

to devise an ink that would not clog postal meters. Begun as the National Inking Appliance Company, it soon extended its activities and took the name National Technical Laboratories. World War II brought about a rapid expansion of the company, which "went public" as Beckman Instruments in 1952. By the early 1960's it was producing some 120 different instruments and was expanding into foreign markets. In 1982 the firm merged with SmithKline Corporation to become SmithKline Beckman, of which the present Beckman Instruments operates as a subsidiary. This account of the company's history is based heavily on interviews with officers and employees of the company. The book is celebratory rather than scholarly or analytical in tone, but hardships as well as successes of the company are dealt with. The book has a page size of 8½ by 11 inches, is printed on glossy paper, and is lavishly illustrated. The author reports that transcripts of the interviews conducted will be on deposit in the Beckman archives and the Claremont Graduate School oral history files.—K.L.

The Dialectical Biologist. RICHARD LEVINS and RICHARD LEWONTIN. Harvard University Press, Cambridge, Mass., 1985. xiv, 303 pp. \$20.

"As biologists who have been working self-consciously in a dialectical mode for many years," the authors of this book write, "we felt a need to illustrate the strength of the dialectical view of biology in the hope that others would find a compelling case for their own intellectual reorientation." To that end they have brought together some dozen essays written by themselves over the last decade, some of which were originally published in relatively inaccessible sources. Some of the papers appear in English for the first time, and the authors report having made some revisions. The volume opens with a group of three papers headed *On Evolution*. A second group of three papers (including an exchange on the matter of the pseudonymous Isidore Nabi) is headed *On Analysis*. Considerations of subjects ranging from Lysenkoism through applied biology in the Third World to "the issue of 'human' nature" make up a third group, *Science as a Social Product and the Social Product of Science*. The final chapter of the book, written especially for it, is characterized by the authors as a "first attempt" to make explicit the view of dialectics underlying the writings included. The volume has a general bibliography and an index.—K.L.

Books Received

- Acambaro.** Frontier Settlement on the Tarascan-Aztec Border. Shirley Gorenstein, with David Chodoff *et al.* Vanderbilt University Department of Sociology and Anthropology, Nashville, 1985. vi, 303 pp., illus. Paper, \$13.75. Vanderbilt University Publications in Anthropology, no. 32.
- Ada for Multi-Microprocessors.** Mike Tedd, Stefano Crespi-Reghezzi, and Antonio Natali, Eds. Published on behalf of the Commission of the European Communities by Cambridge University Press, New York, 1985. x, 208 pp. \$29.95.
- Advances in Biotechnological Processes.** Vol. 4. Avshalom Mizrahi and Antonius L. van Wezel, Eds. Liss, New York, 1985. xvi, 356 pp., illus. \$85.
- Advances in Gene Technology.** Molecular Biology of the Immune System. J. Wayne Streilein *et al.*, Eds. Cambridge University Press, New York, 1985. xxiv, 366 pp., illus. \$59.50. ICSU Short Reports, vol. 2. From a symposium, Miami, Feb. 1985.
- Advances in Immunity and Cancer Therapy.** Vol. 1. P. K. Ray, Ed. Springer-Verlag, New York, 1985. x, 230 pp., illus. \$42.
- Benzene.** Scientific Update. Myron A. Mehlman, Ed. Liss, New York, 1985. viii pp. + pp. 361-499, illus. \$24. Reprinted from *American Journal of Industrial Medicine*, vol. 7, no. 5/6. From a conference, New York, Nov. 1983.
- Biomechanics of the Primate Skull Base.** Brigitte Demes. Springer-Verlag, New York, 1985. vi, 59 pp., illus. Paper, \$22. Advances in Anatomy, Embryology and Cell Biology, vol. 94.
- The Biotechnology Business.** A Strategic Analysis. Peter Daly. Frances Pinter, London, and Rowman and Allanheld, Totowa, N.J., 1985. x, 155 pp. \$25.
- Birth Control Technologies.** Prospects by the Year 2000. Michael J. K. Harper. University of Texas Press, Austin, 1985. x, 271 pp. Paper, \$10.95.
- Bogs of the Northeast.** Charles W. Johnson, with Ian A. Worley. University Press of New England, Hanover, N.H., 1985. xvi, 269 pp., illus. \$25; paper, \$12.95.
- Comparison of Type I and Type II Diabetes.** Similarities and Dissimilarities in Etiology, Pathogenesis, and Complications. Mladen Vranic, Charles H. Hollenberg, and George Steiner, Eds. Plenum, New York, 1985. xii, 351 pp., illus. \$55. Advances in Experimental Medicine and Biology, vol. 189. From a symposium, Toronto, June 1984.
- Computation and Automata.** Arto Salomaa. Cambridge University Press, New York, 1985. xiv, 284 pp. \$39.50. Encyclopedia of Mathematics and Its Applications, vol. 25.
- Device-Independent Graphics.** With Examples from IBM Personal Computers. Robert F. Sproull, W. R. Sutherland, and Michael K. Ullner. McGraw-Hill, New York, 1985. xiv, 546 pp., illus. Spiral bound, \$35.95.
- Dietary Fibre, Fibre-Depleted Foods and Disease.** Hugh Trowell, Denis Burkitt, and Kenneth Heaton, Eds. Academic Press, Orlando, Fla., 1985. xvi, 433 pp., illus. \$64.50.
- Dynamics of Star Clusters.** Jeremy Goodman and Piet Hut, Eds. Reidel, Boston, 1985 (distributor, Kluwer, Hingham, Mass.). xxii, 622 pp., illus. \$69; paper, \$29. International Astronomical Union Symposium no. 113. From a symposium, Princeton, N.J., May 1984.
- The Earth's Surface Studied from Space.** S. G. Ungar, Ed. Published for the Committee on Space Research by Pergamon, New York, 1985. vi, 117 pp., illus. Paper, \$49.50. Advances in Space Research, vol. 5, no. 5. From a workshop, Graz, Austria, June 1984.
- An Ecological Characterization of the Caloosahatchee River/Big Cypress Watershed.** Richard D. Drew and N. Scott Schomer. U.S. Fish and Wildlife Service, Washington, D.C., 1984. xvi, 226 pp., illus. Paper. FWS/OBS-82/58.2.
- Fundamentals of Historical Geology and Stratigraphy of India.** Ravindra Kumar. Halsted (Wiley), New York, 1985. xii, 254 pp., illus. \$29.95.
- Gender.** An Ethnomethodological Approach. Suzanne J. Kessler and Wendy McKenna. University of Chicago Press, Chicago, 1985. xviii, 233 pp. Paper, \$10.95. Reprint, 1978 ed.
- Greek and Roman Maps.** O. A. W. Dilke. Cornell University Press, Ithaca, N.Y., 1985. 224 pp., illus., + plates. \$25. Aspects of Greek and Roman Life.
- Ground Water Quality.** C. H. Ward, W. Giger, and P. L. McCarty, Eds. Wiley-Interscience, New York, 1985. xx, 547 pp., illus. \$59.95. From a conference, Houston, Oct. 1981.
- Hadrons and Heavy Ions.** W. D. Heiss, Ed. Springer-Verlag, New York, 1985. viii, 460 pp., illus. Paper, \$33.30. Lecture Notes in Physics, vol. 231. From a school, Cape Town, South Africa, Jan. 1984.
- A Handbook of Computational Chemistry.** A Practical Guide to Chemical Structure and Energy Calculations. Tim Clark. Wiley-Interscience, New York, 1985. xii, 332 pp., illus. \$35.
- In Vivo Perfusion and Release of Neuroactive Sub-**

- stances.** Methods and Strategies. Alejandro Bayón and René Drucker-Colín, Eds. Academic Press, Orlando, Fla., 1985. xviii, 322 pp., illus. \$62.50.
- Index Filicum.** Supplementum Quintum, Pro Annis 1961-1975. F. M. Jarrett. Clarendon (Oxford University Press), New York, 1985. vi, 245 pp. \$39.95.
- Individual Differences in Cognition.** Vol. 2. Ronna F. Dillon, Ed. Academic Press, Orlando, Fla., 1985. xii, 267 pp. \$39.50.
- Instrumentation and Control for the Process Industries.** John Borer. Elsevier, New York, 1985. xiv, 301 pp., illus. \$58.50.
- The Joy of Science.** Excellence and Its Rewards. Carl J. Sindermann. Plenum, New York, 1985. xviii, 259 pp. \$16.95.
- Land-Use Planning.** From Global to Local Challenge. Julius Gy. Fabos. Chapman and Hall, New York, 1985. xxiv, 223 pp., illus. \$39.95; paper, \$18.95. Environmental Resource Management Series. A Dowden and Culver Book.
- Language and Social Situations.** Joseph P. Forgas, Ed. Springer-Verlag, New York, 1985. xviii, 284 pp. \$33. Springer Series in Social Psychology.
- The Molecular Biology of Poliovirus.** Friedrich Koch and Gebhard Koch. Springer-Verlag, New York, 1985. xvi, 591 pp., illus. \$74.
- Molecular Mechanism of Steroid Hormone Action.** Recent Advances. V. K. Moudgil, Ed. Walter de Gruyter, Hawthorne, N.Y., 1985. xii, 826 pp., illus. \$119.
- Multiple Time Scales.** Jeremiah U. Brackbill and Bruce I. Cohen, Eds. Academic Press, Orlando, Fla., 1985. xiv, 442 pp., illus. \$75. Computational Techniques, vol. 3.
- The Musical Mind.** The Cognitive Psychology of Music. John A. Sloboda. Clarendon (Oxford University Press), New York, 1985. x, 291 pp., illus. \$36. Oxford Psychology Series, no. 5.
- Musical Structure and Cognition.** Peter Howell, Ian Cross, and Robert West, Eds. Academic Press, Orlando, Fla., 1985. xiv, 338 pp., illus. \$52.
- Nutrition in Oral Health and Disease.** Robert L. Pollack and Edward Kravitz. Lea and Febiger, Philadelphia, 1985. xvi, 483 pp., illus. \$32.
- Operators and Function Theory.** S. C. Power, Ed. Reidel, Boston, 1985 (distributor, Kluwer, Hingham, Mass.). xvi, 383 pp. \$49. NATO ASI Series C, vol. 153. From an institute, Lancaster, U.K., July 1984.
- Orchids of South-West Australia.** Noel Hoffman and Andrew Brown. University of Western Australia Press, Nedlands, 1984 (U.S. distributor, International Specialized Book Services, Beaverton, Ore.). viii, 382 pp., illus. \$40; paper, \$28.
- The Pathologist and the Environment.** Dante G. Scarpelli, John E. Craighead, and Nathan Kaufman, Ed. Williams and Wilkins, Baltimore, 1985. xii, 239 pp., illus. \$47.50. International Academy of Pathology Monographs in Pathology.
- Phospholipids in Nervous Tissues.** Joseph Eichberg, ed. Wiley-Interscience, New York, 1985. xx, 386 pp., illus. \$79.50.
- Photonics Applied to Nuclear Physics: 2. Neutrophot.** CERN, Geneva, 1985. x, 312 pp., illus. Paper. CERN 85-10. From a meeting, Strassbourg, Dec. 1984.
- Research and Engineering Applications in Rock Masses.** Eileen Ashworth. Balkema, Rotterdam, 1985. Two volumes. xxxvi, 1292 pp., illus. \$45. From a symposium, Rapid City, S.D., June 1985.
- Review of Biological Research in Aging.** Vol. 2. Morton Rothstein *et al.*, Eds. Liss, New York, 1985. x, 561 pp., illus. \$96.
- Robert Fulton.** A Biography. Cynthia Owen Philip. Franklin Watts, New York, 1985. xii, 371 pp. + plates. \$18.95.
- Spectrometric Techniques.** Vol. 4. George A. Vanasse, Ed. Academic Press, Orlando, Fla., 1985. xii, 262 pp., illus. \$75.50.
- Spectroscopy and the Dynamics of Molecular Biological Systems.** Peter M. Bayley and Robert E. Dale, Eds. Academic Press, Orlando, Fla., 1985. xiv, 406 pp., illus. \$42. From a meeting, London, April 1983.
- Spherical Harmonics and Tensors for Classical Field Theory.** M. N. Jones. Research Studies Press, Letchworth, England, and Wiley, New York, 1985. xiv, 230 pp. \$45. Electronic and Electrical Engineering Research Studies. Applied and Engineering Mathematics Series, 2.
- The Value of Conserving Genetic Resources.** Margery L. Oldfield. U.S. Department of the Interior National Park Service, Washington, D.C., 1984 (available from the Superintendent of Documents, Washington, D.C.) xxii, 360 pp., illus. Paper, \$8.50.
- Viral Hepatitis.** Biological and Clinical Features, Specific Diagnosis, and Prophylaxis. F. Blain Hollinger, Joseph L. Melnick, and William S. Robinson. Raven, New York, 1985. viii, 213 pp., illus. \$29.50.
- Works of Man.** Ronald W. Clark. Viking, New York, 1985. 352 pp., illus. \$24.95.

AAAS NEWS

(Continued from page 533)

gon State University, member of Section E since 1965, 8 August 1985.

V. F. Estcourt of San Francisco, California, member since 1984, 11 May 1985.

Paul W. Farrar of Canby, Oregon, member of Section Q since 1946, 24 July 1985.

Victor W. Farris of Palm Beach, Florida, member since 1984, 7 March 1985.

Aaron Feder, New York Hospital-Cornell Medical Center, member of Section N since 1948, 19 March 1985.

Paul Flory, Nobel laureate and professor emeritus of chemistry, Stanford University member of Section B since 1949, 9 September 1985.

Vernon L. Folt of Akron, Ohio, member of Section C since 1967, 5 July 1985.

Howard Foncannon of Marcellus, Michigan, member of Section Q since 1952, 31 July 1985.

David R. Goddard, botanist, University of Pennsylvania, retired and member, AAAS Board of Directors, 1964-67, member of Section G since 1956, 9 July 1985.

Harold Goulden of Orange, New Jersey, member of Section C since 1932, 7 July 1985.

Robert E. Greenfield, Jr., of Northboro, Massachusetts, member of Section C since 1952, 2 August 1985.

Emily Mae Horrington of Silver Spring, Maryland, member of Section G since 1973, 23 August 1985.

Walter O. Jahrreiss of Baltimore, Maryland, member of Section N since 1951, 6 August 1985.

James Douglas Johnston of Bay Saint Louis, Mississippi, member of Section C since 1956, 31 July 1985.

Austin E. Jones of Spokane, Washington, member of Section B since 1973, 14 June 1985.

Raoul Naroll, distinguished professor of anthropology, State University of Buffalo, member of Section H since 1969, 25 June 1985.

Anthony F. O'Malley of Roswell, New Mexico, member of Section G since 1976, 11 June 1985.

Andrew C. Peacock of Rockville, Maryland, member of Section G since 1964, 26 June 1985.

Jeffrey B. Pearce of Broomfield, Colorado, member of Section B since 1972, 19 August 1985.

R. R. Porter, Department of Biochemistry, University of Oxford, member of Section G since 1968, 6 September 1985.

Srinivas N. Rao of New York, New

York, member since 1976, 4 August 1985.

Dan M. Rodgers of Manhattan, Kansas, member of Section O since 1976, 13 June 1985.

