The job involves the analysis of large number of catecholamine samples from a variety of biological fluids, including blood plasma, cerebrospinal fluid, and pushpull perfusates. B.S. in analytical chemistry with 2 years of experience. Salary: \$22,680 annually. Send curriculum vitae to: Sandy Starnes, Alabama State Employment Service, 3440 Third Avenue South, Birmingham, AL 35222. JO# 626352

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Cognitive Neuroscience Individual Grants-in-Aid

The McDonnell-Pew Program in Cognitive **Neuroscience** is accepting applications for individual grants-in-aid to support research and training in cognitive neuroscience. Applications are sought for research projects and training projects of exceptional merit that are not currently fundable through other channels, and from investigators who are not at institutions already funded by an institutional grant from the program. Preference will be given to projects that require collaboration or interaction between at least two subfields of cognitive neuroscience. The goal is to encourage broad participation in the development of the field and to facilitate participation by investigators outside the major centers of cognitive neuroscience. Submissions will be reviewed by a program advisory board chaired by Professor George A. Miller of Princeton University. Deadlines for 1991 are February 1 and **August 1.** Support for research is limited to a maximum of \$30,000 per year for up to two years, with indirect costs included and not to exceed 10% of salaries and fringe benefits. These grants are not renewable for a third year. Postdoctoral stipends will be awarded at prevailing rates of the host institution for up to three years. Training grants to support Ph.D. thesis research of graduate students will not be funded. For further information contact: McDonnell-Pew Program in Cognitive Neuroscience, Green Hall 1-N-6, Princeton University, Princeton, NJ 08544-1010 (609-258-5014).

LIFE TECHNOLOGIES TRAINING CENTER

Life Technologies, Inc., the manufacturer of BRL brand molecular biology products and GIBCO brand cell culture products, has opened a facility designed for laboratory workshops. The following workshops are scheduled in 1991:

Topic **Dates**

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\$550 for graduate students

cDNA Libraries February 4-9 March 4-9

\$750 Tuition:

\$700 for graduate students

Transfection Techniques March 18-22

\$750 Tuition:

\$700 for graduate students

The Training Center is located in Germantown, Maryland, approximately 30 miles north of Washington, D.C., Convenient affordable housing is available next to the Center.

For additional information and registration, contact: Garlan Tinney, Workshop Coordinator, Life Technologies Training Center. 20271 Goldenrod Lane, Germantown, MD 20877.

Phone: (800) 828-6686 Fax: (301) 258-8212

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RESEARCH SCIENTIST. Qualified persons are needed to assist in the execution and management of the research programs within the Research Institute of Pharmaceutical Sciences in collaboration with the program coordinators. The Research Institute is particularly seeking applicants to support the Drug Discovery and Development Program. Qualifications: Ph.D., demonstrated record of research productivity in the area of biological evaluation of natural products. Salary range is \$22,000 to \$30,000 based on qualifications. Application deadline is open until filled. Starting date is 1 January 1991 or as soon thereafter as possible. Contact: Dr. James D. McChesney, Director, Research Institute of Pharmaceutical Sciences, University of Mississippi, 411 Faser Hall, University, MS 38677. Telephone: 601-232-7132. Minorities and women are encouraged to apply. The University of Mississippi is an Affirmative Action/Equal Employment Opportunity Employer.

HARVARD GENOME LABORATORY DNA RESEARCH SCIENTIST

Molecular biologists with 3 to 6 years of postdoctoral experience wanted to make a career in an ultra-rapid DNA sequencing project. The Harvard Genome Laboratory, a dedicated facility that will sequence microorganisms at a 4 Mb/year rate, seeks to fill a troubleshooting position and a quality conrol position. Send curriculum vitae and the names and addresses of three references to: Professor Walter Gilbert, The Biological Laboratories, 16 Divinity Avenue, Cambridge, MA 02138. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Participate in ongoing research on the regulatory mechanism in hemostasis; specifically, platelet physiology. Present data at seminars/conferences and publish data in scientific journals. Skills: radio-immune assay; HPLC; coagulation assays; cell culture techniques; PAGE; protein isolation and characterization; UV and visible spectroscopy; lipid isolation and identification; radioisotope labeling. Familiarity with computer programs (spreadsheet analysis, maintenance and updating of reference data base). Ph.D. (biochemistry) plus postdoctoral (2 years) plus research fellow (2 years). Salary: \$30,000 per year. Send two copies of your résumé to: The Massachusetts Department of Employment and Training, Special Programs, 19 Stainford Street, Boston, MA 02114 and refer to: Job Order #91130.

