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Do you have bench chemistry experience? Application programming expertise? A computational chemistry background? Would you enjoy showing other industry professionals how to take advantage of this revolutionary new research tool? If so, you could find rich rewards in providing HyperChem-related consulting services.

The potential for consulting services in chemistry-related fields is big and getting bigger. Currently, for every dollar spent on software, another two to four dollars is spent on support and services. For an expert in chemistry applications, this represents a substantial opportunity. And with a software industry leader as your calling card, you'll be at the forefront of the bench revolution.

As with all such opportunities, the sooner you start, the sooner you can benefit. Why not call today for more information or to request an application packet? Who knows, a career in modeling could be in your future. 1-800-424-9737.
PLANT EVOLUTIONARY BIOLOGIST
OBERLIN COLLEGE

The Biology Department at Oberlin College invites applications for a full-time continuing faculty position effective July 1, 1993. The position which has been authorized for an initial term of four years will carry the rank of ASSISTANT PROFESSOR or higher.

The incumbent will teach advanced courses and a seminar in the areas of ecological, evolutionary and conservation biology. Teaching responsibilities will also include involvement in the introductory course. Academic advising and supervision of undergraduate research are required. The incumbent will be expected to maintain an active research program leading to publication. Preference will be given to candidates with teaching and postdoctoral experience.

Among the qualifications required for appointment is the Ph.D. degree, to be had or expected by July, 1993. Candidates must demonstrate interest and potential for excellence in undergraduate teaching.

To be assured of a letter of appointment, including curriculum vitae, at least three letters of recommendation, academic transcripts, reprints of recent publications, and a brief statement of research goals should be sent to: Chair, Search Committee, Biology Department, Oberlin College, Oberlin, OH 44074 (FAX 216-995-8908) by December 4, 1992.

ASSISTANT PROFESSOR

The Department of Chemistry has a faculty position available at the ASSISTANT PROFESSOR level. One area of scientific expertise in cell biology is currently being sought. The candidate should have experience in recombinant protein expression using baculovirus-insect cells. Please submit curriculum vitae, three letters of reference, a description of previous research experience, and future plans to: J. G. Reves, M.D., Professor and Chairman, Department of Anesthesiology, Box 360, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF CHICAGO
THE DEPARTMENT OF ECOLOGY AND EVOLUTION

ECOLOGIST: The Department of Ecology and Evolution at the University of Chicago seeks to hire an ecologist with interests in plant, animal or microbial biology for a faculty position at the ASSISTANT PROFESSOR level. A Ph.D. is required, with a background in ecology. Applicants are invited to submit a letter of application, curriculum vitae, and the names and addresses of at least three recommendations to: Search Committee, Department of Ecology and Evolution, The University of Chicago, 1101 East 57th Street, Chicago, IL 60637. An Affirmative Action/Employer.

This position has been authorized for a faculty position available for a research position in ecological and/or other areas of cell biology. The candidate will join a group of investigators in the Laboratory of Cell Biology at Children's Hospital that includes Professors Stephen Harrison, Don Wiley, and Fred Alt, and will interact with members of the Division of Infectious Diseases. Applicants will be selected on the basis of their potential for establishing an important and creative independent research program. Women and Minorities are especially encouraged to apply. Send curriculum vitae, a short summary of research interests, and three letters of recommendation to: Stephen C. Harrison, Ph.D., Howard Hughes Medical Institute and Laboratory of Cell Biology, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.

The Department of Psychology at the University of Wisconsin-Madison anticipates making one or more faculty appointments beginning August 1993. Among the areas are: Animal Behavior: ASSISTANT PROFESSOR with research interests in any area of animal behavior. Behavioral Neuroscience: ASSISTANT PROFESSOR with research interests in the areas of neural plasticity (including learning), neuropharmacology of behavior, and/or primate neurophysiology. The candidate should submit a letter of application, curriculum vitae, and arrange to have three letters of evaluation sent to: Search Committee (specify Animal Behavior or Behavioral Neuroscience), Department of Psychology, University of Wisconsin-Madison, 1202 West Johnson Street, Madison, WI 53706. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

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Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Clinical Neuroendocrinology**  
**Philip W. Gold, MD**

Two Senior Staff Fellow (assistant professor equivalent) positions are available to board-certified or board-eligible psychiatrists licensed to practice medicine in the US for research in clinical and/or molecular endocrinology. Clinical neuroendocrine studies focus on patients with stress-related psychiatric disorders, and opportunities exist to design and conduct molecular neuroendocrinology research projects to complement and inform ongoing clinical studies. Neuroendocrinology Branch (OE-19), NIMH, Building 10, Room 3S231.

**Cytogenetics**  
**Mirian C. Poirier, PhD**

The interaction of DNA with carcinogenic and chemotherapeutic chemicals is being studied. Previous experience is required in DNA biochemistry, DNA adduct quantitation by immunoassay, chemical-DNA localization (in cells, tissues and chromosomes) by immuno/histochemistry, analysis of chromosomal abnormalities, and cell culture. Laboratory of Cellular Carcinogenesis and Tumor Promotion (OE-19), NCI, Building 37, Room 3B12.

**Homologous Recombination**  
**R. Daniel Camerini-Otero, MD, PhD**

The molecular biology and biochemistry of homologous recombination is being studied in prokaryotes and eukaryotes. Studies include characterization of a novel triplex DNA, an intermediate in the homologous search process, and other triplex DNAs and the proteins that bind to them. New methods for gene mapping/cloning (e.g., RARE) and gene targeting in mammalian cells are also being developed. Genetics and Biochemistry Branch (OE-19), NIDDK, Building 10, Room 9D15.

**Molecular Biology of Lysosomes**  
**Richard L. Proia, PhD**

Gene targeting by homologous recombination is being used to generate mouse models of lysosomal storage diseases. The investigation of lysosomal structure and function, genetic regulation of lysosomal enzymes, and the effect of mutations in Tay-Sachs disease on mRNA processing and transport is also being studied. A background in biochemistry or molecular biology is preferred. Genetics and Biochemistry Branch (OE-19), NIDDK, Building 10, Room 9D15.

**Protein-Nucleic Acid Interactions**  
**Peggy Hsieh, PhD**

The role of DNA structure in homologous recombination and recombinational repair, and the proteins essential for these processes, are being investigated. Additional studies are investigating the role of recombination proteins in promoting branch migration through sequence heterology. A background in protein and/or nucleic acid biochemistry is preferred. Genetics and Biochemistry Branch (OE-19), NIDDK, Building 10, Room 9D15.