A. L. Russell, chief, epidemiology and biometry branch, National Institute of Dental Research, retired, member of Section R since 1959, 5 August 1985.

Mary Ellen Russell of Bellevue, Washington, member of Section M since 1962, 22 June 1985.

Herbert Scoville, Jr., president, Arms Control Association, member of Section X since 1969, 30 July 1985.

Theodore A. Sheets, Jr., of Cleveland, Ohio, member of Section C since 1953, 4 August 1985.

Norman Simon of Scarsdale, New York, member of Section N since 1963, 23 March 1985.

Donald B. Sinclair of Boston, Massachusetts, member of Section M since 1945, 24 August 1985.

Alexander W. Stern of Los Angeles, California, member of Section B since 1933 22 August 1985.

Emerson N. Zettle of Deltona Lakes, Florida, member of Section P since 1966, 14 July 1985.

Bert Zippel of Jamaica, New York, member since 1984, 4 May 1985.

Reminder for Members

In order to maintain a steady membership growth, AAAS conducts three direct mail promotion campaigns each year. The lists acquired from various sources are screened against the Association's membership list, but if there is *any* variation in name or address, duplications will not be caught. For example, if a member receives AAAS mail, including *Science*, at home but his/her office address appears on another list, it will not be rejected during this screening process. Or, if initials are used on our list and full name on another, again the duplication will be missed.

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AAAS, 1333 H Street, NW
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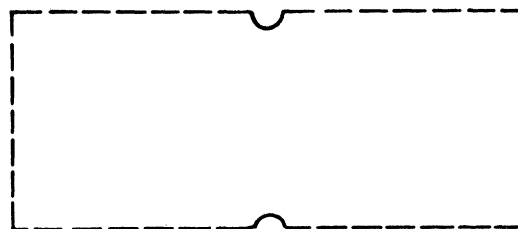
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Immunologist. Ph.D. Experienced researcher in industrial hybridoma/monoclonal antibody development to tumor cell antigens and enzymes of therapeutic interest. Significant work on lymphocyte cytotoxicity and lymphokines. Superior publications and references. Seeking senior staff position in industry or academe. Box 234, SCIENCE. 11/1, 8, 15

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POSITIONS OPEN

Position available for **ACADEMIC PHYSIATRIST**. Board-certification, research, and teaching experience required. Please send résumé to: William J. Erdman II, M.D., Professor and Chairman, PM&R, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, Pennsylvania 19104. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

AQUATIC ECOLOGIST. Applications are invited for a tenure-track position available August 1986. The successful candidate will be expected to: (i) initiate and maintain, through extramural funding, an active, independent research program in aquatic ecology utilizing the University's Crooked Lake Biological Station; (ii) demonstrate excellence in teaching in the area of ecology at the undergraduate and graduate levels and supervise M.S. thesis research; and (iii) serve as program director for the Biological Station, a 4800-square-foot facility located on a 208-acre lake and adjacent to a 117-acre forest preserve. This position is at the **ASSISTANT PROFESSOR** rank and candidates with postdoctoral experience are preferred. Appointment can be considered at the **ASSOCIATE PROFESSOR** rank for a candidate with a strong record of publication and extramural support. Curriculum vitae with a list of graduate courses taken, a statement of research and teaching interests, and three letters of recommendation must be received by 10 December 1985. Send applications to: Dr. D. Wartzok, Chair, Department of Biological Sciences, Indiana University—Purdue University at Fort Wayne, Ind. 46805. An Affirmative Action/Equal Opportunity Employer.

Applications are invited for a tenure-stream position at the **ASSISTANT PROFESSOR** level in the area of molecular genetics.

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The post will take effect on 1 July 1986, or earlier if a suitable candidate is found. The salary range at the assistant professor level, for the period 1 April to 30 June 1986, will be \$29,501 to \$38,009.

Send curriculum vitae and the names of at least three referees to: Dr. John King, Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0, by 13 December 1985.

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William E. Bunney, M.D.

**Professor and Chair
Department of Psychiatry and Human Behavior
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The Department of Pathology at the Wayne State University School of Medicine is seeking an **ANATOMIC PATHOLOGIST** at the level of assistant professor to serve as an obstetrical/gynecological and perinatal pathologist in a hospital-based Division of Anatomic Pathology. Responsibilities will include teaching and research as well as service. Candidates should be Board-certified or -eligible in anatomic pathology, be eligible for licensure in the state of Michigan, and exhibit scholarship potential. Interested candidates should send their curriculum vitae and three references to: **Joseph Wiener, M.D., Chairman, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield, Detroit, Michigan 48201.**

An Equal Opportunity/Affirmative Action Employer

ARCHAEOLOGIST. City College (CCNY) of The City University of New York (CUNY) is accepting applications, pending administrative approval, for a tenure-track position for fall 1986 in historical/urban archaeology with an areal focus in the United States. Preference given to candidates who will develop a research program in the greater New York area; should be committed to teaching an ethnically diverse student body; and developing both undergraduate and M.A.-level courses. Ph.D. and publications required. Application deadline: 16 December 1985. Send curriculum vitae and names of three references to: **Warren G. Kinzey, Chair, Anthropology Department, CCNY of CUNY, Convent Avenue and 138 Street, New York, N.Y. 10031. An Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR. The Department of Anatomy of The Mount Sinai School of Medicine invites applications for a vacant position. Applicants should have active research programs in the general areas of cell and/or molecular biology and be prepared to teach neuroanatomy. Send curriculum vitae and three references by January 1986 to: **T. Barka, M.D., Chairman, Department of Anatomy, Mt. Sinai School of Medicine, One Gustave L. Levy Place, New York, N.Y. 10029. Mount Sinai School of Medicine is an Affirmative Action/Equal Opportunity Employer.**

ORGANISMAL ANIMAL PHYSIOLOGIST DEPARTMENT OF ZOOLOGY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited, pending budgetary approval, for a tenure-track position in organismal physiology at the assistant professor level effective 1 July 1986. Research interests should be focused at the whole animal level, with emphasis on energetics and functional integration in relation to activity or other dynamic changes, such as thermoregulation or osmoregulation. A comparative, environmental, or evolutionary approach is desirable. The successful applicant will be expected to participate in teaching at the undergraduate and graduate levels with responsibilities to include lecture and laboratory aspects of comparative physiology, in addition to participation in introductory biology courses. Applicants should submit curriculum vitae, including a statement of research and teaching objectives, reprints, and the names and addresses of at least three references to: **Chairman, Organismal Search Committee, Department of Zoology, University of California, Berkeley, Calif. 94720.**

Closing date for receipt of applications: 1 January 1986.

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

POSITIONS OPEN

ANIMAL POPULATION ECOLOGIST DEPARTMENT OF ZOOLOGY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited, pending budgetary approval, for a tenured faculty position (associate professor or professor). Individuals with exceptional qualifications and experience who currently hold untenured positions may be considered for associate professorship with tenure. Research areas of particular interest to us are demographic, social, and genetic structures of populations, life-history evolution, the ecology and coevolution of species interactions, and foraging ecology. Teaching responsibilities will include an undergraduate course in animal ecology, and an advanced course in an area of specialization. Applicants should send curriculum vitae, including a statement of research and teaching objectives, reprints, and the names and addresses of at least three references to: **Chairman, Ecology Search Committee, Department of Zoology, University of California, Berkeley, Calif. 94720.**

Closing date for receipt of applications: 1 January 1986.

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

TWO ASSISTANT PROFESSORS. One in food chemistry and one in foods with specialization in food sensory properties. Tenure-track, 9 months, 50 percent teaching, 50 percent research. Ph.D. in related field. For full consideration, send curriculum vitae, statement of research interest, and three references by 1 December to: **Chair, Search Committee, Department of Foods and Nutrition, University of Illinois, 386 Bevier Hall, 905 South Goodwin, Urbana, Ill. 61801.**

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

ASSISTANT PROFESSOR. Applications are invited for a position at the level of ASSISTANT MEMBER (equivalent of assistant professor) in the **Autoimmune Disease Center of Scripps Clinic and Research Foundation**, La Jolla, California. The applicant should be a molecular biologist and interested in working with immunologists. The area of research will be in autoimmunity and will involve studies on structure and function of autoantigens and gene cloning. Interested applicants should send curriculum vitae and bibliography to:

**Dr. E. M. Tan, Director
Autoimmune Disease Center
Scripps Clinic and Research Foundation
10666 North Torrey Pines Road
La Jolla, California 92037**

An Equal Opportunity/Affirmative Action Employer

HARVARD SCHOOL OF PUBLIC HEALTH Assistant Professor

Applications are being accepted from persons with graduate training, postdoctoral experience, and proven accomplishment in nutrition or the following sciences related to nutrition: chemistry, biochemistry, and pharmacology. Applicants must demonstrate the ability to develop an independent research program and teach a chemical approach to the biological effects of foods and their constituents. Preference will be given to candidates whose research has a chemical or molecular orientation. *Expression of interest is particularly invited from qualified women and minority candidates.*

Send curriculum vitae, a summary of past accomplishments, a statement of future interests in research and teaching, and the names and addresses of three references to:

**Professor Peter Goldman
Harvard School of Public Health
665 Huntington Avenue
Boston, Mass. 02115**

YALE UNIVERSITY DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY Two Assistant Professors

Applications are invited for two assistant professorships in the broad area of biophysics and/or molecular biology. Candidates should submit curriculum vitae, a summary of research interests, and should request that three letters of reference be sent to: **Katherine Schrader, Secretary of the Search Committee, Department of Molecular Biophysics and Biochemistry, Yale School of Medicine, 333 Cedar Street, P.O. Box 3333, New Haven, Conn. 06510. Applications must be received by 15 January 1986.**

Yale University is an Equal Opportunity Employer and invites applications from all qualified individuals.

POSITIONS OPEN

DALHOUSIE UNIVERSITY DEPARTMENT OF ANATOMY

Applications are invited from persons with M.D., D.D.S., or Ph.D. degrees for the position of **ASSISTANT OR ASSOCIATE PROFESSOR** which will be available after 1 July 1986. Applicants should be competent to organize and teach courses in human histology/embryology, neuroanatomy, and/or gross anatomy. An established research programme is required. Salary and rank will be commensurate with qualifications and experience. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Dalhousie University has a policy of affirmative action in hiring qualified women staff.* Applicants should forward a copy of their curriculum vitae, detailing teaching and research experience, and arrange to have forwarded, directly, three references to: **Dr. D. G. Gwyn, Professor and Head, Department of Anatomy, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H7. Application deadline is 31 December 1985.**

ASSISTANT OR ASSOCIATE PROFESSOR OF ANATOMY

Applications are invited for tenure-track positions at the assistant or associate professor levels. Applicants should have Ph.D. and/or M.D. and an active research program in one of the general areas of cell biology or molecular biology, genetics, or developmental biology that would complement current research strengths in neurobiology, cardiovascular system, and reproductive biology. Teaching expertise in either gross anatomy, histology, embryology, neuroscience or cell biology for medical, dental, or allied health students is required. Send curriculum vitae, bibliography, a brief statement of research and teaching preferences, plus names of three references to: **Dr. Gary W. Van Hoesen, Anatomy Faculty Search Committee, University of Iowa College of Medicine, Iowa City, Iowa 52242.**

The University of Iowa is an Equal Opportunity Affirmative Action Employer.

ASSISTANT PROFESSORS, CELLULAR, MOLECULAR, AND DEVELOPMENTAL BIOLOGY. The newly reorganized Department of Cell Biology and Anatomy at the Oregon Health Sciences University invites applications for several tenure-track positions. We are seeking individuals with strong research backgrounds in cellular and molecular biology. A willingness to teach, or to acquire teaching skills, in gross anatomy or neuroanatomy is essential. *An Equal Opportunity Employer.* Please send curriculum vitae, the names of three references, and a synopsis of research plans to: **Search Committee, Department of Cell Biology and Anatomy, School of Medicine, Oregon Health Sciences University, Portland, Oregon 97201.**

ASSISTANT PROFESSOR Cellular or Molecular Biologist

The Department of Ophthalmology invites applications for a tenure-track position at the level of assistant professor. The successful candidate should be a cellular or molecular biologist with an interest in the differentiation and development of skeletal muscle and is expected to interact with investigators in the department currently working on the morphology and physiology of mammalian extraocular muscles. Send curriculum vitae, names of three references, and description of research experience and plans to:

**Dr. Dante J. Chiarandini
Department of Ophthalmology
New York University Medical Center
550 First Avenue
New York, N.Y. 10016**

New York University is an Equal Opportunity Employer.

Applications are invited for a position of **ASSISTANT PROFESSOR CO-TERMINOUS**, to lead a research group involved with DNA tumor viruses and chemical carcinogenesis. Substantial experience and accomplishments in molecular virology, molecular genetics, and recombinant DNA technology required. Salary commensurate with qualifications. Send curriculum vitae and three references to: **Dr. Giampiero Di Mayorca, Professor and Chairman, Department of Microbiology, MSB, F-607, University of Medicine and Dentistry of New Jersey-New Jersey Medical School, 100 Bergen Street, Newark, N.J. 07103. UMDNJ is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

University of California, Los Angeles (UCLA) School of Medicine BIOLOGICAL CHEMISTRY

The Department of Biological Chemistry has openings at the level of **ASSISTANT PROFESSOR** (tenure track). We are seeking outstanding candidates with research interests in any modern area of molecular or cellular biochemistry. Applicants should submit curriculum vitae, a one-page summary of research plans, and names of three references to:

Dr. Elizabeth F. Neufeld, Chair
Department of Biological Chemistry
UCLA School of Medicine
Los Angeles, Calif. 90024

The University of California is an Equal Opportunity Employer; applications from women and members of minority groups are encouraged.

ASSISTANT PROFESSOR OF BIOLOGY

As part of a continuing program of growth and development, the Boston College Biology Department plans to fill a tenure-track position by September 1986. The department has active research programs in developmental biology, neurobiology, immunology, reproductive biology, and cell and molecular biology. During the past 2 years we have added three new faculty members to complement these strengths.

We now seek candidates with active research interests in virology or immunology. However, strong applicants in all areas of cellular biology are encouraged to apply.

We offer a competitive salary and start-up funds. Applications, including three letters of reference solicited by the candidate, should be submitted by 15 December 1985 to:

Chairman, Biology Search Committee
Biology Department
Higgins Hall
Boston College
Chestnut Hill, Mass. 02167

ASSISTANT PROFESSOR OF MICROBIOLOGY

The Department of Microbiology, University of Georgia, Athens, Georgia, invites applications for a full-time (9 months per year) tenure-track appointment at the assistant professor level, effective September 1986. Applicants must have a Ph.D. and at least 2 years of postdoctoral experience. All applicants should have demonstrated research competence with prokaryotic or eukaryotic microorganisms and plan to work in the general area of molecular genetics and physiology. The appointee is expected to establish a vigorous research program, to participate in undergraduate and graduate teaching, and to supervise graduate students.

Applicants should forward curriculum vitae, a statement of future research interests, plus three supporting reference letters to:

Chairman, Search Committee
Department of Microbiology
University of Georgia
Athens, Georgia 30602

Applications should be postmarked no later than 15 December 1985.