MOLECULAR BIOLOGIST/ NEUROPHARMACOLOGIST ALCOHOL RESEARCH

The Psychiatry Department and Alcohol Research Center at the University of North Carolina (UNC) are seeking applicants for a RESEARCH ASSOCIATE position in molecular neuropharmacology. We are seeking a candidate who has applied techniques of molecular genetics to investigate the mechanisms of alcohol action in the CNS. The ideal candidate will have a background in receptor/second messenger systems as well. A doctorate in molecular biology and several years of postdoctoral experience in neuroscience or pharmacology are required. Candidates should have published work in the molecular biology of alcoholism and demonstrated the ability to compete for research awards. Position is available 1 July 1991. Send curriculum vitae, descriptions of three references to: A. Leslie Morrow, Ph.D., Department of Psychiatry, CB 7175, University of North Carolina, Chapel Hill, NC 27599. Women and Affirmative Action/Equal Opportunity Employer.

COURSES AND TRAINING

MEDICAL UNIVERSITY OF SOUTH CAROLINA (MUSC) offers programs leading to Ph.D. and M.D./Ph.D. degrees in each of the basic biomedical sciences (anatomy, biochemistry, microbiology/immunology, pathology, pharmacology, physiology), biostatics/epidemiology/systems science, pharmaceutical sciences, and molecular and cellular biology/medicine. Stipends (\$10,000 to \$15,000) available to qualified students. Contact: College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425.

NASA PLANETARY BIOLOGY INTERNSHIPS. The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for awards of \$2000 plus travel to participate in research at NASA centers and collaborating institutions for approximately 8 weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomineralication, and origin and early evolution of life. Application deadline: 1 March 1991. For information/applications, contact: Greg Hinkle, Planetary Biology Intern Program, Department of Botany, University of Massachusetts, Amherst, MA 01003. An Equal Opportunity/Affirmative Action Institution.

ANALYTICAL AND QUANTITATIVE LIGHT MICROSCOPY IN BIOLOGY, MEDICINE, AND MATERIALS SCIENCE. 16 to 24 May 1991. This COURSE, designed for professional researchers, advanced graduate students, and industrial scientists and engineers, provides an in-depth examination of the theory of the microscope and application of video for exploring subtle interactions between light waves and the specimen. Limited to 22 students. Co-directors: Edward Salmon, University of North Carolina, Chapel Hill; Greenfield Sluder and David Wolf, Worcester Foundation for Experimental Biology. Application deadline: 15 March 1991. For further information and applications, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, ext. 216.

MEETINGS

3rd International Workshop on MOLECULAR AND CELLULAR BIOLOGY OF PLASMINO-GEN ACTIVATION, 8 to 13 May 1991, at Elsinore, Denmark. Organized by F. Blasi and K. Danø (Copenhagen), W. F. Mangel (Brookhaven), D. B. Rifkin (New York). Sponsored by the Danish Cancer Society. The workshop will focus on the various aspects and components of the plasminogen activation system, including structure, regulation, and role in physiological as well as pathological conditions. Participants will be selected solely on the basis of abstracts (one page) received by 4 January 1991. Abstracts and requests for further information: 3rd Plasminogen Activation Workshop, Finsen Laboratory, Strandboulevarden 49, DK-2100 Copenhagen Ø, Denmark. Telephone: 45-31-386633, ext. 5715/5616. FAX: 45-31-385450.

UV-B WORKSHOP

Workshop to define measurements requirements and network design for UV-B monitoring, Denver, Colorado, 23 to 25 January 1991. The workshop will address questions relating to the measurement and monitoring of UV-B radiation, including the development of a plan for a national scale monitoring network. Focus will be on the following topics:

- Identification of the spectrometric measurements of UV-B flux required to meet the needs of the various user communities, both for intensive research efforts and long-term monitoring.
 Definition of the instrument characteristics and speci-
- Definition of the instrument characteristics and specifications, including calibration, necessary to meet the measurement requirements.
- Development of a strategic plan for research and national scale network monitoring programs to meet these needs.