**Protein Sorting/Molecular Recognition**  
**Harris Bernstein, PhD**

The mechanisms whereby proteins are selectively targeted to the secretory pathway are being investigated. Projects focus on signal sequence recognition as a model for molecular recognition systems that display broad substrate specificity, the regulation of protein targeting by a new family of GTPases, and the function of recently discovered prokaryotic homologs of components of the eukaryotic sorting machinery. Genetics and Biochemistry Branch (OE-19), NIDDK, Building 10, Room 9D15.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,1,Even,1." When connected to NIH, type in ".vt100" at the connect message, ".F5E" at initial, and "QKHE91Z" at account.

Those interested in receiving information on other postdoctoral opportunities in NIH research laboratories, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
CHEMISTRY FACULTY POSITIONS AT THE OHIO STATE UNIVERSITY

The Department of Chemistry seeks to fill tenure-track faculty positions at the Assistant Professor level to begin September 1993. Particular areas of interest are analytical chemistry, biological chemistry, organic chemistry, and theoretical chemistry. Demonstrated excellence and strong commitments to innovative research and to teaching at both undergraduate and graduate levels are essential. Candidates should submit a curriculum vitae (including undergraduate transcripts, graduate transcripts and a list of publications), a statement of research and teaching interests, and three letters of recommendation to:

Dr. John S. Swenton, Chair
Faculty Search Committee
Department of Chemistry
120 W. 18th Avenue
Columbus, OH 43210-1173

Tel: 02-741-0611 0331-281-3851
FAX: 0331-281-6622

THE OHIO STATE UNIVERSITY

MOGAM Biotechnology Research Institute

KOREA

SENIOR RESEARCH SCIENTIST POSITIONS

are available immediately for Korean Scientists with a few years of postdoctoral experience in the field of Molecular and Cellular Immunology, Protein Chemistry and/or Organic Synthesis, Molecular Virology and Molecular Biology. It is expected that applicants will be able to work independently and be able to lead a research team. Salary will be in the range of $29,000-$40,000 per annum depending on age and experience. MOGAM Biotechnology Research Institute is the first private foundation approved by the Korean Ministry of Science and Technology in 1984. The institute is located in the suburbs of Seoul and has excellent facilities for modern research. As a leader in the research and development in the biotechnology field, MOGAM biotechnology Research Institute is principally engaged in research on viral vaccines, genetically engineered human pharmaceuticals and signal transduction. Please send applications, including a curriculum vitae, copies of publications, and two letters of reference to: MOGAM Biotechnology Research Institute, 341 Pajongri, Kooseungmyon, Yonginok, Kyunggido, 449-910, Korea or Seocho P.O. Box 47, Korea Cross Corporation, Seoul, Korea. (PROOF)

Tel: 02-741-0611 0331-281-3851
FAX: 0331-281-6622

POSITIONS OPEN

TENURE-TRACK BIOCHEMIST—CARLETON COLLEGE will have a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1993. We seek a person with a strong commitment to teaching and the ability to maintain an active research program in biochemistry. Teaching duties would normally include courses in the areas of biochemistry and organic chemistry. The Chemistry Department has a number of laboratories and equipment, and about 25 majors per year. Carleton is recognized for quality undergraduate teaching and student/faculty research. Applications should include a resume, three letters of reference, graduate and undergraduate transcripts, a two-page discussion of teaching philosophy, and a discussion of research interests. Completed applications will be considered beginning September 15th. Send material to: Professor Jerry Mohr, Department of Chemistry, Carleton College, Northfield, MN 55057. We particularly encourage applications from women and members of minority groups. EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

ASSISTANT PROFESSOR: Harvard Medical School, Department of Biological Chemistry and Molecular Pharmacology (BCMP). The Department of Biological Chemistry and Molecular Pharmacology Harvard Medical School invites applications for three tenure-track positions at the Assistant Professor level.

We seek individuals with strong experimental backgrounds in biochemistry, molecular biology and molecular pharmacology, and a commitment to excellence in research and teaching. We especially encourage applications from individuals with expertise in (1) membrane biology, receptor-ligand interactions and signal transduction processes; (2) molecular genetics, applications to gene regulation and/or development; (3) biophysical and/or bioorganic approaches to structure and mechanisms. Applicants should submit, by 1 November 1992, curriculum vitae, bibliography, statement of research plans and arrange for three letters of recommendation to be sent to: Professor Christopher T. Walsh, Chairman, BCMP, Harvard Medical School, 240 Longwood Avenue, Cl-213, Boston, MA 02115.

Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

BAYLOR UNIVERSITY—ORGANIC CHEMISTRY FACULTY POSITION. The Department of Chemistry invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level, beginning Fall 1993. A Ph.D. in chemistry is required and preference is desirable. The successful candidate will be expected to demonstrate excellence in teaching at the undergraduate and graduate levels and to establish an independent research program capable of attracting graduate students (M.S. and Ph.D.) and extramural funding. Applicants should submit a letter of application, curriculum vitae, including a list of publications, and a detailed description of past teaching interests and plans, and have three letters of recommendation sent to: Professor Stephen L. Gibson, Department of Chemistry, P.O. Box 97348, Baylor University, Waco, TX 76798. The deadline for receipt of all materials is October 23, 1992. Baylor is a Baptist university affiliated with the Baptist General Convention of Texas. As an Affirmative Action Employer, Baylor encourages minorities, women and persons with disabilities to apply.

HAVERFORD COLLEGE

The Molecular, Cellular and Developmental Biology Department seeks two tenure-track FACULTY MEMBERS at the Assistant, or possibly Associate, Professorial rank for the Fall of 1993. Successful applicants will teach undergraduates at all levels and maintain an active research program with extensive undergraduate involvement. Areas of research would be in the investigation of gene expression or in cell biology with strong expertise in macromolecular biochemistry. Electron microscopy is desirable for any position. The department supports innovative teaching in the applicant's area of interest. A Ph.D. and postdoctoral research experience are required. Please send curriculum vitae and research interests and three letters of recommendation by November 1, 1992 to: Dr. Judy Owen, Biology Search, Haverford College, Haverford, PA 19041. Haverford College is an Equal Opportunity/Affirmative Action Employer.
1993

PREDOCTORAL
FELLOWSHIPS IN
BIOLOGICAL SCIENCES

66 Fellowships will be awarded by the Howard Hughes Medical Institute for study toward a Ph.D. or Sc.D. degree in the biological sciences listed below. Awards, based on an international competition, focus on research directed to an understanding of basic biological processes and disease mechanisms. Fellowships may be held at any academic or research institution with appropriate degree programs.