An Equal Opportunity/Affirmative Action Institution

OKLAHOMA MEDICAL RESEARCH FOUNDATION (OMRF) Associate Research Scientist and Postdoctoral Positions in Protein Molecular Biology

The Oklahoma Medical Research Foundation is a growing research institute located on the campus of the University of Oklahoma Health Sciences Center. The research programs of the Foundation include both basic and clinical biomedical sciences. The Foundation has a postgraduate program in various fields through the affiliation with the Graduate College of the University of Oklahoma.

An associate research scientist position and a postdoctoral position are available by late 1985 to do joint work on the structure and function of proteins using molecular biology and site-directed mutagenesis approaches. A background in molecular biology is desirable. Salary levels above NIH scale.

Send response to: **Dr. Jordan Tang, Head, Protein Studies Program, OMRF, 825 Northeast 13 Street, Oklahoma City, Okla. 73104.** *Oklahoma Medical Research Foundation is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology at the University of Tennessee Center for the Health Sciences invites applications from individuals with strong research credentials in neuropharmacology or neuroendocrinology for two tenure-track appointments available immediately at the level of assistant professor. Applicants must have a Ph.D. and/or M.D. degree, have completed not less than 2 years of postdoctoral training, and have a demonstrated ability to conduct independent research. Preference will be given to applicants who apply modern constructs of biochemistry, immunology, or genetics, to the solution of research problems in pharmacology. The appointee is expected to develop a strong research program and to participate in departmental teaching activities. Closing date is 15 December 1985. Submit résumé, statement of research interests, and arrange for three letters of reference to be sent to: **Dr. Murray Heimberg, Chairman, Department of Pharmacology, The University of Tennessee, Center for the Health Sciences, Memphis, Tennessee 38163.** *Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF GUELPH DEPARTMENT OF ZOOLOGY

The Department of Zoology at the University of Guelph has a tenure-track position available, to be filled at the rank of **ASSISTANT PROFESSOR**. The successful candidate will be expected to undertake teaching duties in established courses in vertebrate anatomy and fisheries science. The candidate will also be expected to develop or continue an active research program and will be encouraged, after a period of establishment, to supervise graduate students in his/her research area(s). Preferential consideration will be given to applicants with a background in population genetics and an interest in fisheries biology, especially aquaculture and fish stock rehabilitation. *Preference will be given to Canadian citizens and permanent residents, in accordance with Canadian immigration requirements.* Applications, including curriculum vitae, recent reprints and names of three referees should reach: **Professor R. C. Anderson, Chairman, Department of Zoology, University of Guelph, Guelph, Ontario, Canada N1G 2W1,** by 1 December 1985.

Tulane University School of Medicine—Seeking **ASSOCIATE PROFESSOR OR PROFESSOR OF MEDICINE** in the Endocrine Section of the Department of Medicine to fill the newly established Tullis-Tulane Alumni Chair of Diabetes. The individual selected must be internal medicine Board-certified and endocrine/metabolic Board-certified/eligible. Academic experience preferred. The position involves teaching, patient care, and research responsibilities. Apply to: **C. Y. Bowers, M. D., Tulane School of Medicine, 1430 Tulane Avenue, New Orleans, La. 70112.** Include updated curriculum vitae. Deadline is 6 December 1985. *Tulane University is an Affirmative Action/Equal Opportunity Employer.*

ATHEROSCLEROSIS RESEARCH

The Cardiovascular Research Center, associated with a major hospital, is seeking nationally recognized research scientists in the fields of cell biology and pharmacology. The **CELL BIOLOGIST** must have a strong background in tissue culture of vascular cells and an interest in cellular lipid metabolism or action of growth factors. The **PHARMACOLOGIST** must have a background in mechanisms of leukocyte activation or vascular cell metabolism, particularly as related to the initial etiology and development of atherosclerosis. The scientists would participate in a multidisciplinary approach to the early detection and prevention of atherosclerotic vascular change. Applicants must hold a Ph.D. and/or M.D. degree. Salary commensurate with qualifications. Please send a statement of research interests and complete curriculum vitae to:

Box 208, SCIENCE

BEHAVIORAL BIOLOGIST

The Department of Zoology, University of Maryland, is seeking outstanding candidates for a tenure-track position in animal behavior. Preference will be for candidates having a demonstrated interest in the evolution of behavior. Rank open. Application deadline: 15 January 1986. Send curriculum vitae, research plans, reprints, and three letters of recommendation to: **Behavioral Biologist Search Committee, Department of Zoology, University of Maryland, College Park, Md. 20742.**

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT RESEARCH PROFESSOR—To conduct research in the areas of protein chemistry and immunology of immunotherapeutic agents and tumor antigen. The work involves purification and complete characterization, including sequencing and synthesis, of immunoregulatory peptides; purification of tumor antigen; and investigation of a variety of immunoassays. Requirements include Ph.D. in biochemistry or immunology; at least 1 year of postdoctoral experience in immunoassays and purification and characterization of immunoregulatory proteins and peptides using various techniques, including modern HPLC; and thorough knowledge of both routine and picomole-level techniques in protein chemistry and experience in application of this methodology to the unique problems of immunomodulators. Salary: \$24,000 per year, 40 hours per week. Respond with résumé only to: **Job Order Number 5980, Division of Employment Security, Government Center, Boston, Mass. 02114.**

BIOCHEMIST—BATES COLLEGE: Applications are invited for a tenure-track faculty position at the assistant professor level, to begin September 1986. Applicants are expected to have a strong commitment to undergraduate instruction, and to have research interests appropriate to upperclass student participation. Ph.D. degree required. Responsibilities include teaching biochemistry and general chemistry courses, and directing undergraduate research. Salary is competitive and start-up funds are negotiable. Closing date: 30 December 1985. Send curriculum vitae, transcripts, description of research interests for undergraduates, and three reference letters to: **Professor James G. Boyles, Chairman, Department of Chemistry, Bates College, Lewiston, Maine 04240.** *Bates College is an Equal Opportunity Employer. We are eager to identify minority and women candidates.*

BIOLOGIST to teach in multisection principles of biology course. Ph.D. required with preparation in genetics, mycology, and/or developmental biology. Curriculum vitae, three letters of recommendation, and copies of all transcripts to: **Dr. Charlene M. Lutes, Chairman, Department of Biology, Radford University, Radford, Va. 24142,** by 2 December 1985.

CANCER MOLECULAR BIOLOGY

Applications are invited for several tenure-track faculty positions at the assistant or associate professor level in the Cancer Center of Northwestern University School of Medicine with academic appointments in the Departments of Molecular Biology and/or Microbiology-Immunology. Applicants should have a Ph.D. or an M.D. degree and several years of postdoctoral training. Candidates having research interest and experience in retroviruses oncogenes, cellular regulatory mechanisms, growth factors, or the molecular biology of differentiation and development are especially encouraged to apply. The successful applicants will be expected to develop vigorous independent research programs in the Cancer Center and to participate in the teaching of graduate and/or medical courses and in the training of graduate and postdoctoral students in the rapidly expanding academic departments. Applicants should send complete curriculum vitae, a brief description of previous research and teaching interests (3 to 4 pages), a bibliography, and recommendations from at least three references by 30 December 1985 to: **Dr. David Shemin, Deputy Director, Cancer Center, Northwestern University School of Medicine, 303 East Chicago Avenue, Chicago, Illinois 60611; telephone: 312-908-5254.**

Northwestern University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

DIRECTOR OF NEUROPATHOLOGY. Applications are invited from pathologists with previous medical school teaching experience for the position of director of neuropathology in the Department of Pathology at the College of Physicians and Surgeons, Columbia University. The appointment will carry a senior academic rank, depending on the candidate's previous experience. Requirements include diagnostic experience, demonstrated administrative and teaching ability, and experience in the training of house officers and fellows. A substantial record of publications is essential and applicants with research experience will be given a preference. Send curriculum vitae and names of at least three referees to: **John J. Fenoglio, Jr., M.D., Department of Pathology, 630 West 168 Street, New York, N.Y. 10032.** *Columbia University is an Equal Opportunity Employer.*

**Vice Chancellor for Research
and Graduate Studies
and
Dean of the Graduate School
The University of North Carolina
at Chapel Hill**

The University of North Carolina at Chapel Hill invites applications and nominations for the position of Vice Chancellor for Research and Graduate Studies and Dean of the Graduate School. Nominees and applicants must have the background to warrant a tenured professorship in a department or school. They should possess strong leadership qualities, have demonstrated success in research and teaching, and have a strong commitment to the ideals of a research university.

The vice chancellor is responsible for promoting and developing research opportunities and reports directly to the chancellor. The vice chancellor oversees 58 doctoral programs and 70 master's programs in the Graduate School.

Salary will be competitive. The position will be available 1 July 1986.

Send nominations and applications to:

**Professor Joseph M. Flora, Chair
Search Committee for Vice Chancellor for
Research and Graduate Studies
Greenlaw Hall 066A
The University of North Carolina
at Chapel Hill
Chapel Hill, N.C. 27514**

These should be received by 16 December 1985.

The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer.

**DIRECTOR, OFFICE OF ENVIRONMENTAL
PROCESSES AND EFFECTS RESEARCH
WASHINGTON, D.C.—\$61,296 to \$70,500**

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) is seeking highly qualified candidates for the position of director, Office of Environmental Processes and Effects Research (OEPER). OEPER is responsible for the development of scientific methods and data necessary to understand, predict and manage the entry, movement, and fate of pollutants into the environment. This includes pollutant effects on the food chain, as well as their effects on nonhuman organisms and ecosystems. The director is responsible for an interdisciplinary Washington staff and six major EPA environmental research laboratories. Applicants must have a bachelor's or higher degree in either the biological sciences, general engineering, or physical sciences, plus substantial professional experience demonstrating the ability to perform in a senior executive position.

Mandatory Technical Qualifications:

- 1) Demonstrated experience as a planner or manager of complex multidisciplinary research and development or technical programs and laboratories, preferably in the environmental field.
- 2) Demonstrated ability to communicate technical and nontechnical information clearly and concisely, both orally and in writing, to technical and nontechnical persons and groups.
- 3) Extensive and diverse technical experience involving engineering and/or the physical or biological sciences, preferably in environmental research or in the environmental regulatory process.
- 4) Demonstrated managerial experience, including the ability to direct and coordinate the work of a large diversified interdisciplinary staff comprised of technical and support personnel, the ability to analyze and evaluate programs, and the ability to conceive, define and communicate technical objectives.

Submit completed SF-171 (application for federal employment) to: Edna Morse, PM-224, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460; telephone: 202-382-3328. Résumés without accompanying SF171's will not be considered. Applications must be postmarked by 18 November 1985. EPA is an Equal Opportunity Employer.

**ASSOCIATE DEAN FOR RESEARCH/
ASSOCIATE DIRECTOR OF THE
NEW JERSEY AGRICULTURAL
EXPERIMENT STATION**

**Cook College/New Jersey
Agricultural Experiment Station**

Assists in coordinating and administering statewide the food, environmental, life science, and agricultural research programs of the Experiment Station, as well as the coordination and leadership of research activities of 20 departments and several research centers. The research component of the Experiment Station includes 244 FTE and an annual appropriated research budget of over \$10 million. The associate dean/director reports to the dean and director and provides creative leadership for research programs in food, agriculture, life science, natural resources, environmental quality, human nutrition, and related areas for the college and station. Helps administer the research budget and provides leadership for the college and research faculty and staff, and identifies principal sources of outside funding from federal agencies and industrial and commodity groups via entrepreneurial activity.

Qualifications include an earned doctorate in agriculture, life or biological science, or related discipline. Outstanding research background, demonstrated administrative competency in program development and leadership, fiscal planning, budget, and personnel management required. Individual with suitable credentials may qualify for faculty appointment.

Please submit complete curriculum vitae and the names of three references by 1 December 1985, indicating Reference Number 83, to:

**THE STATE UNIVERSITY
OF NEW JERSEY
RUTGERS**

**Division of Personnel Services
New Brunswick, New Jersey 08903
An Affirmative Action/Equal Opportunity
Employer**



**THE UNIVERSITY OF MISSISSIPPI
Associate Vice-Chancellor for Research
and
Dean of the Graduate School**

The University of Mississippi invites applications and nominations for the position of Associate Vice Chancellor for Research and Dean of the Graduate School. This position reports directly to the Vice Chancellor for Academic Affairs and has overall responsibility for providing dynamic leadership for the continuing development of the university-wide research and graduate programs on the Oxford campus.

Candidates should be committed to goals that emphasize the importance of research and teaching as equal and dominant functions of a comprehensive university. A doctorate in a degree field offered by the university is required along with experience in research and in working with internal and external agencies that support research. Candidates with administrative experience will be given preference.

Nominations and applications, consisting of curriculum vitae, a letter outlining qualifications, and the names, addresses, and telephone numbers of three references should be sent to:

**Dr. Marvin C. Wilson, Chairman
AVC Research/Graduate Dean Search Committee
Department of Pharmacology
University of Mississippi
University, Miss. 38677**

To ensure consideration, an application must be postmarked by 1 December 1985.

The University of Mississippi is an Equal Opportunity Employer.

South Manchester Health Authority

**Christie Hospital and
Holt Radium Institute**

Paterson Laboratories

**A post-doctoral
appointment**

is available to work on projects concerned with early mechanisms in chemically induced cancer. The post is financed as part of a Cancer Research Campaign programme and is for three years initially. Salary according to age and experience on MRC Scale Grade II.

Applicants should have a background in Biochemistry and/or Molecular Biology. The appointee will work principally in collaboration with Dr. G. P. Margison on aspects of DNA repair. The work will focus on processes which may protect against cancer. Experience in gene transfer and expression would be an advantage.

Applications including c.v. and names of referees should be made to Dr. P. J. O'Connor, Head, Division of Chemical Carcinogenesis, Christie Hospital, Wilmslow Road, Withington, Manchester, M20 9BX, England.

**SENIOR POSITIONS IN
CLINICAL/MOLECULAR GENETICS
MEHARRY MEDICAL COLLEGE**

Two senior positions are available in the Department of Pediatrics as follows:

- 1) A chair professorship endowed by the Kellogg Foundation. We are interested in making an appointment, as soon as possible, of an individual with professional interests in clinical/molecular genetics, although exceptionally talented individuals with research interests in other areas will be considered.
- 2) Under the sponsorship of the March of Dimes-Birth Defects Foundation, Meharry Medical College will appoint a distinguished scientist in the area of clinical genetics and/or molecular biology in its Department of Pediatrics. The position is sponsored under a cooperative program between the March of Dimes-Birth Defects Foundation and Meharry Medical College.

For both positions, opportunity will be created for joint appointments in appropriate basic science departments. Interested individuals should hold the M.D. degree or M.D./Ph.D. and possess professional experience appropriate for appointment at the level of **associate** or **full professor**. The selected individuals are expected to have demonstrated leadership qualities necessary to catalyze institution-wide interest and expansion of research in clinical/molecular genetics and/or research related to birth defects, and to participate in regular teaching/patient care and postgraduate training programs of the Department of Pediatrics and/or appropriate basic science department.