The workshop is sponsored by the Cooperative State Research Service of the U.S. Department of Agriculture and directed by J. H. Gibson, Natural Resource Ecology Laboratory, Colorado State University. Contact: Offico of Conference Services, Colorado State University, Fort Collins, CO 80523, telephone: 303-491-6222 or FAX: 303-491-0667, for further information.

ANNOUNCEMENTS

TWO MILLION DOLLARS AVAILABLE FOR BATTEN DISEASE

The Children's Brain Diseases Foundation is pleased to announce that two million dollars is available for Batten disease research. A "Request for Applications" concerning research on the neuronal ceroid lipofuscinoses (NCL or Batten disease) has just been issued. Send letter of intent by 1 February 1991 to: Karen Skinner, National Institute of Neurological Disorders and Stroke, Room 8C-04, Bethesda, MD 20892. Telephone: 301-496-5821. Application deadline: 1 March 1991. Please send copy to: Children's Brain Diseases Foundation, 350 Parnassus Avenue, Suite 900, San Francisco, CA 94117.

EOSINOPHILIA-MYALGIA SYNDROME

The Scientific Advisory Council of Showa Denko America (SDA), Inc., invites letters of intent from persons and institutions interested in conducting research on the Eosinophilia-Myalgia Syndrome. All aspects of the syndrome, from prevention through rehabilitation, are of interest. A letter of intent should identify the principal investigator, briefly describe the purpose of the research and the proposed methodology, and estimate the total time and costs involved. The Scientific Advisory Council will encourage the development of contract proposals for those projects that are of interest to SDA, Inc. Letters of intent may be sent to:

Arthur I. Holleb, M.D. Senior Medical Advisor Showa Denko America, Inc. 280 Park Avenue 27th Floor, West Building New York, NY 10017

SITUATIONS WANTED

BIOLOGIST, Ph.D. (1985). Six years of college teaching experience (biology, physiology, anatomy). Seeks relocation (teaching) within 100-mile radius of Baltimore, Maryland. **Box 147, SCIENCE.**

CELL BIOLOGIST/IMMUNOHISTOLOGIST, Ph.D. (1977). Extensive experience in light/electron microscopy application; management of EM facility. Excellent background in basic/clinical research. Seeks research/teaching/consulting, Eastern states. Box 148, SCIENCE.

M.D. (1985)/Ph.D. (1991). Experience in recombinant DNA techniques, protein purification/kinetics. Seeks postdoctoral training in California/northeastern states. Box 149, SCIENCE.

MEMBRANE PROTEIN BIOCHEMIST, Ph.D. Experience in calpains, membrane bound enzymes, HPLC, FPLC, IEF, SDS-PAGE, ELISA, Western blotting, autoradiography, and clotting assays. Seeks R&D position. Box 32, SCIENCE.

MICROCOMPUTER ENGINEER. Seeking design assignments for electromechanical instrument and test apparatus development or support your effort. 3306 Horseman Lane, Falls Church, VA 22042. Telephone: 703-533-1236.

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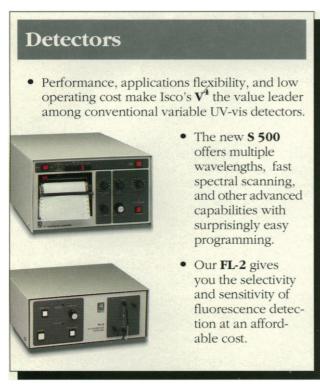
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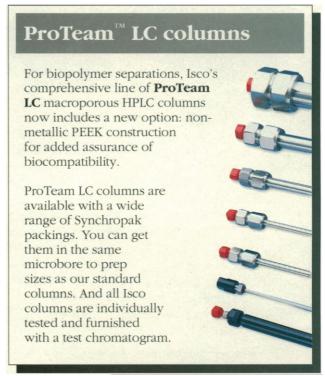
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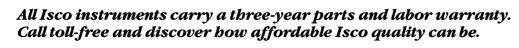
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