- **Fellowship Terms**
  - Full-time study toward the Ph.D. or Sc.D.
  - Up to five years of support possible
  - $14,000 annual stipend
  - $12,700 annual cost-of-education allowance

- **Fields of Study**
  - Eligible fields:
    - biochemistry
    - biophysics
    - biostatistics
    - cell biology
    - developmental biology
    - epidemiology
    - genetics
    - immunology
    - mathematical biology
    - microbiology
    - molecular biology
    - pharmacology
    - physiology
    - structural biology
    - virology
    - neuroscience

- **Eligibility**
  - Beginning graduate study (prior study toward an M.P.H. or a medical degree does not rule out eligibility)
    - college seniors
    - first year graduate students
    - medical students and physicians (M.D., D.O., D.D.S., or D.V.M.) not past the first year of a Ph.D. or Sc.D. degree program
  - Not in a funded M.D./Ph.D. program
  - No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

- **Schedule**
  - Application deadline: November 6, 1992
  - Awards announced: early April 1993
  - Fellowships start: June 1993 - January 1994

For 1993 Program Announcements, Eligibility Guidelines, and Applications

Hughes Fellowship Program • The Fellowship Office
National Research Council • 2101 Constitution Avenue, N.W.
Washington, D.C. 20418 • United States of America
Telephone (202) 334-2872

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
University of Otago
Te Whare Wananga o Otago
New Zealand

LECTURER IN IMMUNOLOGY

Applications are invited for the position of Lecturer in Immunology in the Department of Microbiology. The main criterion for appointment is distinction in research; provided the applicant has good communication skills and some experience in teaching. Applicants should have a strong background in immunology and should have obtained a PhD by the time of appointment.

The Department supports active research programmes in Molecular Biology, Biotechnology, Clinical Microbiology and Immunology and is the host Department to the HRC Virus Research Unit and the Deer Research Laboratory. The Deer Research Laboratory is actively involved in immunological research into Tb diagnosis and prophylaxis, disease susceptibility and stress. There is active international collaboration with other groups specialising in tuberculosis and ruminant immunology. A full range of modern equipment dedicated to immunology is currently available within the Department. Specialised undergraduate courses in Immunology are given to Dental, Pharmacy and Biology students. Postgraduate Diploma, MSc and PhD programmes in Immunology are offered.

The successful applicant will be expected to take up this post on February 1, 1992.

Enquiries may be made to the Head of Department, Professor David T Jones, Facsimile (64) 3 479 8540 or telephone (64) 3 479 7735.

Salary: Lecturer $NZ37,440 - $NZ49,088 per annum.

Intending applicants should write for further particulars, available from the Registrar, Mr D W Gavran, P O Box 86, Dunedin, New Zealand, Facsimile (64) (3) 474 1607.

Applications quoting reference number A92/64 close with the Registrar on December 1992.

Equal opportunity in employment is University policy.
**DRUG METABOLISM AND PHARMACOKINETICS**

SmithKline Beecham, a worldwide leader in pharmaceutical research, is currently offering the following opportunities in the area of Drug Metabolism and Pharmacokinetics.

**Senior Scientist**

The selected candidate will study the pharmacokinetics, pharmacodynamics and disposition of therapeutic proteins in clinical and non-clinical investigations. Responsibilities include developing analytical methodologies, conducting basic research in areas of personal expertise, preparing internal reports, and publishing research results in scientific journals.

Qualified candidates will possess a Ph.D. in Protein Chemistry, Biochemistry, or a related field with an interest in drug metabolism and pharmacokinetics. Knowledge of biological, chemical and physical approaches for analyzing protein molecules in complex biological matrices and experience in functional, immunological and HPLC assays are required. The candidate will have demonstrated ability to integrate and apply multidisciplinary techniques. Experience in drug metabolism, animal studies, cell culture or flow cytometry would be advantageous. Good communication and interpersonal skills are necessary. Refer to Job #M066.

**Scientist**

The selected scientist will develop analytical techniques to quantitate protein and peptide drugs in biological matrices. Responsibilities include performing assays, and performing pharmacokinetic studies in animals. The candidate will design and implement studies to elucidate the disposition of protein and peptide drugs, write internal reports, and publish in scientific journals.

Qualified candidates will possess an M.S. in Chemistry, Biochemistry or a related field, and significant experience in an academic or industrial laboratory. Expertise in electrophoresis, immunoblotting, radiolabeling, and protein purification would be a plus. The ability to independently develop and perform quantitative analytical assays is required. Good communication skills and experience with animals would be advantageous. Refer to Job #M067.

SmithKline Beecham offers a competitive compensation and benefits package and a stimulating team environment. For confidential consideration, send your resume specifying Job # to: R&D Employment, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are Equal Opportunity Employer, M/F/D/V.

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**FACULTY OF HEALTH SCIENCES**

**CHAIR OF ANATOMY AND HISTOLOGY**

*(Re-advertised)*

A$77,900 pa

Ref 92159X. The School of Medicine is located within the Flinders Medical Centre and is adjacent to the University, 12 km south of Adelaide's city centre.

The new Professor who will head the Department of Anatomy and Histology, will have: a distinguished research record in an area of Biomedical Science; evidence of ability to teach at undergraduate level in at least one branch of the anatomical sciences (gross anatomy, neuroanatomy, histology, cell biology or embryology) and to supervise higher degree students; and ability to provide academic leadership. The Department has six academic, five technical and one permanent administrative staff members; three research fellows and research officers and eight research support staff. The Department has an established reputation for research excellence in the fields of autonomic nervous system, microvasculature, retinal and biostatistical research. All academic staff of the Department are involved in teaching and research, and many of the research interests cross traditional discipline boundaries, being carried out in conjunction with others both within and beyond the School of Medicine.

The Department has a major role in undergraduate medical teaching within the integrated teaching programmes of first, second and fourth years of a six year medical course. The Department maintains joint teaching with staff in other departments or schools of the University.

In addition to salary, a medically qualified appointee will also receive a clinical loading of up to A$13,484 pa and have limited right to private practice.

Enquiries to the Dean, Professor J Chalmers (phone [61] 8 204 5511, ext 4160). Selection criteria and conditions of appointment available from Human Resources Division (phone [61] 8 201 2300, fax [61] 8 201 3131).

Applications, addressing the selection criteria, quoting the reference number, and giving details of qualifications and experience together with the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged with the Manager, Human Resources, The Flinders University of South Australia, GPO Box 2100, Adelaide SA, Australia 5001 by 16 October 1992.

The University reserves the right not to make an appointment or to invite applications. Equal Opportunity is University Policy.

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**FLINDERS UNIVERSITY**

**ADELAIDE • AUSTRALIA**


ADVANCEMENT IN SCIENCE BEGINS AT BIO-RAD LABORATORIES

We are Bio-Rad Laboratories — a world leader in clinical diagnostics and one of the fastest growing companies in California. Continued growth has created several opportunities in major U.S. cities. We are seeking talented scientists who wish to begin their careers in industry.

As a Diagnostics Sales Representative, you will serve in a highly visible position with excellent opportunities for growth and advancement. Career paths include sales and product management leading to general management.

We require a BS or equivalent in a Life Science (MBA, MS or PhD a plus). Successful candidates must be willing to relocate.