Nominations or applications, containing curriculum vitae, names of four individuals who may be contacted for reference, and a summary of research interests or ongoing projects, should be sent to either: Ifeanyi J. Arinze, Ph.D., Chairman, Department of Biochemistry, or Festus Adebajo, M.D., Chairman, Department of Pediatrics, Meharry Medical College, Nashville, Tennessee 37208. Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIR, DEPARTMENT OF BIOLOGY UNIVERSITY OF CENTRAL ARKANSAS

The University of Central Arkansas invites applications and nominations for the position of chair of the Department of Biology. Twelve-month appointment commencing 1 July 1986.

Administrative and leadership responsibilities for a department of 13 faculty which offers bachelors and masters degrees and serves a varied clientele, including substantial numbers of health professionals.

Earned doctorate in biology required with demonstrated leadership abilities, a documented record of professional accomplishment, and a commitment to excellence in teaching.

Deadline 15 December 1985. Submit letter of application, current curriculum vitae, and three current letters of reference to:

Dr. James S. Dombek, Dean
College of Sciences and Humanities
Irby Hall, Room 40
University of Central Arkansas
Conway, Arkansas 72032

The University of Central Arkansas is an Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON DEPARTMENT OF MATERIALS ENGINEERING UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB)

Applications and nominations are invited for the position of chairperson of the UAB Department of Materials Engineering. The department consists of six full-time faculty, eight adjunct faculty, more than 60 sophomore-senior undergraduates, and 15 master's degree candidates. The department offers B.S.Mt.E. and M.S.Mt.E. degree programs. A new Ph.D. program in materials/metallurgical engineering was initiated fall quarter 1985. The full-time faculty currently direct sponsored research programs in excess of \$400,000 per year.

Candidates for the position should hold an earned doctorate in an appropriate field and have a record of successful teaching and scholarship. The candidate should possess prior administrative experience and demonstrate the leadership qualities necessary to continue the current growth and quality of the program and to enhance interactions with the materials community both within and external to the university. Applications and nominations will be accepted until the position is filled. Please respond to:

Dr. J. Barry Andrews
Chairman of the Search Committee
Department of Materials Engineering
University of Alabama at Birmingham
University Station
Birmingham, Alabama 35294
Telephone: 205-934-8450

UAB is an Affirmative Action/Equal Opportunity Employer.

CLINICAL DIRECTOR Ph.D. in Pharmacology or Biochemistry

Clinical scientist for consumer product (OTC) testing facility in the south. Responsible for development of protocols, management of studies, report writing, and direct client contact. Industry experience preferred but not necessary.

Competitive salary and profit sharing. Send résumé or curriculum vitae with salary history to: **Med-Check, Inc., 2521A Okeechobee Boulevard, West Palm Beach, Florida 33409.**

CRUSTACEAN BIOLOGISTS

One or two tenure-track research professorships, rank/salary negotiable, in Center for Crustacean Research with adjunct appointment to Department of Biology graduate faculty. Research and direction of graduate students. Prefer emphases in genetics/population genetics, reproduction/culture, or ontogeny in structure/function. Must maintain strong record of research, publication, and grant funding; will aid in design, equipping, and start-up of new research laboratories. Opportunity to offer advanced course in speciality. Search open until 15 November 1985, or thereafter until positions fill; prefer starting date in January 1986 or as soon thereafter as possible. Send letter of application, statement of research goals, curriculum vitae, reprints of publications, and at least three letters of reference to: **CCR Screening Committee, Office of Research and Sponsored Programs, University of Southwestern Louisiana, USL Box 43610, Lafayette, La. 70505. The University is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

IDAHO STATE UNIVERSITY COLLEGE OF PHARMACY DEPARTMENT CHAIRPERSON PHARMACEUTICAL SCIENCES

Applications and nominations are invited for the position of chairperson, Department of Pharmaceutical Sciences. This is a 12-month, tenure-track position. Appointment will be at the associate professor or professor level, depending upon qualifications and experience.

Applicants must possess a Ph.D. in one of the disciplines in the pharmaceutical sciences or related fields, and preferably an undergraduate degree in pharmacy; at least 8 years of teaching and research experience within a school or college of pharmacy; a proven record of excellence in pharmaceutical education, research, and a potential for effective administration; and a strong commitment to undergraduate and graduate education and research in the basic pharmaceutical sciences. An ability to obtain extramural funding is also desirable.

Interested applicants should submit a written statement as to his/her perceived role as department chairperson, curriculum vitae, and three letters of recommendation. This position is open immediately and will remain open until filled. Direct all inquiries to:

Marvin R. Huff, R.Ph., Ph.D.
Chairperson, Search Committee
College of Pharmacy
Idaho State University
Pocatello, Idaho 83209
Telephone: 208-236-2280

DEVELOPMENTAL-CELL BIOLOGIST

The Department of Biology of Emory University seeks applicants with postdoctoral experience for a tenure-track position at the assistant professor level to begin 1 September 1986. The candidate should have a strong research program and be prepared to participate in undergraduate and graduate teaching. Applications are encouraged from individuals studying developmental problems at the cellular level. Curriculum vitae, a statement of research interests, and the names and addresses of three referees should be submitted by 15 December 1985 to: **Dr. William H. Murdy, Chairman, Department of Biology, Emory University, Atlanta, Ga. 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.**

DEVELOPMENT ENGINEER (Fast Growing Development-Stage Company)

Responsibilities include (i) the day-to-day operation of a pilot plant fermenter manufacturing plant growth regulators, and (ii) the outline and design of experiments to (a) modify/simplify production procedures/methods and (b) develop quality control procedures. This person will manage and coordinate the activities of two lab technicians.

Experience: At least 5 years of experience in the operation and quality control of a pilot plant fermenter and in cell and tissue culture (higher plant microorganisms). Education: Ph.D. or equivalent in biochemical engineering or microbiology. Compensation: \$50,000 to \$60,000 per year, commensurate with experience, plus benefits package. Location: Apopka, Florida, a suburb of Orlando. Travel: minimal.

Bio-Organics, Inc., is a young company engaged in the development and commercialization of materials which increase the yields of a number of agricultural crops. Based upon success to date, additional funding is being brought into the company to enable a substantial expansion of its activities. We are seeking a small number of good people—self-starters who can make significant contributions in the short-term, and have the capacity for rapid professional growth.

Contact: **Bio-Organics, Inc., Apopka Research Center, 1821 Sheeler Road, Apopka, Florida 32704; or telephone: Dr. Abraham Tenzer at 305-889-9700. Confidentiality assured.**

EUKARYOTIC MOLECULAR BIOLOGIST

The University of Massachusetts Medical School has a tenure-track position (at any level) for a eukaryotic molecular biologist. Applicants should send curriculum vitae, a short statement of proposed or current research, and three letters of reference to: **Search Committee, Department of Molecular Genetics and Microbiology, 55 Lake Avenue North, Worcester, Mass. 01605. Deadline, 22 November 1985. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

UNIVERSITY OF EDINBURGH Chair of Psychology

Applications are invited for this chair in the Department of Psychology in the Faculty of Social Sciences. Candidates should possess a distinguished academic record in psychology. Preference will be given to those experienced in the study of natural thinking, acting, or communicating in human beings. The appointment will be tenable from an early date.

Further particulars of the post may be obtained from **The Personnel Office, University of Edinburgh, 63 South Bridge, Edinburgh, Canada EH1 1LS**, with whom applications (11 copies; overseas candidates one copy) including the names of three referees, should be lodged not later than 16 December 1985.

Please quote: **Reference Number 32/85.**

COMPUTER SCIENTIST/BIOSTATISTICIAN

A computer scientist with interest and background in medical applications of computers is sought for a position in the Department of Neurology at the University of Massachusetts Medical Center. A master's in computer science and experience in biomedical and/or statistical computing is required. Good writing skills are also necessary. Familiarity with MUMPS and C-language is a plus, as is a sound background in statistics and research design.

This position involves the expansion and refinement of an operational computer diagnosis system for application to clinical problems in the field of neurology, in collaboration with Dr. David Drachman, chairman. The existing system which is configured on an IBM PC AT is written in C-language operating system, and relies on Bayesian and other statistical research support to the Neurology Department. Appropriate candidates may receive a faculty appointment. Apply to: **Frances M. Richardson, Assistant Director, Placement Services,**

**University of Massachusetts
Medical Center
55 Lake Avenue North
Worcester, Mass. 01605**

An Affirmative Action/Equal Opportunity Employer

University of Oklahoma Health Sciences Center Department of Pathology An Equal Opportunity/Affirmative Action Employer

Director of Anatomic Pathology, Oklahoma Memorial Hospital. Doctoral degree (M.D. or equivalent), Board-certified or equivalent in AP, and one subspecialty with demonstrated experience in research pathology and/or related field, preferably neuroscience. Responsibilities include research, teaching, and service. Appointment at associate professor level; salary commensurate with experience.

Associate Director of Clinical Laboratories, Veterans Administration Medical Center. Doctoral degree (M.D. or equivalent), Board-certified or eligible in AP and CP, with research background. Responsibilities include research, teaching, and service. Appointment as assistant professor; salary commensurate with experience.

Beginning date on or before 1 July 1986. Send current curriculum vitae and three references to: **Jess Hensley, M.D., Chairman, Search Committee, Department of Pathology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190. Deadline for receiving applications: 1 January 1986.**

FACULTY POSITION DEPARTMENT OF MATERIALS ENGINEERING UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB)

The Department of Materials Engineering has an assistant/associate/full professor tenure-track position open to a qualified applicant in metallurgy, ceramics, or polymers. The department currently offers B.S.Mt.E. and M.S.Mt.E. degrees, and is admitting students for a new Ph.D. program which began fall quarter 1985. An earned Ph.D. is required. Rank and salary will be commensurate with qualifications. Applications will be accepted until the position is filled. Send résumé and names, addresses, and telephone numbers of three references to:

Dr. J. Barry Andrews
Chairman of the Search Committee
Department of Materials Engineering
University of Alabama at Birmingham
University Station
Birmingham, Alabama 35294

UAB is an Affirmative Action/Equal Opportunity Employer.

HOFFMANN-LA ROCHE

NMR Spectroscopy SENIOR SCIENTIST

Hoffmann-LaRoche, a leader in the pharmaceutical industry, is seeking an NMR spectroscopist to establish a research program in Biomolecular NMR within the Department of Physical Chemistry.

The spectroscopist, working closely with the molecular modeling and protein crystallography laboratories, will conduct collaborative research with scientists from the Departments of Chemistry, Biology, Molecular Genetics, and Pharmaceutical Research.

Qualifications: Ph.D in a relevant discipline and a strong, broad background in experimental NMR techniques, and an interest in structure-function relationships in peptides and proteins. Emphasis will be placed on practical aspects of determining secondary and tertiary peptide structure and details of protein-liquid interactions.

Please send your *curriculum vitae*, and name of three references to: Eleanor Malone, Professional Employment and Staffing Specialist



**HOFFMANN-
LA ROCHE INC.**
Nutley, NJ 07110

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from people who care*

DEAN

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY SCHOOL OF OSTEOPATHIC MEDICINE

UMDNJ-School of Osteopathic Medicine invites applications or nominations for the position of Dean.

The Dean is the Chief Administrative Officer, under the President of the University, of the School of Osteopathic Medicine and is primarily responsible for the educational, research and service programs of the school. The Dean will be appointed by the board of trustees of the university upon recommendation of the President from among a slate of nominees provided by the search committee.

The Dean must have an earned D.O. degree from an AOA-accredited College of Osteopathic Medicine and special training and experience relevant to the administration of a College of Osteopathic Medicine (accreditation standards and procedures of the AOA).

Candidates should demonstrate a record of appropriate academic qualifications, medical and/or scientific leadership, and effective administrative experience.

Preliminary inquiries may be made in confidence to Dr. Matthew Freund, Chair, Search Committee, at (609) 757-7844.

Please submit application or nomination by 12-31-85, accompanied by CV and statement of training and experience relevant to the administration of a School of Osteopathic Medicine, to: Matthew Freund, Ph.D., Associate

Dean, Research and Biomedical Sciences, Chair, Search Committee for Dean, UMDNJ-SOM, 401 Haddon Avenue, Camden, New Jersey 08103.
An Equal Opportunity/Affirmative Action Employer m/f/h/v.



DISTINGUISHED RESEARCH FELLOWSHIPS

Los Alamos National Laboratory

The Medical Radioisotopes Research Section is seeking three outstanding recent Ph.D. recipients for the postdoctoral fellowships described below. All positions require responsibility for planning, initiation, and implementation of independent research and presentation of research results. The ability to work as part of a team is also required. Compensation of \$29,520-\$31,080 per annum provided; possible renewal for a second year. **U.S. citizenship is required.**

Inorganic coordination or bioinorganic chemist to label monoclonal antibodies with metal radionuclides and with paramagnetic metals. Develop chelating agents which can be covalently linked to antibodies; particular emphasis will be given to the development of chelating agents for gadolinium. Determine the serum stability of the chelates and assist in animal biodistribution studies of radiolabeled molecules. Experience in radiolabeling or chelation reactions or bioinorganic chemistry is required.

Synthetic organic or bioorganic chemist to synthesize small molecules and chelating agents labeled with radionuclides (halogens or metals) for covalent linkage to monoclonal antibodies. Determine the serum stability of the radio-labeled molecules and assist in animal biodistribution studies of radiolabeled molecules. Collaborate with a protein chemist to develop reactions to conjugate small molecules to antibodies. Experience in halogenation, radiolabeling, chelation reactions, or synthetic reactions utilizing organometallic reagents is required.

Analytical, inorganic, or radiochemist to develop chemical separation procedures on a no-carrier-added level to isolate radioisotopes of interest to the nuclear medicine research community. Perform chemistry in radiochemical hot-cells. Develop new radioisotope generator systems. Interact with radio-labeling and biodistribution efforts of the program. Experience in chemical separation methods (ion-exchange, solvent extraction, electrochemical) and gamma-ray analysis desirable.

Interested candidates should send a resume to Dr. Janet Mercer-Smith (inorganic and organic applicants) or to Dr. Fred Steinkruger (separation applicants) at INC-11, MS J514, Los Alamos National Laboratory, Los Alamos, New Mexico 87545.

To formally apply, send resume, bibliography, three letters of reference, and graduate and undergraduate transcripts to:

Carol M. Rich
POSTDOC-FF
Personnel Administration Division
Los Alamos National Laboratory
P.O. Box 1663, MS P290
Los Alamos, NM 87545

Los Alamos National Laboratory is an Affirmative Action/Equal Opportunity Employer operated by the University of California for the Department of Energy.



POSITIONS OPEN

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM DEAN OF THE SCHOOL OF OPTOMETRY

The University of Alabama at Birmingham (UAB) is seeking applications and nominations for the position of dean of the School of Optometry. The dean is the chief administrative officer of the School of Optometry and is responsible to the Senior Vice President for Health Affairs for the administration of all educational and research programs conducted by the School of Optometry.

The School of Optometry is one of six health professional schools in the UAB Medical Center (the others are Medicine, Dentistry, Nursing, Public Health, and Community and Allied Health). The Medical Center schools are closely related through cooperative programs and collaborative research. Programs offered by the School of Optometry include the professional curriculum in optometry, graduate programs (M.S. and Ph.D.) in physiological optics, optometric residency training, continuing education for practicing optometrists, and basic applied vision research. The research activities are supported in part by a Vision Research Center Grant from the National Eye Institute.

Applications and nominations should include curriculum vitae, the names of three references, and any other supporting material deemed appropriate. To be assured of full consideration, these should be submitted by 31 December 1985 to: Dr. Joseph F. Volker, Chairman, School of Optometry Dean Search Committee, The University of Alabama at Birmingham, Box 85 SDB, University Station, Birmingham, Ala. 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN PHARMACOLOGY

The Department of Pharmacology of The University of Texas Health Science Center at Dallas seeks applications for tenure-track positions at the level of assistant or associate professor. Applicants must have a relevant Ph.D. or M.D. degree, postdoctoral training, and show evidence of firm commitment to a career in independent research. We are particularly interested in considering individuals with an appropriate background who wish to apply techniques of molecular or cellular biology or biochemistry to fundamental problems of pharmacological interest. Responsibilities will also include teaching of medical and/or graduate students after the first year of employment. Send curriculum vitae and a brief description of proposed research to: Dr. Alfred G. Gilman, Chairman, Department of Pharmacology, University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, Tex. 75235. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN BIOCHEMISTRY

Applications are invited for a tenure-track position at the assistant or associate professor level. Preference will be given to individuals with principal research interests in neurobiology at the molecular/cellular level. Candidates should have two or more years of postdoctoral experience and a strong commitment to research.

Please send curriculum vitae, a summary of research plans, and the names of three references to: Search Committee, Department of Biochemistry, Dartmouth Medical School, Hanover, New Hampshire 03756. Dartmouth Medical School is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a position as assistant professor in the biochemistry of animal cells or systems, including, but not limited to, biochemistry of the nervous, immune, and reproductive systems. Candidates must have demonstrated excellence and independence in biochemical research, and have a strong background in biochemistry. The successful candidate will be expected to develop a vigorous and independent research program and participate in the undergraduate and graduate teaching program of the department. Applications, including curriculum vitae and a statement of plans for future research, should be sent to: Dr. H. F. DeLuca, Department of Biochemistry, University of Wisconsin-Madison, Madison, Wis. 53706. In addition, candidates should have letters sent from three people familiar with them and their work. Applications should be received by 16 December 1985 in order to guarantee consideration. The University is an Affirmative Action/Equal Opportunity Employer, and applications are encouraged from women and minorities.

POSITIONS OPEN

A DIRECTOR OF THE RECOMBINANT DNA CORE at the University of Iowa is sought who has a Ph.D. and extensive experience in recombinant DNA techniques. The position is funded by a NIH Diabetes and Endocrinology Research Core (DERC) grant. It involves extensive collaboration and consultation with other DERC and molecular biology laboratories, the opportunity for substantial independent research, the direction of one or two full-time technicians in a fully equipped laboratory, and the management of the laboratory's own budget. It is an excellent opportunity for someone between the postdoctoral level and assistant professor. Salary range—\$22,000 to \$25,000. Send curriculum vitae and three references to: Dr. John Donelson, Department of Biochemistry, University of Iowa, Iowa City, Iowa 52242.

ECOLOGIST. The Nature Conservancy, a national nonprofit conservation organization, seeks Midwest Heritage Ecologist to work on its task force headquartered in Minneapolis. Responsibilities include assisting state Heritage Program community ecologists with classification work, monitoring rare community types, and stewardship. Ph.D. or M.S. plus experience in vegetation ecology required. Travel. Send résumé by 29 November 1985 to: Shelley Rodman, The Nature Conservancy, 1800 North Kent Street, Arlington, Virginia 22209. Note that state community ecologist positions available in near future. Equal Opportunity Employer.

FACULTY POSITION, OPTICS AND VISUAL OPTICS

The School of Optometry of the University of California, Berkeley, invites applications for an associate or full professor position (tenured), effective academic year 1986. We seek an individual who has an outstanding research record in some phase of optics, optometry, visual optics, or physiological optics. Optometric qualifications are desirable, but not required. Physicists or engineers would be eligible, and academic or industrial experience in electro-optical, or ophthalmic instrument design would be suitable. A strong commitment to excellence in teaching is required, and previous experience desired. This person would be expected to carry out an active research program and be responsible for organizing and coordinating the optics courses in the optometric instructional program.

Curriculum vitae, statement of research plans, reprints of published works, and names and addresses of at least three references should be sent to:

Chairman, Search Committee (Optics and Visual Optics)

School of Optometry
University of California
Berkeley, California 94720

Applications will be accepted until 31 December 1985.

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

FUNGAL PHYSIOLOGY

MONTEREY MUSHROOMS, Inc. (an Amfac company) is a national firm based in Santa Cruz, California, specializing in production and sale of high quality, edible mushrooms (*Agaricus bisporus*). A new 5500 square foot research facility was completed at our largest facility near Watsonville, California, in March 1985.

We are seeking to fill an entry-level Ph.D. position with the incumbent expected to work as part of an interdisciplinary research team on new and innovative projects related to yield and quality. We are looking for individuals who are strongly motivated, innovative, and have leadership capability.

The successful candidate will have demonstrated the ability to investigate physiological problems in fungal systems with an organismal orientation. This scientist will be responsible for research in the areas of mushroom growth, reproduction, and quality. Knowledge of nutritional supplements and composting science is helpful.

Our company offers growth potential, competitive salaries, and a full benefit package, including relocation expense reimbursement. Send your résumé or curriculum vitae with three references and reprints to:

Dr. Perry Mulleavy
MONTEREY MUSHROOMS, INC.
Mushroom Research Laboratory
P.O. Box 189
Watsonville, Calif. 95077
An Equal Opportunity Employer

POSITIONS OPEN

UNIVERSITY OF NEBRASKA-LINCOLN

Search for permanent tenure-leading FACULTY announced here on 12 August has been enlarged in breadth and in number of positions. Seek those whose experience transcends the traditional specialized areas or interdisciplinary and those in the more traditional areas. Requires overall excellence and promise of competitive research and quality teaching at all levels. Postdoctoral or other previous academic experience desirable. Apply with complete résumé, an outline of projected research, and have at least three letters of recommendation forwarded by 1 December (or until suitable candidates apply thereafter) to: Dr. Raymond Funk, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska 68588-0304. Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF PITTSBURGH

Applications are invited from macromolecular crystallographers for a tenure-stream FACULTY APPOINTMENT to be made jointly in the Departments of Crystallography and Biological Sciences. The appointee will also be able to take part in the University's Center for the Analysis and Design of Macromolecular Structure, which is in an advanced planning stage. Candidates at a junior level will be favored. Applications, including curriculum vitae and a statement of research interests, should be sent to: Professor B. M. Craven, Department of Crystallography, University of Pittsburgh, Pittsburgh, Pa. 15260.

The University of Pittsburgh is an Equal Opportunity Employer.

FACULTY POSITIONS IN PROKARYOTIC MOLECULAR GENETICS

Applications are invited for senior and junior tenure-track faculty positions in the Department of Microbiology. We are interested in applicants with research interests in prokaryotic molecular biology and/or bacterial genetics. Candidates should have made significant accomplishments in research and should be prepared to maintain an active, independent research program. Excellent salaries, start-up funds, and research facilities are available. Teaching responsibilities are minimal and include participation in courses for graduate, medical, and dental students. The department, among the most well-funded in the nation, provides a stimulating scientific environment and administers several NIH Institutional Fellowship programs that are available to provide stipend support for predoctoral and postdoctoral students.

The basic science departments of the University of Alabama at Birmingham Medical Center continue to recruit outstanding faculty with strong research programs in biochemistry, cellular biology and physiology, immunology, animal virology, and other areas. A particular strength of the institution is the close cooperation between clinical and basic science researchers in areas such as cancer biology, arthritis and rheumatoid diseases, immunodeficiency disorders, bacterial and viral diseases, oral biology, and muscular-skeletal disorders.

Applicants should submit curriculum vitae, a statement of research plans, and the names of three people from whom letters of recommendation can be requested. Applications should be sent to: Gillian Air, Chairman, Molecular Genetic Search Committee, Department of Microbiology, University of Alabama at Birmingham, Birmingham, Alabama 35294. An Equal Opportunity/Affirmative Action Employer

FACULTY POSITION DEPARTMENT OF BIOLOGICAL STRUCTURE SCHOOL OF MEDICINE UNIVERSITY OF WASHINGTON

Applications are invited for an assistant or associate professorial position by candidates with well-established and funded research programs that complement one of the existing broad areas of investigation in the department: cellular and molecular biology, experimental immunology and hemopoiesis, neurobiology, reproductive and developmental biology, macromolecular structure, morphometrics and computer modeling. The individual appointed must have, or be willing to acquire, the skills needed to teach in the anatomical disciplines and participate in the graduate program. Please send curriculum vitae, publication list, résumé of current research activity, status of funding, and four letters of reference by 1 December 1985 to: Cornelius Rosse, M.D., D.Sc., Chairman, Department of Biological Structure, University of Washington, SM-20, Seattle, Washington 98195. The University is an Equal Opportunity/Affirmative Action Employer.

CSIRO AUSTRALIA

DROUGHT RESEARCH/OCEAN-ATMOSPHERIC MODELLING

\$26,001–\$38,243

DIVISION OF ATMOSPHERIC RESEARCH ASPENDALE VIC

GENERAL: The Division of Atmospheric Research has a staff of 130 including 70 professional scientists and undertakes research into physical and chemical aspects of atmospheric phenomena and related areas. The Large Scale Dynamics program is concerned with the identification of mechanisms which determine the general circulation in the atmosphere and their impact on climate and its variability. A major new initiative in this program is the expansion of our effort in the investigation of the causes of widespread Australian droughts using large scale models of the atmosphere and ocean.

DUTIES: To undertake research development of a numerical model of the ocean which can be coupled with a similar atmospheric model to provide a wide ranging climate research facility. The appointee will, in collaboration with other members of the team, design and conduct innovative experiments to investigate anomalous behaviour of the atmosphere-ocean system and its impact on Australian climate. Interaction with other CSIRO Divisions and organizations with mutual interests would also be required.

QUALIFICATIONS: A PhD degree or equivalent qualifications in Applied Mathematics or Physics with demonstrated research ability in oceanography or dynamical meteorology. An interest in the interannual variability of the atmosphere-ocean system together with experience in numerical modelling of the ocean or atmosphere is desirable.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No A1146, should be directed to:

The Chief
CSIRO Division of Atmospheric Research
Private Bag No 1
MORDIALLOC VIC 3195

by 4 weeks from date of publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

CSIRO AUSTRALIA

SENIOR PRINCIPAL RESEARCH SCIENTIST

\$A47,501–\$A52,212

DIVISION OF ENTOMOLOGY CANBERRA AUSTRALIA

GENERAL: The Division carries out basic and applied biological research on insects and related arthropods so as to acquire knowledge relevant to the solution of problems of economic and social significance. The research involves the study of the identity, abundance, and distribution of insects; and of their behaviour, pathology and genetics. The Division is a major centre in Australia for such research and has a professional staff of 120.

The Division's research activities are grouped into a number of sections, each headed by a senior scientist whose role includes providing scientific leadership, control of resources and advice to the Chief of the Division on the research direction of the section, as well as actively initiating and maintaining personal research projects.

The Division has recently established a molecular biology program to investigate the relevance of recombinant DNA to basic and applied entomology. Current projects include studies on eukaryote chromosome organisation and behaviour, gene structure and function, gene transfer technology, the molecular basis of insect development, and molecular analysis of entomophilic nematodes and their bacteria. The Division is also interested in commencing research on the molecular analysis of insect behaviour and communication.

DUTIES: A vacancy exists for a senior scientist to provide research leadership to the molecular biology, physiology, biochemistry and physical sciences programs. The appointee will be familiar with modern techniques of molecular biology and will be expected to develop a personal research program in molecular biology, physiology or biochemistry of insects.

QUALIFICATIONS: A PhD degree or equivalent qualifications in an appropriate field. An excellent record of contribution to research knowledge in this field is required, together with the capacity for research leadership of a high order.

TENURE: Indefinite with Australian Government superannuation benefits available.

SALARY RANGE: Senior Principal Research Scientist, but for exceptionally eminent candidates, consideration may be given to appointment at a higher level.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No A2107, should be directed to:

The Chief
CSIRO Division of Entomology
GPO Box 1700
CANBERRA ACT 2601

by 4 weeks from date of issue

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

SUPERVISORY PHYSICIST RESEARCH PHYSICISTS PHYSICAL OCEANOGRAPHERS GEOPHYSICISTS

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY

The Numerical Modeling Division is seeking a professional to head our Acoustic Simulation Branch and several scientists to perform research in the areas of stochastic modeling, signal processing algorithm development, applied acoustic model development, physical oceanographic and geophysical data base development, and tactical applications of acoustic models. Grade levels are from GS-11 to GM-14 with a salary range of \$26,381 to \$57,759 based upon individual qualifications.

The Numerical Modeling Division conducts numerical analyses of underwater sound propagation and the ocean acoustic environment and develops numerical techniques as required. The Division supports the Navy's need for improved ocean acoustic models and data bases, as well as

analyses supporting operational and tactical applications of the models.

The Branch Head will be responsible for planning, directing, and supervising scientific programs/projects involving a staff of scientists, technicians and support personnel addressing the more fundamental issues within the Division's mission. Salary range is \$44,430 to \$57,759.

Applicants for all positions must have a Ph.D. or equivalent in physics with a strong background in mathematics, acoustics and computer modeling.

Technical questions—Call Dr. Jerald Caruthers, (601) 688-5432 or AUTOVON 485-5432.

Application forms or information—Call Mike Owens, (601) 688-4640 or AUTOVON 485-4640.

Interested applicants, submit a resume or Personal Qualifications Statement, SF-171 (if current or reinstatable Federal government employee) no later than 15 December 1985 to:

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY

Code 140 (S)
NSTL, MS 39529-5004

AN EQUAL OPPORTUNITY EMPLOYER • U.S. CITIZENSHIP REQUIRED

POSITIONS OPEN

FACULTY POSITION BIOCHEMISTRY

The Department of Biochemistry at The University of Texas Health Science Center at San Antonio invites applications for a tenure-track faculty position. This position is available immediately and the rank will depend upon qualifications. Candidates demonstrating exceptional research abilities in important areas of biochemistry or molecular biology will be considered. A successful candidate will participate in teaching graduate and health professional students. Interested applicants should send curriculum vitae, a statement of research interests, and the names of three references to:

**Faculty Search Committee
Department of Biochemistry
The University of Texas Health Science Center
at San Antonio
7703 Floyd Curl Drive
San Antonio, Tex. 78284-7760**

The deadline for applications is 15 December 1985. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY

Applications are invited for a tenure-track faculty position in pharmacology at the assistant or associate professor level. Candidates for the assistant professor position must have had 2 to 3 years of postdoctoral research experience and be capable of initiating an independent research program. Candidates for the associate professor position must have an established, externally funded research program. Emphasis will be given to individuals with research interests in the area of central nervous system pharmacology, however, prospective applicants involved in other areas of research are also encouraged to apply. Besides performing high quality, independent and collaborative research, the responsibilities for the position will involve the teaching of pharmacy students as well as teaching in the graduate program. Applicants should submit curriculum vitae, a letter outlining their research objectives, and the names of three reference sources by 20 November 1985 to:

**Dr. Mustafa F. Lokhandwala, Chairman
Department of Pharmacology
College of Pharmacy
University of Houston—University Park
Houston, Texas 77004**

The University of Houston is an Equal Opportunity Employer.