We offer a competitive compensation package. Please send your resume to: Bio-Rad Laboratories, Dept. D375, 4000 Alfred Nobel Dr., Hercules, CA 94547. EOE M/F/D/V.

BIO-RAD

Bio-Rad Laboratories

POSITIONS OPEN

COLBY COLLEGE

is seeking an Animal Physiologist to fill a tenure-track position as ASSISTANT PROFESSOR of Biology to begin September, 1993. Women candidates will be considered for a Clare Boothe Luce Assistant Professorship, which provides dedicated annual research funds, and salaries for undergraduate research assistants. Candidates should have a Ph.D. and a strong commitment to undergraduate education. Applicants should have broad training in animal physiology. A research interest in invertebrate, fish, amphibian, or reptile biology is preferred. Teaching will include comparative physiology, a course in the candidate’s discipline, a course for non-biology majors in alternate years and pre-medicine in the introductory course in some years. An active research program, including supervision of undergraduate research, will be expected. Familiarity with liberal arts college teaching experience, and/or postdoctoral training are desirable.

Please submit a letter of application, statement of teaching and research interests, curriculum vitae, reprints or publications, undergraduate and graduate transcripts, and three letters of recommendation to: Professor David H. Firmage, Chair, Department of Biology, Colby College, Waterville, ME 04901. Application review will begin November 2, 1992. Colby College is an Affirmative Action/Equal Opportunity Employer, and encourages applications from minorities and women.

ASSISTANT/ASSOCIATE PROFESSOR

Plant Molecular Genetics

University of Connecticut

The Department of Molecular and Cell Biology invites applications for an assistant or associate professor position with a target starting date of September 1, 1993. The successful candidate should have significant postdoctoral experience, and will be expected to establish a strong, extramurally funded research program in any area of higher plant molecular genetics. Additionally, the successful candidate will be expected to participate in graduate and in the teaching program of the Department. Applications should submit curriculum vitae, reprints or preprints of major publications, a statement summarizing research accomplishments and future plans, and have at least three letters of recommendation sent to: Dr. Arthur Chevnick, Chair, Plant Molecular Genetics Search Committee, University of Connecticut, Department of Molecular and Cell Biology, U-131, 354 Mansfield Road, Storrs, CT 06269–2131. The review of applications will begin on October 1, 1992 and continue until the position is filled. The University of Connecticut encourages minorities, women and people with disabilities to apply for this position. (Search #3A27)

FACULTY POSITIONS IN PSYCHIATRY

Two tenure-track faculty positions at the ASSISTANT/ASSOCIATE or FULL PROFESSOR level are available in the Department of Psychiatry at the University of Wisconsin—Madison. Individuals who have a strong interest in independent research in the areas of brain imaging, psychopharmacology, psychogenetics or molecular biology involving either basic or clinical research are encouraged to apply. Individuals will be joining a team of scientists collaboratively working to understand the neurobiological basis of neuropsychiatric illnesses. Competitive salary and fringe benefits available. Send curriculum vitae, including Dr. Ned R. Kassel, Department of Psychiatry, 600 Highland Avenue, Madison, WI 53792–2475 by October 31, 1992. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

NANOTECHNOLOGY

Reprint

Engineering a Small World: From Atomic Manipulation to Microfabrication

This 42-page special section, reprinted from the 29 November issue of SCIENCE, is your entry to the expanding world of small-scale engineering. It’s a field that spans microelectronics, materials science, chemistry, molecular biology, and microscopy. In this special section, ten illustrated articles by research leaders and by science journalists present the full scope of this small world.

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Positions Open

Professor or Assistant Professor

Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Duke University Medical Center. Applications invited for a position at the level of Assistant Professor in the Section of Cell Growth, Regulation and Oncogenesis. Research within the Section is focused on the genes and biochemical pathways that regulate cell growth and the molecular analysis of the disruption of such controls in cancer cells. Investigators studying the molecular level on signal transduction, oncogenes/anti-oncogenes, apoptosis and tumor biology are especially encouraged to apply. Applicants seeking a tenured professorship must have distinguished records of accomplishments and be internationally recognized as a leader in their field. Successful candidates will be appointed as Assistant or Associate Professor of Cell Growth and Regulation.

Assistant or Associate Professor Experimental Pathology

The Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, invites applications for a tenure-track position at the assistant or associate professor level. The position will be in experimental pathology and will seek candidates in the following areas: cardiovascular biology, endothelial cell biology, coagulation/dil-thesis, immunology, and tumor biology. The successful candidate will be expected to establish and maintain a vigorous and funded research program and participate in teaching at the graduate level. Candidates should have a M.D., Ph.D. or equivalent and postdoctoral research experience in an area related to their planned research program.

Applicants should submit curriculum vitae, a concise description of research interests and goals, and the name, address and telephone number of at least three references to: Dr. Lawrence S. DeBault, Chairman of Search Committee, Department of Pathology, P.O. Box 26901, Oklahoma City, OK 73190. Deadline for receipt of applications is October 1, 1992. The University of Oklahoma is an Affirmative Action/EQUAL OPPORTUNITY EMPLOYER.

Professor—Analytical Chemistry

Department of Chemistry

The University of British Columbia

The Department of Chemistry, University of British Columbia, invites applications for a tenure-track position at the assistant level. The successful candidate will be expected to teach introductory chemistry courses at the undergraduate level and graduate level and to develop a vigorous and creative research program. The salary will be commensurate with education and experience.

The University of British Columbia encourages qualified women and minority applicants. The position is subject to final budgetary approval and, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. Applications should consist of curriculum vitae, list of publications, summary of research interests, a research proposal, and the names and addresses of at least three references. The candidate should arrange for the complete application and a letter of reference to be sent, by the closing date of December 1, 1992 directly to: Professor M. Blades, Chairperson, Future Appointment Committee, Department of Chemistry, University of British Columbia, 2036 Main Mall, Vancouver, British Columbia, CANADA V6T 1Z1.

National Institutes of Health (NIH)

Associate Director for Communications

The National Institutes of Health (NIH), Public Health Service, Department of Health and Human Services, invites nominations and applications for this Senior Executive Service (SES) position, with a current salary range of $60,000 to $112,000 per annum. The Associate Director carries out the primary information mission of NIH through a comprehensive national public affairs program providing information to health care providers, researchers, and the public. The Associate Director will develop agency-wide plans for communications that display NIH-sponsored research results and their impact. The Associate Director will also develop and implement communications programs in support of appropriate elements of NIH’s strategic plan. The Associate Director manages the Office of Communications and serves as the Freedom of Information Act Officer for NIH.

The complete Civil Service vacancy announcement which lists the managerial and technical qualifications required, the forms required for application to the SES position, and an Application for Federal Employment (SF-171) may be requested by letter or by telephoning (301) 496-2400.