UNIVERSITY OF ARIZONA

Immediate opening: **FACULTY POSITION IN AQUATIC CHEMISTRY**, assistant professor, Department of Hydrology and Water Resources. Tenure-track position. Ph.D. required with strong background in hydrogeochemistry or analytical methods applied to aquatic chemistry. Successful candidate will develop strong research program, work with graduate students, offer graduate seminars, and develop courses. Deadline for application is 15 December 1985. Letter of interest, résumé, and names and telephone numbers of at least three references to be sent to:

**Search Committee
Department of Hydrology & Water Resources
University of Arizona
Tucson, Arizona 85721**

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

Fortune 500 food company is seeking an experienced **FOOD MICROBIOLOGIST**. M.S. or Ph.D. in microbiology or food science, at least three years of food industry experience, and supervisory skills are required. Familiarity with standard microbiological tests and procedures, as well as with thermal and chemical food preservation techniques is necessary. Please submit résumé, including current salary, to: **Box 232, SCIENCE.**

HERBARIUM CURATOR—Position available 1 January 1986. Duties are half-time curatorial, half-time research for a 12-month, nontenure-track appointment. A Ph.D. is required. The successful applicant will be expected to obtain extramural funding for systematics research and herbarium development. Experience with western North American plants is preferred. Please send curriculum vitae and three letters of reference to: **Dr. W. Dennis Clark, Chairman of Search Committee, Department of Botany and Microbiology, Arizona State University, Tempe, Ariz. 85287, by 2 December 1985. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

FACULTY POSITIONS IN IMMUNOLOGY AND VIROLOGY

The Department of Microbiology and Immunology of the University of Oklahoma Health Sciences Center invites applications for **two tenure-track faculty positions** in the areas of immunology and virology. These may include, but need not be restricted to, molecular and cellular immunology and molecular and medical virology. Rank for each position will depend upon qualifications. Candidates with limited postdoctoral experience, as well as more senior scientists, will be considered. The applicants should have documented excellence in conducting independent research, and be able to compete for extramural research support.

The positions will provide excellent opportunities for conducting basic biomedical research in a department of 10 faculty members with a strong emphasis on the molecular biology of infectious agents. In addition, ample opportunities exist for interaction with 20 adjunct faculty within a large medical complex. Responsibilities will also include instruction of medical, dental, and graduate students but this initially will be at a minimum.

Résumé and inquiries may be directed to:

**Dr. Don Graves
Department of Microbiology and Immunology
University of Oklahoma Health Sciences Center
P.O. Box 26901
Oklahoma City, Okla. 73190**

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

Applications submitted by 1 January 1986 will receive full consideration.

HEAD, DIVISION OF SCIENCE

Search committee seeks a division head for the Division of Science at Northeast Missouri State University (NMSU). NMSU is recognized nationally for its award-winning Value-Added Model of Assessment and has been designated as Missouri's premier liberal arts and sciences university.

The Sciences Division is one of 13 academic divisions and serves approximately 800 majors with 44 full-time faculty members representing the following disciplines: biology, chemistry, physics, agriculture, animal health technology and science education. Master's programs are offered in biology and science education.

Applicants must have an earned doctorate in a science field with an outstanding academic record and demonstrated scholarship. Candidates with skills in leadership, administration, curriculum development, research, and grantsmanship are desired. Salary is negotiable based on qualifications and experience.

Please forward letter of application, curriculum vitae, academic transcripts (undergraduate and graduate), and three letters of reference to: **Dr. Gary Sells, Search Committee, Division of Science, Northeast Missouri State University, Kirksville, Mo. 63501.**

Application deadline is 15 January 1986, or until position is filled. *NMSU is an Equal Opportunity Employer.*

**Northeast Missouri State University
Value Added to your future**

IMMUNOLOGY, 2-year position for Ph.D., preferably with experience in experimental animal systems, cellular immunology, immunohematology, and recombinant DNA technology. Projects involve murine and human bone marrow transplantation, immune cytopenias, immune effector systems, and developing long-term program in mechanisms of autoimmunity. Send curriculum vitae to: **Lawrence D. Petz, M.D., City of Hope National Medical Center, 1500 East Duarte Road, Duarte, Calif. 91010.**

**INSECT POPULATION GENETICIST
U.S. Department of Agriculture (USDA),
Agricultural Research Service (ARS)
Insect Biology and Pest Management Research
Unit, Yakima, Washington**

ARS is seeking a research geneticist to investigate population genetics of horticultural insects to develop pest management strategies. Candidates must have knowledge of insect population genetics. Ph.D. is desirable. Must be U.S. citizen. Salary range: \$26,381 to \$31,619. Contact: **Dr. J. L. Krysan, Research Leader; telephone: 509-575-5945.** For application information/forms, contact: **Pat Roberts, Personnel Division, ARS, USDA, Building 003, Beltsville, Md. 20705; telephone: 301-344-3138.** Applications must be received by 20 December 1985. *An Equal Opportunity Employer.*

POSITIONS OPEN

University of Pennsylvania School of Medicine DEPARTMENT OF MICROBIOLOGY FACULTY POSITION

Applications are invited for a tenure-track position at the level of assistant professor to commence July 1987. Consideration will also be given to individuals at the associate professor level. Applicants should have an established research interest in bacterial molecular biology, preferably specializing in the mechanisms of pathogenesis. Potential to obtain funding as an independent investigator is important, together with an active commitment to teaching medical and graduate students.

The successful integration of all components of the University of Pennsylvania on a single urban campus offers a rich intellectual environment and many opportunities for collaborative and interdisciplinary research. Applicants should have a doctoral degree, and at least 2 years of postdoctoral experience. Please send (i) curriculum vitae; (ii) names of at least three referees; (iii) reprints of three papers; and (iv) a short account of professional background and future plans to: **Microbiology Search Committee, Department of Microbiology, School of Medicine, University of Pennsylvania, Philadelphia, Pa. 19104. Equal Opportunity/Affirmative Action Employer.**

IMMUNOLOGIST

Tenure-track assistant professor in the Department of Life Sciences, Ph.D. with 2 years of postdoctoral experience required. The candidate is expected to establish a research program and participate in undergraduate and graduate teaching. While applicants trained in any area of immunology will be considered, individuals with expertise in molecular immunology, immunogenetics, mechanism of pathogenesis or immunoregulation are encouraged to apply. Position available January or September 1986. Submit letter outlining research and teaching interests, curriculum vitae, bibliography, and three reference letters to: **Dr. William J. Brett, Chairman, Department of Life Sciences, Indiana State University, Terre Haute, Ind. 47809, by 18 November 1985. Indiana State University is an Equal Opportunity/Affirmative Action Employer.**

The Department of Comparative Medicine, Tufts University School of Veterinary Medicine, is recruiting an **INSTRUCTOR OR ASSISTANT PROFESSOR IN IMMUNOLOGY**. This individual should have the Ph.D., D.V.M., M.D., or equivalent degree, and a demonstrated capability in research and teaching. He/she will be asked to: (i) collaborate in research efforts using retrovirus-induced and genetically programmed disease models, (ii) team teach in an immunobiology course, and (iii) develop an independent research laboratory over several years. If interested, please send curriculum vitae and names of three references we may contact to:

**Dr. Carol L. Reinisch
Chairman of Search Committee
Department of Comparative Medicine
Tufts University
School of Veterinary Medicine
136 Harrison Avenue
Boston, Mass. 02111**

Tufts University is an Equal Opportunity Employer.

Closing date: 30 November 1985.

LABORATORY ADMINISTRATOR. Lafayette Clinic is seeking a laboratory administrator. This position requires a senior researcher who has three or more years in advanced original research in neuropsychopharmacology. The psychopharmacologist should be documented as an original researcher by articles published in creditable scientific journals. Lafayette Clinic is located in downtown Detroit, Michigan, and is the psychiatric research arm of the Michigan Department of Mental Health. Civil Service benefits and a competitive salary, depending on experience. If interested, please send curriculum vitae to: **Ted H. Stein, 951 East Lafayette, Detroit, Mich. 48207.**

An Equal Opportunity Employer

LABORATORY TECHNICIAN for new stable isotope facility. Experience with gas chemistry, electronics, glass blowing, and mass spectrometry is desired. Send résumé, letter detailing experience, and three letters of reference to: **Dr. Brian Fry, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, Mass. 02543, by 15 November 1985.** Start date: 1 December 1985. *The Marine Biological Laboratory is an Affirmative Action/Equal Opportunity Employer.*

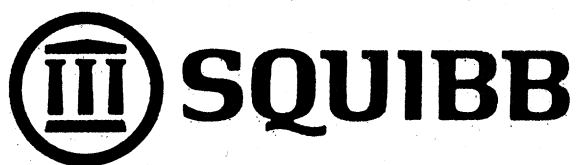
CHAIRMAN

GEORGE WASHINGTON UNIVERSITY

The Department of Civil, Mechanical and Environmental Engineering invites nominations and applications for the tenure position of Chairman. Candidates should have an earned doctorate preferably in Civil Engineering, undergraduate and graduate teaching experience, and research experience. Practical engineering and administrative experience, as well as demonstrated leadership ability, would be highly desirable. Active involvement in professional and technical societies or organizations is preferable, but not required. Ability to attract research grants and contracts for support of faculty and student assistants is valued. Priority will be given to candidates having backgrounds in the areas of structural engineering or environmental engineering and its related areas. Applications, including resume, details of qualifications, and at least four references (including telephone numbers) should be sent before February 1, 1986, to:

Professor John Eftis
Chairman of Search Committee
Department of Civil, Mechanical
and Environmental Engineering
School of Engineering and Applied Science
THE GEORGE WASHINGTON UNIVERSITY
Washington, DC 20052

The University is an affirmative action and equal opportunity employer.



CHOLESTEROL METABOLISM

E.R. Squibb & Sons is a world leader in developing novel approaches for treating cardiovascular disease. We have recently expanded our interest in the cardiovascular area to include hyperlipidemia and related diseases. As a result, a number of excellent opportunities are available for Biochemists, Cell Biologists and Molecular Biologists.

Candidates should possess a Ph.D. or M.D. with postdoctoral experience in one of the following areas:

1. Enzymology and isolation of membrane-bound enzymes
2. Regulatory mechanisms affecting lipoprotein receptor expression or cholesterol synthesis
3. Cloning and expression of mammalian genes

These positions demand a creative approach to the study of cholesterol metabolism and an interest in the development of anti-hypercholesterolemic drugs.

The Squibb Institute, located in Princeton, N.J., offers the opportunity for exceptional scientists to pursue stimulating careers. Our location is a pleasant semi-rural setting convenient to both Philadelphia and New York.

Resumes should be directed to: **The Squibb Institute for Medical Research, Department KC/CM, P.O. Box 4000, Princeton, NJ 08540.** Equal Opportunity Employer, M/F/H/V.

RESEARCH ASSOCIATE LABORATORY OF IMMUNOLOGY NATIONAL INSTITUTES OF ALLERGY & INFECTIOUS DISEASES NATIONAL INSTITUTES OF HEALTH

Description of Duties

Position available immediately for qualified scientist to assist in transgenic mouse facility in the Laboratory of Immunology. Studies are currently in progress to study the expression and regulation of a number of normal and mutant genes that play critical roles in the immune response.

Qualification

Ph.D. or M.D. applicants with experience in embryo injection and transplantation are preferred, but others with similar qualifications will be considered.

The Lab. of Immunology offers a unique environment where modern cellular and molecular methods are being applied to a variety of fundamental problems in immunology.

Qualified and interested candidates should send curriculum vitae and names and addresses of three (3) references to:

William E. Paul, M.D.
Chief, Lab. of Immunology
NIAID, NIH
Bldg. 10, Rm. 11N311
Bethesda, MD. 20892

NIH is an Equal Opportunity Employer

Postdoctoral Scientist Analytical Biochemistry

The Chemical Engineering Department of Smith Kline & French Laboratories, located in a new, state-of-the-art research facility near Valley Forge, PA, is seeking a postdoctoral scientist to join an interdisciplinary program in an environment designed to foster creative, innovative research.

The successful candidate will work within an interdisciplinary team evaluating the performance of novel waste treatment technologies, particularly emphasizing the destruction of biopolymers and biochemicals including specific cellular antigens and nucleic acids of recombinant origin. The study involves design and implementation of trace analytical methods operating at the limits of detectability.

Candidates must have a Ph.D. in Biochemistry, Analytical Chemistry, Immunology or other appropriate discipline. Experience with trace analysis in biochemical matrices and analytical methods development is highly desirable. Facility with nucleic acid hybridization and enzyme-linked or other anti-body-dependent methods is also desirable. Excellent oral and written communication skills essential.

We consider postdoctoral studies of major importance in career development and encourage publication of findings in leading journals as well as full interaction with the scientific community. Postdoctoral positions are normally of two years duration.

Please forward your c.v. to George P. Kissell, Jr., Manager, Personnel Relations, SK&F Laboratories, 1570 Spring Garden Street, Philadelphia, PA 19101. Equal Opportunity Employer.

SK&F
A SmithKline Beckman Company

POSITIONS OPEN

INTERFERON AND LYMPHOKINE BIOLOGY

Postdoctoral fellow (M.D. or Ph.D.) appointments for individuals interested in *in vitro* and *in vivo* effects of human interferons. Research laboratories collaborating on the program are investigating effects of interferons on immune function, cell proliferation, protein induction, and cell surface alterations. Participating faculty includes: L. A. Ball, Ph.D. (2-5A synthetase); E. C. Borden (NK cells); P. M. Sondel, M.D., Ph.D. (T cells); D. Paulnock, Ph.D. (macrophages); J. K. Willson, M.D. (antiproliferative effects); M. Gould, Ph.D. (radiation effects); E. Shrago, M.D. (lipoproteins); G. Byrne, Ph.D. (parasites); and G. T. Bryan, M.D., Ph.D. (chemical carcinogenesis). Participants will work with individual faculty on common research interests and participate in core seminars. Résumés and letters of reference to: **Ernest C. Borden, M.D., University of Wisconsin Clinical Cancer Center, K4/414, 600 Highland Avenue, Madison, Wisconsin 53792.**

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

MICROBIAL PHYSIOLOGIST with experience and training in molecular biology and genetics. Ph.D./postdoctoral experience required. Teaching consistent with other science faculty; research. Start: 16 September 1986. Assistant professor, 9-month, tenure-track. Application closing date: 20 January 1986. Send curriculum vitae, transcripts, and three letters of recommendation to: **J. L. Fryer, Chairman, Department of Microbiology, Oregon State University (OSU), Corvallis, Ore. 97331. OSU is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.**

MOLECULAR GENETICIST

The Department of Biological Chemistry at Wright State University invites applications for a 12-month, tenure-track position at the assistant professor level from individuals using recombinant DNA techniques to investigate any of several areas of biochemistry. These include, but are not limited to, cell surface receptors, hormone action, membrane transport, metabolism, and bioenergetics. Faculty in the Department of Biological Chemistry receive appointments in the School of Medicine and in the College of Science and Engineering. Candidates must have a Ph.D. and postdoctoral experience in molecular genetics or a related field. A commitment to excellence in teaching, and the ability to initiate a vigorous research program meriting federal grant support is expected. Applicants should send curriculum vitae, a detailed research plan, and the names of at least three references to:

**Dr. Robert Weisman, Chairman
Biological Chemistry
Wright State University
Dayton, Ohio 45435**

Applications must be received by 15 December 1985 to be considered.