Complete applications must be received no later than September 30, 1992, at the following address:

National Institutes of Health
Office of the Director
Personnel Office
ATTN: D. Kraut
Building 31, Room 1C-27
9000 Rockville Pike
Bethesda, Maryland 20892

All qualified candidates will receive consideration without regard to race, color, sex, age, national origin, political affiliation, marital status, union membership, or any nondisqualifying handicapping condition.

NIH is an Equal Opportunity Employer

Biophysicist/ Skin Research

Think Beyond The Conventional

An ability to think across traditional scientific boundaries can lead to breakthrough discovery. Here at Unilever Research U.S., one of four international research laboratories for one of the world’s leading manufacturers of consumer products, foods and value-added chemicals, you’ll find the challenges and rewards you need to succeed.

Using the resources and long-term commitment only a major multinational company can provide, we are taking a vastly different approach to conventional skin research. By bringing together top scientists from a wide range of disciplines, we are creating an environment where individuals can excel in their chosen areas, as well as broaden their knowledge through continuous interactions.

Currently we are seeking an individual with a PhD in biophysics or physical chemistry to explore the effects of surfacants and environmental factors on the biophysical state of human skin. A demonstrated record of carrying out research in biological systems that prove the relationship of structure to function is also essential. 0-5 years’ postdoctoral experience and familiarity with bioreorganic chemistry and surfactant physical chemistry are desirable. Excellent communications and interpersonal skills are also required.

If you would like to join us in developing the science and technology that will drive our business into the next century, send your C.V. to: James R. Coni, Human Resources, Dept. 5911, Unilever Research U.S., 45 River Road, Edgewater, NJ 07020. Equal Opportunity Employer.

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positions open

professor, associate professor

vascular cell biologist

the section of surgical biology, department of surgery, university of arizona health sciences center invites applications for a full-time faculty, tenure-track position. the position is available immediately. the department of surgery, university of arizona, offers an m.d. and ph.d. degree and provides evidence of a strong research program in vascular biology. applicants with an interest in the general area of basic or clinical research, with a focus on vascular biology, are encouraged to apply. the successful candidate will join a multidisciplinary team of cardiovascular biologists and clinicians. rank and salary will be commensurate with qualifications. submit curriculum vitae and three letters of reference to: stuart k. williams, ph.d., chief, section of surgical biology, university of arizona health sciences center, college of medicine, tucson, az 85724. review begins june 1, 1992, and remains open until filled. the university of arizona is an affirmative action/equal opportunity employer. women and minorities are encouraged to apply.

research associate or assistant professor

research associate or assistant professor position available for two years starting in winter 1992 for ph.d. with experience in molecular biology. project involves implementation of a new, hybridization assay for the detection of hiv-1 rna in human cells using a novel ribosome-mediated ligation reaction followed by rna amplification and hybridization. work will be done under the guidance of dr. howard hughes medical institute, the rockefeller foundation and the national university of mexico. research facilities include state-of-the-art instrumentation in molecular biology, cell biology, genetics, and biochemistry. the holder of this position will be expected to acquire a close understanding of the discipline. in addition the candidate must have a ph.d. or equivalent specialized experience directly related to molecular biology.

closing date is october 13, 1992. for information on the position, contact: dr. sally rokey, national research council staff at the university of illinois, champaign urbana, illinois 61801. university of illinois is an affirmative action/equal opportunity employer.

vice chancellor for research

dean of the graduate college

the university of illinois

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john w. chandler, m.d.
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1855 west taylor street

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uic is an affirmative action/equal opportunity employer.

nmr electronics faculty position:

expert in rf electronics and coil design and construction to be appointed to a new faculty position in experimental biology and chemical biology. the successful applicant will have a ph.d. in chemistry or physics with a ph.d. in chemistry or physics with emphasis in chemistry or physics, or in electrical engineering. the candidate must have a strong record of excellence in research and graduate education throughout the campus. the candidate must have the capacity to serve as a catalyst for cross-disciplinary interactions through the creation of incentives for multi- and interdisciplinary research. the search will remain open until the position is filled. review of applications will continue until september 1, 1992. nominations/applicant's names and curriculum vitae should be sent to:

d. glickson, director of nmr research, department of radiology, johns hopkins school of medicine, baltimore, md 21205. nmr is an affirmative action/equal opportunity employer.
"MINORITIES IN SCIENCE... A SEARCH FOR SOLUTIONS"

13 November Issue
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In a first-time cover story, the 13 November issue of Science explores the complex problems and obstacles facing minorities as they work and compete in the scientific community.

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Space Reservation Deadline: Tuesday, October 27
NRC - Canada’s top R&D organization – helps its industry partners become stronger global competitors. Currently, NRC’s Plant Biotechnology Institute is looking for those rare people who can help further our record of excellence.

**Research Officer (Saskatoon, Saskatchewan)**

The Plant Biotechnology Institute of the National Research Council of Canada in Saskatoon has a continuing staff position for a Research Officer. The scientist will work in the legume biotechnology group on the development and use of transgenic plants. Major duties will be the planning, managing and reporting of independent research within the context of an integrated group project, but participation in overall project planning and promoting interaction between the project and external partners is expected. Duties also include supervision and evaluation of laboratory personnel.

Applicants must have a Ph.D. in plant biotechnology or related discipline, with emphasis on plant molecular genetics. A good understanding of molecular biology, biochemistry and genetics in relation to crop improvement and a strong record of publication are expected. Experience in production of transgenic plants and in molecular identification of plant genes or regulation of gene expression in plants is required. The position requires high levels of scientific creativity and judgment, the ability to function both individually and as a team member or leader and good skills in verbal and written communication in English.

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Apply in writing, before September 30, 1992, giving complete details of education and experience to: The Recruitment and Staffing Section, National Research Council of Canada, Ottawa, Ontario, K1A 0R6. In reply, please quote PB-91-16SCI.

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**THE MAX-PLANCK-GESELLSCHAFT** invites applications for the position of a

**RESEARCH GROUP LEADER**

from young scientists who have achieved a degree of international recognition in their field, preferably in Cell Biology, Developmental Biology or Neurobiology.

The successful applicant will be expected to conduct a vigourous, original and independent research programme at the Friedrich-Miescher Laboratory in Tübingen.

The position is for 5 years, carries a salary of about 90,000 DM p.a. (C3 scale of the Bundes-Besoldungsgesetz) and is roughly equivalent to an Assistant Professorship (US) or University Lectureship (UK). There is no teaching commitment. The group will have modern laboratory facilities, operating expenses, and funding for scientific and technical co-workers.

Applications, including a tabular curriculum vitae, list of publications, and a description of major scientific achievements and future research plans, should be submitted until October 31, 1992, to: Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. -Generalverwaltung- Postfach 674 D-8000 München 1.