Wright State is an Equal Opportunity/Affirmative Action Employer.

Opening available for Ph.D. or M.D. with background in **NEUROSCIENCES**, at **POSTDOCTORAL OR INSTRUCTOR** level.

Areas of investigation: biochemical, physiological, and morphological aspects of nerve-muscle interactions, including acetylcholine receptor turnover, junction formation, and mechanisms. Experience in one or more of neurochemistry, cell culture, neurophysiology, and receptor metabolism. Reply with curriculum vitae and two references to: **Dr. Daniel B. Drachman, Department of Neurology, Johns Hopkins School of Medicine, 600 North Wolfe Street, Baltimore, Md. 21205.**

PART-TIME OBSTETRICIAN/GYNECOLOGIST—Entry-level position for board-certified or Board-eligible, who has completed a certified program in gynecologic oncology and who has research interest in tumor heterogeneity and tumor markers. This position requires an individual who has experience using laser surgery and who is an excellent teacher. *The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply and to voluntarily identify themselves.* Interested candidates should send curriculum vitae to:

**William Droegemueller, M.D.
Chairman, Department of Obstetrics/Gynecology
School of Medicine
University of North Carolina
5007 Old Clinic Building
Chapel Hill, N.C. 27514**

POSITIONS OPEN

MOLECULAR BIOLOGIST

The Department of Biology of Dalhousie University has a vacancy for a tenure-track appointment at the assistant professor rank. Applications are invited from persons with a Ph.D. and postdoctoral experience in recombinant DNA research. The successful applicant will be expected to establish a strong research programme, supervise graduate students, and contribute to undergraduate and graduate teaching. Excellent opportunities exist for collaborative research. The position is available from 1 August 1986. Applications accompanied by detailed curriculum vitae and three letters of reference should be forwarded to: **Dr. W. C. Kimmins, Chair, Department of Biology, Halifax, Nova Scotia, Canada B3H 4J1, by 31 December 1985. Dalhousie has a policy of Affirmative Action in hiring qualified women staff. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.**

MOLECULAR BIOLOGIST. The Department of Microbiology of Southern Illinois University is seeking a senior faculty member with a distinguished record of research and scholarship. The successful applicant will be expected to maintain a vigorous, funded research program in the molecular biology of a prokaryotic or eukaryotic system. Individuals with strong records of accomplishment in all areas of molecular biology are encouraged to apply. The department is committed to a continuing program of excellence in both research and teaching and participation in both programs is expected. Qualifications include an earned doctorate, a record of continuing extramural support, and sufficient academic/research experience to support a tenured appointment at the level of **PROFESSOR**. Individuals should submit curriculum vitae, a statement of research interests, and the names of five references to: **Dr. H. Rouhandeh, Search Committee, Department of Microbiology, Southern Illinois University, Carbondale, Illinois 62901. Application deadline is 31 January 1986. Southern Illinois University is an Equal Opportunity/Affirmative Action Employer.**

Ph.D. CANDIDATES/POSTDOCTORAL RESEARCHERS in human genetics and genetic toxicology. Support is currently available to study the nature and causes of genetic change in human somatic and germinal cells. We are applying restriction fragment analysis and gradient denaturing gel electrophoresis to determine human cell mutational spectra. Our aim is to use mutational spectra to indicate the probable causes of human gene mutation. Inquiries to:

**Professor William G. Thilly
Department of Applied Biological Sciences
Room E18-666
Massachusetts Institute of Technology
Cambridge, Mass. 02139
Telephone: 617-253-6221 or 6220**

An Equal Opportunity/Affirmative Action Employer

PHYSIOLOGIST. Applications are invited for a non-tenure-track position as instructor in physiology, biochemistry, or cell biology with opportunities for collaborative research in one of several areas of cellular neurobiology. Teaching will be at both the undergraduate and graduate levels in areas of expertise. Ph.D. required. Prior research or teaching experience will determine salary. The position may be renewable. Send curriculum vitae and names of three references by 30 November 1985 to: **Dr. Albert Herrera, Neurobiology Section, Department of Biological Sciences, University of Southern California, Los Angeles, Calif. 90089—0371. An Equal Opportunity/Affirmative Action Employer.**

PLANT MOLECULAR BIOLOGIST

The Department of Botany of the University of Maryland invites applicants for a tenure-track position in plant molecular biology at the assistant professor level starting 1 July 1986. Postdoctoral experience in molecular biology is preferred. The successful applicant will be expected to develop a vigorous independent research program using molecular techniques to investigate basic processes in higher plants. The successful applicant will be expected to teach one graduate level course per year. Send curriculum vitae, description of research goals, reprints of papers, and four letters of recommendation by 15 January 1986 to: **Dr. P. J. Bottino, Department of Botany, University of Maryland, College Park, Md. 20742.**

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

POSITIONS OPEN

MOLECULAR BIOLOGISTS

The Department of Biology, The University of Alabama, invites applications for two tenure-track positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level to begin August 1986. We seek individuals with research interests in molecular biology. Demonstrated expertise in some aspect of recombinant DNA technology (including gene isolation and cloning, nucleic acid sequencing, and/or gene expression and regulation) is essential. Successful candidates will be expected to develop an active, independent research program and participate in departmental teaching programs. The Ph.D. and postdoctoral experience are required. Rank and salary commensurate with experience. Applicants should submit curriculum vitae, a statement of research interests, and at least three letters of reference to:

**Dr. Ronald Lindahl, Chairman
Search Committee
Department of Biology
The University of Alabama
P.O. Box 1927
University, Alabama 35486**

DEADLINE: Applications will be accepted until the positions are filled. However, interviews will begin in January 1986.

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

OBSTETRICIAN/GYNECOLOGIST—Entry-level position for Board-certified or Board-eligible, who has completed a certified fellowship program in maternal-fetal medicine and who has research experience and interest in exercise physiology as it relates to pregnancy. This position requires an individual with excellent teaching skills. *The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply and to voluntarily identify themselves.* Interested candidates should send curriculum vitae to:

**William Droegemueller, M.D.
Chairman, Department of Obstetrics/Gynecology
School of Medicine
University of North Carolina
5007 Old Clinic Building
Chapel Hill, N.C. 27514**

OCEANOGRAPHER/CHEMIST—National Oceanic and Atmospheric Administration's (NOAA) Atlantic Oceanographic and Meteorological Laboratory in Miami, Florida, is engaged in various research programs involving the ocean and atmosphere which require the application of leading-edge analytical chemistry. Positions are open at the GS-12 level for chemists or oceanographers who have the capability to develop analytical methods in chemistry for application in these research programs. Currently the starting salary for these positions will be at about \$31,619. For further information on this position, contact: **Dr. Donald K. Atwood, NOAA/AOML, 4301 Rickenbacker Causeway, Miami, Fla. 33149; telephone: 305-361-4380.** Information as to how to apply for these positions may be obtained from: **The Personnel Division, U.S. Department of Commerce, Central Administrative Support Center, 601 East 12 Street, Kansas City, Mo. 64106; telephone: 816-374-5016. An Equal Opportunity Employer.**

THE DIVISION OF BASIC MEDICAL SCIENCES MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Invites applications from investigators in the field of

PHARMACOLOGY

to be appointed at the level of assistant professor.

The successful candidate(s) will be expected to apply for and receive scholarship support from the Medical Research Council of Canada or other national funding organization.

Applicants with a basic training in pharmacology and research interests in nerve-muscle pharmacology, electrophysiology and/or neuropharmacology are encouraged to submit their curriculum vitae and an outline of their research interests, as well as to arrange for three letters of reference to be sent to:

**Dr. C. R. Triggie
Associate Dean of Basic Medical Sciences
Faculty of Medicine
Memorial University of Newfoundland
St. John's, Newfoundland, Canada A1B 3V6**

In accordance with Canadian immigration, priority will be given to Canadian citizens and permanent residents of Canada.

**CSIRO
AUSTRALIA
RESEARCH FELLOW
\$A26,001–\$A32,083
DIVISION OF PLANT INDUSTRY
CANBERRA ACT**

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7,500 staff, of whom some 2,900 are professional scientists. The Organization's research activities are grouped into five Institutes: Animal and Food Sciences, Biological Resources, Energy and Earth Resources, Industrial Technology and Physical Sciences. The CSIRO Division of Plant Industry is a member of the Institute of Biological Resources.

FIELD: Plant cell culture/somaclonal variation

GENERAL: The CSIRO Division of Plant Industry conducts research on problems fundamental to plant biology and agricultural production. Prominent in this research are programs concerned with gene transfer and expression, cell culture, photosynthetic processes and nitrogen fixation.

The primary objective of this project is to produce lucerne (alfalfa) genotypes containing condensed tannins in their leaves. Such plants would result in increased utilization of dietary protein and reduced bloat in grazing ruminants.

DUTIES: The appointee will undertake research to produce monohaploid lucerne via microsporogenesis or induced parthenogenesis. Variation will then be generated in populations derived from haploid protoplasts. The appointee will collaborate closely with a cell culture group of 7 scientists. Closely related projects include somatic hybridization studies with lucerne protoplasts. Collaborations will also be with animal nutritionists and lucerne breeders.

QUALIFICATIONS: A PhD degree or equivalent qualifications in a relevant field and preferably with research experience in one or more of the following areas: cell protoplast culture, another culture, legume genetics.

TENURE: A term of three years with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No Y7723, should be directed to:

The Chief
CSIRO Division of Plant Industry
GPO Box 1602
CANBERRA ACT 2601

by 4 weeks from publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

**CSIRO
AUSTRALIA
RESEARCH FELLOW
\$A26,001–\$A32,083
DIVISION OF PLANT INDUSTRY
CANBERRA ACT**

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7,500 staff, of whom some 2,900 are professional scientists. The Organization's research activities are grouped into five Institutes: Animal and Food Sciences, Biological Resources, Energy and Earth Resources, Industrial Technology and Physical Sciences. The CSIRO Division of Plant Industry is a member of the Institute of Biological Resources.

FIELD: Molecular Biology of Symbiosis

GENERAL: The CSIRO Division of Plant Industry conducts research on problems fundamental to plant biology and agricultural production. It maintains extensive programs in the biochemistry and physiology of biological nitrogen fixation by legumes and into the ecology of rhizobia and saprophytic diazotrophic bacteria. There is an active program on molecular aspects of plant and microbial genetics, including a newly-developed program supported by the Australian Wool Research Trust Fund involving the molecular biology of the legume symbiosis.

DUTIES: To undertake research on genetic exchange between rhizobia, particularly in the soil environment.

QUALIFICATIONS: A PhD degree or equivalent qualifications in a relevant field, preferably experience in molecular biology and/or microbial ecology, especially with rhizobia.

TENURE: A term of 3 years with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No Y7724, should be directed to:

The Chief
CSIRO Division of Plant Industry
GPO Box 1600
CANBERRA ACT 2601

by 4 weeks from publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

**CSIRO
AUSTRALIA
RESEARCH IN RESOURCE INFORMATION TECHNOLOGY
\$A26,001–\$A38,243
DIVISION OF WATER AND LAND RESOURCES
CANBERRA ACT**

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7,500 staff, of whom some 2,900 are professional scientists. The Organization's research activities are grouped into five Institutes: Animal and Food Sciences, Biological Resources, Energy and Earth Resources, Industrial Technology and Physical Sciences. The CSIRO Division of Water and Land Resources is a member of the Institute of Biological Resources.

GENERAL: The Division of Water and Land Resources conducts research into methods for improved inventory, evaluation, planning and management of the nation's water and land resources. The development of computer based methods for acquiring, storing, retrieving and analysing resource data for re-establishment of national, State and regional geographic information systems forms an important aspect of this research.

DUTIES: Collaborate in the research of the Catchment Hydrology Program to develop methods for the representation and analysis of spatially distributed data and the interpolation of spatial and temporal data through the definition of mathematical models for terrain and climate analysis. This program has research teams addressing questions in the fields of land and water resource management and in applications to catchment hydrology.

QUALIFICATIONS: A PhD degree or equivalent qualifications in mathematics and statistics and qualifications and/or experience in numerical analysis and computer programming, preferably including experience in the design and development of geographic information systems and in digital elevation modelling. Experience with processing and analysing cartographic data is desirable.

TENURE: Indefinite with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No A3132, should be directed to:

The Chief
CSIRO Division of Water and Land Resources
GPO Box 1666
CANBERRA ACT 2601

by 4 weeks from publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

**CSIRO
AUSTRALIA
RESEARCH FELLOW
PLANT PATHOLOGY
\$A26,001–\$A32,083
DIVISION OF PLANT INDUSTRY
CANBERRA ACT**

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7,500 staff, of whom some 2,900 are professional scientists. The Organization's research activities are grouped into five Institutes: Animal and Food Sciences, Biological Resources, Energy and Earth Resources, Industrial Technology and Physical Sciences. The CSIRO Division of Plant Industry is a member of the Institute of Biological Resources.

GENERAL: The CSIRO Division of Plant Industry conducts research on problems fundamental to plant biology and agricultural production. One of the Division's programs involves research on viruses in plant rusts. The aims are to characterise these viruses using molecular techniques and to investigate the role these viruses may play in the development of rust disease. A new facet in this research is support from the Wheat Research Council to specifically investigate these viruses in wheat rusts and to develop probes for use in rust identification.

DUTIES: To undertake research on RNA viruses present in several different races and species of wheat rust.

QUALIFICATIONS: A PhD degree or equivalent qualifications with experience in the basic technologies of molecular biology. Experience with plant pathogens and/or double stranded RNA viruses would be an advantage.

TENURE: A term of 3 years with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No E7725, should be directed to:

The Chief
CSIRO Division of Plant Industry
GPO Box 1600
CANBERRA ACT 2601

by 4 weeks from publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

TENURE-TRACK POSITION MOLECULAR GENETICS/ANIMAL DEVELOPMENT SANTA CLARA UNIVERSITY

Applicants are sought for a tenure-track position as assistant professor of biology to start fall term 1986. Requirements are a completed Ph.D. in an appropriate field, teaching experience, and an active research program. Postdoctoral experience is strongly recommended. Applicants will be expected to involve undergraduate students in their research.

Santa Clara University, a Jesuit institution, is located 45 miles south of San Francisco. It is an undergraduate, liberal arts institution in which emphasis is placed both on teaching excellence and quality research. The appointee will teach advanced courses in molecular genetics and animal development (both with laboratory) as well as participate in the lower division core curriculum.