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**PRESS RELEASE**

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Researching new biochemical markers of disease, this position will involve investigation of biochemical mechanisms of physiological disorders and assay methods development of new markers, reagent development, and assay of clinical samples. We require a PhD including at least 3 years biochemical research experience relating to original medical diseases. Immunopositive, molecular biology, and protein biochemistry experience is required. Reply to Ann Ribeens, Job # 53795.

MOLECULAR BIOLOGY
Research Associate

A newly formed department of Molecular Diagnostics is seeking BS or MS level candidates to fill a position in the Protein Engineering Laboratory. The main goal of the research program is to develop methods to design and construct binding surfaces on proteins, and to apply engineered proteins in diagnostics. The successful candidate will have 1 year(s) of laboratory experience and work background in several of these techniques: gene cloning, expression, site-directed mutagenesis, PCR, DNA sequencing, construction of gene libraries, gel electrophoresis, protein chromatography, HPLC. Reply to Ann Ribeens, Job # WM.

Pharmaceutical Products Division

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As part of the Protein Modeling Group within our Department of Structural Biology, you will work closely with all therapeutic areas relating to drug discovery. We require an innovative-minded professional with a PhD and significant experience solving drug design problems. Familiarity with the full range of molecular modeling tools for the modeling and simulation of peptides and proteins is essential. Background correlating molecular structure and function is desired. Reply to Patrick Handy, Job # 48644.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located approximately 30 miles north of Chicago. For confidential consideration, please forward a resume (indicating appropriate reply name and Job #) with salary history to: Corporate Staffing, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

Worcester Foundation for Experimental Biology

FACULTY POSITIONS

CELL BIOLOGY, NEUROBIOLOGY & REPRODUCTIVE BIOLOGY

Positions available at the Worcester Foundation for Experimental Biology at both junior and senior faculty levels. We are seeking investigators whose expertise will fortify or complement our existing strengths. The areas in which we seek applicants include:

- Tumor Suppressor
- Genes/Oncogenes
- Cell Cycle/Growth Control
- Cell Mobility
- Gene Expression
- Development/Differentiation
- Cell-Cell Interactions
- Receptors/Signal Transduction
- The Synapse/Ion Channels

We are particularly interested in individuals employing molecular and genetic approaches, although overall scientific excellence and promise will be the primary criteria.

Faculty appointments at the Worcester Foundation carry institute-backed salary guarantees and liberal start-up packages for personnel, equipment and operating costs. One or more of these appointments may include membership in the Foundation's NCI-designated Cancer Center.

Submit a detailed CV, a one- to two-page summary of current and near-term research, and the names of at least three scientists who have a knowledgeable opinion of your research. We intend to fill the first of these positions in early 1993.

Send your application to: Faculty Search Committee, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Ave., Shrewsbury, Massachusetts 01545.

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National Institute of Mental Health

The Human Brain Project:
Integrating Enabling Technologies with Neuroscience Research

Satellite Symposium
to be Held in Association with the
Annual Meeting of the Society for Neuroscience
Sunday, October 25, 1992
Anaheim, California

The Human Brain Project is a federally-funded initiative which will facilitate and coordinate the development of tools aimed at integrating neuroscience information across disciplines and across geographic locations. The principal aim of this symposium is to inform the general neuroscience community about the Human Brain Project, and about the opportunities afforded neuroscience by technology.

Session Topics and Invited Speakers

Goals and Models of the Human Brain Project
M. Huerta (Moderator), D. Purpura, C. Rosse, B. Schatz

Contemporary Tools for Neuroscience
L. Sokoloff (Moderator), F. Bloom, A. Evans, P. Fox
J. Nissenson, J. Schwaber, R. Thatcher, A. Toga, D. Woodward

Opportunities for the Human Brain Project
S. Koslow (Moderator), J. Bower, M. Gazzaniga
P. Goldman-Rakic, T. Hokfelt

For registration information: call (703) 821-8955, Extension 8515, and leave your name and fax number. Registration is free, but limited.

For further information regarding symposium content: Michael F. Huerta, Ph.D., Division of Basic Brain and Behavioral Sciences, NIMH, Room 11-105, 5600 Fishers Ln., Rockville, MD 20857. Phone: (301) 443-3948. Fax: (301) 443-4822. Internet: HMI@NIHCU. Internet: HMI@CU.NIH.GOV. Also see Society for Neuroscience Program.
POSTDOCTORAL POSITIONS

Three postdoctoral positions are available immediately in the Department of Molecular Biology at the University of Wisconsin. The areas of research include: (i) yeast genetics, especially regulation of protein translation and characterization of mutations affecting the coordination of mitochondrial and cytoplasmic metabolic activities (contact Dr. Peter Thornton), (ii) protein toxins involving identification of neutralizing antibody binding sites in presynaptic neurotoxins and generation of toxin-neutralizing antibodies raised against synthetic peptides (contact Dr. Ivan Kaiser), and (iii) membrane protein receptors involving identification, cloning and characterization of insect receptors that specifically bind toxins of Bacillus thuringiensis (contact Dr. Lee Bula). Experience in yeast genetics, protein toxins and membrane receptors for the three areas, respectively, is desirable but not essential.

However, experience in molecular biological techniques and good communication skills are essential for all three positions. Please send curriculum vitae, summary of previous research and the names and addresses of at least three references to: Department of Molecular Biology, P.O. Box 3944, University Station, Laramie, WY 82071-3944.


A POSTDOCTORAL POSITION is available immediately for studies of membrane-associated transport systems in anaerobic ruminal bacteria. Studies will focus on mechanisms for pentose transport. Relevant experience, biochemistry, microbiology or molecular biology or a similar discipline are required. Applicants should submit a resume with three references to: Dr. Herbert Streb, Department of Animal Sciences, 212 W. P. Garrigus Building, University of Kentucky, Lexington, KY 40546-0215; telephone (606) 257-7554. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSISTANT for a southwestern Ohio University. Research on eye diseases causing impaired vision and blinding, in particular on genes regulating photoreceptor cell death and developmental processes in eye tissue. Research directed toward new therapeutic and preventive treatment in eye disease. Teaching and supervising medical students and ophthalmology residents. Salary $27,500-$32,000. Send curriculum vitae, three references, and supporting data to: Dr. Ross A. Virginia, Environmental Studies Program, Dartmouth College, Hanover, NH 03755-3560, Telephone: 603-646-1456; or Dr. James F. Reynolds, Department of Botany, Duke University, Durham, NC 27708-0340, Telephone: 919-684-6233. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS DESERT ECOSYSTEMS RESEARCH

Available immediately on an NSF project examining the response of Chihuahuan Desert shrublands to environmen- tial change. Positions include periods of field work in New Mexico. Position #1: Dartmouth College. Plant-soil interactions and nutrient cycling. Experience in soil chemistry and stable isotope techniques. Position #2: Duke University. Whole plant response to environmental stress and its effect on ecosystem dynamics. Strong quantitative skills and previous modeling experience desired. To apply send curriculum vitae, publications, and names of three references to: Dr. Ross A. Virginia, Environmental Studies Program, Dartmouth College, Hanover, NH 03755-3560, Telephone: 603-646-1456; or Dr. James F. Reynolds, Department of Botany, Duke University, Durham, NC 27708-0340, Telephone: 919-684-6233. An Equal Opportunity/Affirmative Action Employer.

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Located at the end of the Classified Section in this issue of Science.
BIOPHARMACEUTICS/DRUG DELIVERY

The Pharmaceutical Research Department of Merck Research Laboratories in West Point, PA has career opportunities for two BS/MS level scientists. The successful candidates will be part of a team conducting in vivo and in vitro studies to support development of new compounds from Basic Research.

**Biopharmaceutics and Drug Delivery** – Development and execution of analytical methods for determination of drug levels in biological fluids and conduct of physical/chemical testing of factors affecting drug absorption will be an integral part of the position. Hands-on experience in the design and conduct of in vivo studies to obtain specimens for analysis, HPLC and radiotracer techniques and strong training in the physical sciences is required. This interdisciplinary position requires a BS/MS degree in chemistry, biochemistry, pharmacuetics, biology or the equivalent as well as 2-5 years of relevant experience. Excellent written and oral communications skills are essential.

**Biopharmaceutics** – Current experience in conducting preclinical in vivo studies, including acute surgical preparation, collection of tissues for analysis and use of radioisotopes, is required. The successful candidate will have formal training in physiology/biochemistry, with emphasis on gastrointestinal physiology and absorption processes. Experience in performing HPLC analysis is preferred. A BS or MS degree in biology, physiology, biopharmaceutics, biochemistry or the equivalent and 2-5 years of relevant experience are required. Excellent written and oral communication skills are essential.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae and cover letter to: Personnel Manager, AD #C-21, MRL Human Resources, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AA/VH/Employer.

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**5th International Workshop on Chromosomes in Solid Tumors**

January 10-12, 1993
Tucson, Arizona

Jeffrey M. Trent, Ph.D.
Conference Chairman
The University of Michigan

Invited Speakers: R. Berger, M.D., E. Blackburn, Ph.D., L. Bolund, Ph.D., G. Brodeur, M.D., F. Collins, M.D., Ph.D., J. Gray, Ph.D., W. Hittelman, Ph.D., N. Mandahl, Ph.D., P. Melzer, M.D., Ph.D., J. Neel, M.D., Ph.D., D. Pinkle, Ph.D., J. Rowley, M.D., G. Stark, M.D., T. Tisty, Ph.D., B. Trask, Ph.D., H. Willard, Ph.D.

This Workshop will be divided into a series of invited and competitively selected presentations as well as extended time for poster sessions. An optional mini-symposium on fluorescent in situ hybridization (FISH) will immediately follow the workshop.

Requests for abstract forms and correspondence regarding the workshop should be addressed to: Conference Coordinator, Arizona Cancer Center, 1515 North Campbell Avenue, Tucson, Arizona 85724 (602) 626-2276.

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**Research Scientist II/Senior Research Associate**

This individual will aid in quantitative and qualitative mass spectrometric analysis of project compounds and aid in mass spectrometric method development in drug development research. Individual will perform sample analysis, develop methods in research and mass spectrometric-related projects, and be responsible for routine instrument maintenance. The position will be filled at the Research Scientist II or Senior Research Associate level.

Research Scientist II: Must have a four-year college curriculum with a major concentration in Chemistry plus four years of experience in mass spectrometry or relevant experience OR a Master's degree in Chemistry/Biological Chemistry plus two years of experience in mass spectrometry or relevant experience OR a Ph.D. in Chemistry/Biochemistry with experience in mass spectrometry.

Senior Research Associate: Must have a four-year college curriculum with a major concentration in Chemistry plus six years of experience in mass spectrometry or relevant experience OR a Master's degree in Chemistry/Biological Chemistry plus four years of experience in mass spectrometry or relevant experience OR a Ph.D. in Chemistry/Biochemistry plus one year of experience in mass spectrometry or relevant experience.

Other factors to be considered include knowledge of drug metabolism, mass spectrometry, method development and organic chemistry. Candidates selected for interview will take an on-site writing assessment.

Burroughs Wellcome Co. offer a stimulating and challenging work environment, with one of the best compensation and benefits packages in the industry, including comprehensive health and dental plans, life and disability coverage, tuition reimbursement, relocation benefits, pension and investment savings plans, fitness facilities, and others. You will also enjoy the outstanding variety of cultural, educational and recreational advantages that come with living and working in the Research Triangle Park area, one of the most desirable and fastest-growing regions of the country.

Please send your resume, indicating position #64104-20 in your cover letter, by September 30, 1992 to: Burroughs Wellcome Co., Recruiting and Staffing, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 248-8347.

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**Wellcome**

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Chief, Geosciences Laboratory
Office of Ocean and Earth Sciences
National Ocean Service
Rockville, Maryland

The National Oceanic and Atmospheric Administration seeks to fill this position in the Senior Executive Service/ES-1301 (Pay range: $90,000 to $112,100 based on qualifications). This position requires a forward-looking manager experienced in ocean and earth sciences to direct interdisciplinary applied research programs in solid earth and crustal dynamics, earth orientation, marine and terrestrial gravity, satellite remote sensing, and advanced geodetic measurement techniques. Applicants are expected to have extensive experience with the national and international ocean and earth science research communities. Candidates must have demonstrated thorough knowledge of the interdisciplinary aspects of contemporary earth science and be able to provide leadership in the application of geodetic, geophysical, and oceanographic methods to problems of climate and global change.

The vacancy announcement for this position (NOAA 92-11DS) opens on August 19, 1992 and closes on September 23, 1992. For further information and to receive the position description, supplemental qualifications questionnaire, and other instructions, contact Debbie Scholl or Tito Santiago at the NOAA Personnel Office, (301) 713-0530—National Oceanic and Atmospheric Administration, Personnel Division—OA2/SSMC1/Room 3102, 1335 East West Highway, Silver Spring, Maryland 20910. NOAA is an equal opportunity employer.

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University of Osteopathic Medicine and Health Sciences
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Des Moines, IA 50312-4198
(515) 271-1450 or 271-1814

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Children are our greatest hope. Their education is our greatest concern.

At the American Association for the Advancement of Science we're investing in our future with Project 2061.

This national program, sponsored by the AAAS, is designed as a blueprint for science education. Project 2061 is based on the premise that students learn best when connections are made between fundamental scientific theories and real-life applications. From rural Georgia to San Francisco; from Philadelphia to suburban Wisconsin, the AAAS is working with teachers to design the science curriculum of the future.

Although just a beginning, AAAS and its members are not only dedicated to the advancement of science today, but through Project 2061 and other educational programs, to the continual advancement of science in years to come.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
HUBBLE POSTDOCTORAL FELLOWSHIPS

The Space Telescope Science Institute announces the continuation of the Hubble Fellowship Program in cooperation with astronomical institutions throughout the United States. The main objective of the Program is to provide recent postdoctoral scientists of unusual promise and ability opportunities for research on problems, largely of their own choosing, that are related to the Hubble Space Telescope science and compatible with the interests of the host institutions. The program is open to scientists of any nationality who have earned their doctorates after January 1, 1990, in astronomy, physics, or related disciplines.

The duration of the fellowship is for a total of three years, which includes an initial appointment of two years and an extension to a third year, contingent on a positive mid-term review. Contingent on funding from NASA, up to 15 new Hubble Fellows will be supported this year by grants to United States institutions.

The Announcement of Opportunity, including the application instruction, may be obtained from the address listed below. The application deadline is November 20, 1992. The new Hubble Fellow appointments are expected to begin on September 1, 1993. Minorities and women are strongly encouraged to apply. EEO/AA/M/F/D/V.

Hubble Postdoctoral Fellowships
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive • Baltimore, MD 21218
SPAN: 5594-HFELLOWS
BITNET: HFELLOWS@STSCILBITNET
INTERNET: HFELLOWS@STSCILEDU
Attention: Hubble Fellowship Program Office

STUDY DIRECTORS

The Institute of Medicine (IOM) is seeking three study directors for new projects on behavioral, substance abuse, and mental health research related to (1) AIDS and HIV infection, (2) psychosocial interventions, and (3) nicotine dependence. Study director for AIDS and HIV infection research will conduct a 9-18 month study reviewing research portfolios ranging from basic molecular biology to health services research. Study director for psychosocial interventions research will conduct an 18-month study assessing clinical studies of psychosocial interventions and developing research strategy for integration of knowledge from several fields ranging from molecular neuroscience to social psychology. Study director for prevention of nicotine dependence in children and adolescents will conduct an 18-month study reviewing the current state of knowledge about the biology of dependence and the social and behavioral factors that contribute to the initiation of smoking among children and adolescents. Duties for all positions include technical, financial, and administrative management; supervision of staff; development of study plan; appointment of study committee; research and analysis; and report preparation.

Positions require MD, PhD, MSW, or equivalent in a related field (biological, behavioral, or social science research for AIDS and HIV infection position; clinical medicine, psychology, health policy, or social psychology for psychosocial intervention position; psychology, neurobiology, social science for nicotine dependence position); at least 4 years experience in research, service delivery, or (preferably) public policy analysis. Demonstrated written and oral communication skills; ability to manage committees and budgets; skills in staff supervision and policy analysis; ability to meet deadlines; and careful fiscal management. Knowledge of the organization and research agenda of institutes and offices of the former ADAMHA is desirable for AIDS study. Expertise in relevant clinical and behavioral research desired for both AIDS and psychosocial interventions studies. Familiarity with tobacco policy research desirable for nicotine study.

The IOM offers competitive salaries and exceptional benefits package. Please send resume in confidence to: IOM, FO-3020-RCD, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. EOE.

NATIONAL RESEARCH COUNCIL

SCIENTIST/GROUP LEADER

Upstate Biotechnology, Inc., a rapidly growing supplier of quality products for biological research, currently has an opening for a Scientist to serve as Group Leader in Cell Biology. The Group Leader will supervise 2–4 technicians in the production and testing of growth factors, signal transduction reagents and antibodies. There will also be an opportunity to be involved in new product development.

The position requires a Ph.D. in Cell Biology and experience or familiarity with cell biology techniques including cell culture, immunochemistry, antibody production in cell culture and protein purification.

UBI is located in beautiful Lake Placid, New York, a year-round center for outdoor recreation in the heart of the Adirondack Mountains. UBI's affiliation with the W. Alton Jones Cell Science Center, also located in Lake Placid, provides a stimulating scientific environment. UBI offers a competitive salary, moving expenses and excellent benefits. A position with UBI will provide the successful applicant with a diversity of experiences including an excellent introduction to industry in a relaxed, yet challenging, environment.

Send curriculum vitae and list of references to:

Dr. Robert E. Wagner, Jr.
Upstate Biotechnology, Inc.
89 Saranac Avenue
Lake Placid, New York 12946.

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IMMUNOLOGIST

We're seeking a recent Ph.D. for immunoassay development and enzyme/antibody conjugation (Urease). Direct your correspondence to: Diane Kurtz, Manager-Administration.

Our closely held company offers competitive salaries, excellent benefits and exceptional opportunities for ownership and growth. We encourage you to send your curriculum vitae with three references to:
Hawaii Biotechnology Group, Inc., P.O. Box 1057, Honolulu, Hawaii 96701.

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POSTDOCTORAL RESEARCH ASSOCIATE POSITION FOR GENETIC RESEARCH IN DIABETES is available at the University of Massachusetts Medical School, Worcester, MA. Projects include use of molecular biological techniques to study diabetes susceptibility and other inherited disorders. Candidates should have a Ph.D. or M.D. and a strong background in molecular biology and/or genetics. The position is for two years and may be renewed. Send curriculum vitae, and names and addresses of three referees to: Dr. M. Alan Permutt or Helen Donis-Keller, Box 8127, Department of Medicine/Genetics, University of Massachusetts Medical School, 600 South Salisbury Blvd., St. Louis, MO 63110, Equal Opportunity/Affirmative Action Employer.

SENIOR RESEARCH ASSOCIATE SECTION LEADER PERMANENT POSITION ACADEMIC APPOINTMENT POSSIBLE

Experienced cell biologist/biochemist at The Chicago Cancer Research Laboratory, is an M.D. and Ph.D. interested in joining a multidisciplinary group applying molecular genetic techniques to evaluate diabetes susceptibility in families who suffer from diabetes mellitus. Candidates should have a Ph.D. and/or M.D. and a proven record of research in diabetes or a closely related field. The appointment is for one year and may be renewed. Send curriculum vitae, and names and addresses of three referees to: Dr. D. Alan Donis-Keller, Box 8127, Department of Medicine/Genetics, University of Massachusetts Medical School, 600 South Salisbury Blvd., St. Louis, MO 63110, Equal Opportunity/Affirmative Action Employer.

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ANNOUNCEMENTS

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MEETINGS

THIRD CONFERENCE ON RESEARCH POLICIES AND QUALITY ASSURANCE. Government Regulations. May 2-5, 1993, Baltimore, Maryland. Request brochure from: Dr. ADIL E. SHAMOO University of Maryland at Baltimore 600 WEST REDWOOD STREET BALTIMORE, MD 21201 OR FAX (301) 328-8297

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