Applicants should submit their résumés, official transcripts, names, addresses, and telephone numbers of three references, and a brief outline of their current research to: **Dr. G. A. Tomlinson, Department of Biology, Santa Clara University, Santa Clara, Calif. 95053**, by 1 December 1985. *Santa Clara University is an Equal Opportunity/Affirmative Action/Title IX Employer, M/F/H.*

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Is currently accepting applications for the following faculty position:

OBSTETRICIAN/GYNECOLOGIST to direct teaching unit of the University of North Carolina at Chapel Hill located in Raleigh, North Carolina. Full-time, tenure-track appointment. Prefer knowledge of a community practice and academic issues. Rank and salary negotiable, depending on previous experience. *The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply and to voluntarily identify themselves.* Applicants should send curriculum vitae to:

Dr. John Key
Wake Medical Center
3000 New Bern Avenue
Raleigh, N.C. 27610

PHYSIOLOGICAL PLANT ECOLOGIST

Assistant or associate professor. The Department of Plant Biology, University of Illinois, at Urbana-Champaign, invites applications for a tenure-track position beginning 21 August 1986. Responsibilities include contributing to undergraduate and graduate teaching, supervising graduate students, and conducting a vigorous research program. A Ph.D. degree with emphasis in plant ecology is required. Extensive research experience with physiological approaches to understanding plant population or community dynamics is preferred. Salary negotiable. To ensure full consideration, applications should be received by 1 December 1985. Send curriculum vitae, summary of research interests, and three letters of reference to: **Dr. Paul G. Risser, Department of Plant Biology, University of Illinois, 505 South Goodwin, Urbana, Illinois 61801.** Telephone: 217-333-6830.

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

PLANT ECOLOGIST ASSISTANT or ASSOCIATE PROFESSOR

The Division of Biology at Kansas State University (KSU) has a tenure-earning position available at the assistant or associate professor level effective 1 September 1986. Although broadly defined, we particularly are interested in individuals with postdoctoral experience and an ability to take advantage of grassland research opportunities on our 3487-hectare Konza Prairie Research Natural Area. Candidates at the associate professor level should have evidence of an independent and productive research career. The successful applicant will be expected to establish a vigorous research program and to participate in undergraduate and graduate teaching. Candidates should apply by 31 December 1985 by submitting curriculum vitae and a brief description of future research plans, and by having three letters of reference sent to:

Terry C. Johnson, Director
Division of Biology, Ackert Hall
Kansas State University
Manhattan, Kans. 66506

KSU is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PLANT MOLECULAR BIOLOGIST

The Department of Biology of the University of California, San Diego (UCSD), invites applications for a tenure-track position in plant molecular biology. The level of the appointment will be commensurate with the experience of the successful candidate. Responsibilities include development of a research program in plant molecular biology and participation in undergraduate and graduate-level teaching. Candidate must have Ph.D. and postdoctoral experience in plant molecular biology. Please submit curriculum vitae, a statement of professional goals and research interests, and names of three referees by 10 January 1986 to: **Ms. D. David, Plant Molecular Biology Search Committee, Department of Biology, C-016, UCSD, La Jolla, Calif. 92093.** All applications will receive thorough consideration.

The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

PLANT PHYSIOLOGIST/PHYSIOLOGICAL ECOLOGIST. The Department of Biology of The Pennsylvania State University announces a tenure-track position at the assistant/associate professor level, starting between 1 January and 1 September 1986. The candidate chosen will be expected to develop a strong externally funded research program, to train graduate students, and to participate in graduate and undergraduate teaching. Research interests preferred, but not limited to, photobiology, resource accumulation and transport physiology, stress physiology (including plant-animal interactions), and phytochemistry. Ph.D. required and postdoctoral experience desirable. Send curriculum vitae, statement of research interests, and three letters of reference by 15 December 1985 to: **R. H. Hamilton, Chairman, Search Committee, Box B, 208 Mueller Laboratory, The Pennsylvania State University, University Park, Pa. 16802.** *An Equal Opportunity/Affirmative Action Employer.*

POLYMER CHEMIST—Set up and operate a multi-purpose polymer laboratory for research and development. Formulate basic developmental program objectives, design and develop materials, design relevant test procedures, perform tests, and supervise work of other scientists and technicians. Publish results in appropriate journals. Requires significant knowledge and experience in formulating, and developing, and testing polymer composites and adhesives for diverse applications. Must have substantial knowledge and experience in developing plastic scintillators for high energy physics detector systems. Requires experience with polymer materials at cryogenic temperatures and significant mechanical testing and test design experience. Must be conversant in the use of all relevant testing equipment for physical, chemical, mechanical, electrical, vacuum, and high and low (cryogenic) temperature characterization of all related materials. Requires Ph.D. in polymer science. Please specify **Job Number A/3544**. Send two copies of résumé to: **Lawrence Berkeley Laboratory, Employment Office 90-1042, 1 Cyclotron Road, Berkeley, Calif. 94720.** *An Equal Opportunity Employer, M/F/H.*

POLYMER SCIENTIST to perform research and development work on emulsion and/or solution polymerization, latex technology and adhesive; using emulsion theory, mathematical modeling, reaction kinetics, reactor design methodology and process optimization for emulsion polymerization in continuous reactor system. Requires Ph.D. in chemical engineering. Salary: \$33,000 per year. Apply with résumé to: **W. J. Murphy, Aiken Job Service, P.O. Box 2418, Aiken, S.C. 29802 (0271743).**

POSTDOCTORAL BIOCHEMIST. Position available immediately for Ph.D. familiar with work on oxidative phosphorylation in eukaryotes. Applicants with a record of productivity in research should submit curriculum vitae and references to: **The Rockefeller University, Box 264, 1230 York Avenue, New York, N.Y. 10021.** *An Equal Opportunity Employer.*

POSTDOCTORAL CANDIDATE

Position available immediately at postdoctoral or advanced level for an individual interested in the molecular basis of development as related to cellular adhesion. We are seeking a well motivated individual with expertise in protein chemistry or molecular biology to work in an area of cell-substratum adhesion. Interested persons should send curriculum vitae and list of references to: **Clayton Buck and Alan F. Horwitz, THE WISTAR INSTITUTE, 36th and Spruce Streets, Philadelphia, Pa. 19104.** *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE: CELLULAR ELECTROPHYSIOLOGY

A position is available immediately to study cellular mechanisms underlying control of secretion from rat lactotrophs. The project uses the reverse hemolytic plaque assay to identify specific cell subtypes for subsequent characterization with standard whole-cell and patch-clamp electrophysiology. Ph.D. and experience in cellular electrophysiology and cell culture are desirable. Salary: NIH equivalent. Duration: minimum of 2 years. Send curriculum vitae and three letters of recommendation to:

Dr. C. J. Lingle
Department of Biological Science
Florida State University
Tallahassee, Fla. 32306-3050
Telephone: 904-644-1759

POSTDOCTORAL FELLOW with physics, biophysics, or health physics background to work in area of internal dosimetry of new radiopharmaceuticals with emphasis on external quantitation using planar and 3-dimensional nuclear medicine imaging. Must be citizen, noncitizen national, or admitted for permanent U.S. residency. Position open immediately. Send résumé and telephone numbers of three references to: **James E. Carey, Nuclear Medicine, University of Michigan Hospital, Ann Arbor, Mich. 48109.** *A nondiscriminatory, Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP. Position available immediately to study the regulation of apolipoprotein synthesis and lipid accumulation in cultured macrophages. Experience in protein and lipoprotein biochemistry, cell biology, and molecular biology is desired. Send curriculum vitae and names of three references to: **Dr. Linda K. Curtiss, Department of Immunology, Research Institute of Scripps Clinic, 10666 North Torrey Pines Road, IMM-17, La Jolla, Calif. 92037.** *Equal Opportunity/Affirmative Action Employer, M/F/H.*

POSTDOCTORAL FELLOW AND RESEARCH ASSOCIATE for the study of metal transport in *P. falciparum* infected red cells using biochemical and immunologic probes. Send curriculum vitae to: **S. Pollack, Room 911 Ullmann Building, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461.**

POSTDOCTORAL POSITION

Position available immediately to join our work on the molecular mechanisms involved in the control of protein phosphorylation by insulin. Position is funded for a minimum of 2 years, with possible renewal for a third and final year. Salary is based on current NIH postdoctoral stipend levels. Highly motivated candidates with relevant background in biochemistry and/or pharmacology should send curriculum vitae and list of three references to: **J. C. Lawrence, Department of Pharmacology, Washington University School of Medicine, 660 South Euclid, St. Louis, Mo. 63110.**

POSTDOCTORAL POSITION available in research of membrane lipids, lipoproteins, lipid transfer proteins, or arteriosclerosis. Background in lipid/lipoprotein methodology desirable. Send résumé to: **D. B. Zilversmit, Nutritional Biochemistry, 200 Savage Hall, Cornell University, Ithaca, N.Y. 14853.**

POSTDOCTORAL POSITION IN REPRODUCTIVE ENDOCRINOLOGY

Available immediately to study photoperiodic modulation of pineal-hypothalamic-pituitary axis in horses. Experience with horses is not necessary, but background in neuroendocrinology and/or circadian organization is essential. Experimental approach involves testing interactions among photoperiod, pineal compounds, opioid peptides, catecholamines, gonadotropin-releasing hormone, and LH and FSH. Send curriculum vitae to:

Dan C. Sharp, Ph.D.
459 Shealy Drive
Department of Animal Science
University of Florida
Gainesville, Fla. 32611

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION. Available immediately to study biochemistry and molecular biology of bacterial heme proteins and regulation of their biosynthesis. Salary: \$20,000 per year. Send curriculum vitae and references to: **Dr. Dale Webster, Department of Biology, Illinois Institute of Technology, Chicago, Ill. 60616.**

PACIFIC
UNIVERSITY



DEAN
Oregon Graduate School
of Professional Psychology (OGSPP)
Pacific University

Pacific University seeks applications and nominations for the position of dean of the Oregon Graduate School of Professional Psychology. The dean is the chief academic and administrative officer of the school and reports directly to the president. Pacific University is an independent institution, founded in 1849, with an enrollment of 1200 students. The University, which includes a College of Arts and Sciences, College of Optometry, and the Oregon Graduate School of Professional Psychology, is located in Forest Grove, Oregon, a small town in the Tualatin Valley, a short drive from the Pacific Ocean, the Cascade Mountains, and the city of Portland. OGSPP of Pacific University is accredited by the Northwest Association of Schools and Colleges.

OGSPP offers doctoral studies in clinical psychology leading to the Psy.D. degree. The primary intent of the program is to educate professional psychologists in a wide variety of approaches as providers of services within a variety of community contexts and organizations. The school views as critical to the educational process not only the imparting of information, but modeling by institution and faculty of the ideals of professional behavior and service to the public that it expects of its graduates. Emphasis on community involvement and practical applications of theoretical and scientific psychology make OGSPP unique in the Pacific Northwest.

The dean is responsible for leadership in program development and quality control, executes policy and must interact effectively with faculty, students, and the public. Faculty duties include teaching, dissertation supervision, and evaluation of students.

The dean will help develop resources for program and faculty development; work with the president, as well as the offices of Admissions, Registrar, Dean of Students, in the interest of the College; and will work with faculty and students in the university's participatory governance system.

Qualifications include an earned Ph.D. or Psy.D. from an accredited program in clinical psychology, eligibility for licensing in Oregon, demonstrated capacity for higher education administration and academic leadership, demonstrated successful teaching experience, and an ability to communicate effectively with constituencies within and outside of the school. ABPP certification is preferred.

Closing date for applications is 1 December 1985. The salary is competitive and commensurate with qualifications and experience. Applicants should submit a letter of interest, a résumé, and the names and addresses and telephone numbers of three references to: **OGSPP Dean Search, c/o President's Office, Pacific University, Forest Grove, Oregon 97116.** *Pacific University is an Equal Opportunity/Affirmative Action Employer.*

UBI

UNITED BIOMEDICAL, INC.

A Long Island based, dynamic young company dedicated to product-oriented R&D and diagnostics technology. 30 minutes from Manhattan. Excellent opportunity for motivated individuals to join the challenging venture our company offers.

PEPTIDE/PROTEIN CHEMISTS, Ph.D.

Recent Ph.D.'s are preferred. Experience in peptide synthesis, HPLC, protein/peptide purification, protein immobilization and immunochemical techniques is required. Responsibilities include purification and characterization of proteins from recombinant microorganisms, troubleshooting in production processes and interaction with the production manager and R&D team.

PRODUCTION MANAGER

Experience in industry, regulatory compliance and management with strong communication skills is required. Responsible for supervision in the production of biological and diagnostic products.

UBI offers competitive salary, excellent benefits package and relocation policy. Please send resume with salary requirements and publications in confidence to:

Personnel Manager, United Biomedical, Inc.
2 Nevada Drive, Lake Success, New York 11042

Medical Staff Fellowship in Molecular Genetics at NIH

The Molecular Genetics Section of the Genetics and Biochemistry Branch, National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases, National Institutes of Health, is offering a Medical Staff Fellowship in Molecular Genetics. Applications are invited from individuals of the highest caliber with the M.D., or M.D., Ph.D. degrees. Applicants should have two years of clinical experience and research experience is preferred. Applications are being accepted now for appointments which begin July 1986. The appointment is for two years and there is a possibility of extension of the appointment for a third year.

The Medical Staff Fellow may participate in the NIH Interinstitute Medical Genetics Program as well as carry out research in basic molecular

genetics involving recombinant DNA techniques and DNA-mediated gene transfer into eukaryotic cells.

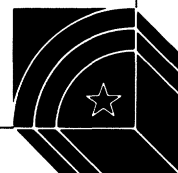
Interested candidates should submit their curriculum vitae to or request further information from:

Dr. R. Daniel Camerini-Otero
Chief, Genetics and Biochemistry Branch
National Institute of Arthritis, Diabetes,
and Digestive and Kidney Diseases
Building 10, Room 9D-15
National Institutes of Health
Bethesda, Maryland 20205

Deadline for applications is November 15, 1985.



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Employer



POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN PHARMACOLOGY

Available now to study the biochemical pharmacology of airway smooth muscle during aging. The emphasis of project is to better understand the events involved in agonist-induced airway contraction/relaxation. Candidate must have a Ph.D. Experience with smooth muscle preparations and/or calcium flux measurements, ion transport, and PI turnover desirable. Send curriculum vitae and brief résumé of interests to: **Dr. James S. Douglas, c/o The John B. Pierce Foundation Laboratory, 290 Congress Avenue, New Haven, Conn. 06519. The Laboratory is an Equal Opportunity Employer.**

CARR POSTDOCTORAL FELLOWSHIP IN ZOOLOGY

The University of Florida announces its 1986 Archie F. Carr, Jr., Postdoctoral Fellowship, to commence July 1986 (\$18,000 for 12 months, renewable for a second year). The recipient will establish a research project in comparative, ecological, or evolutionary zoology and will interact broadly with faculty and graduate students. The department will provide information about its faculty upon request. Applicants should submit reprints of representative publications, curriculum vitae, dissertation abstract, proposal of intended research (four pages maximum), and indicating why the University of Florida is appropriate for the research), and three letters of recommendation to:

Dr. Pauline Lawrence
Chairperson, Search Committee
Department of Zoology
University of Florida
Gainesville, Florida 32611
Telephone: 904-392-0178, 392-1107

Application deadline is 31 January 1986. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Research study in biotransformation function in trichomonads. Responsible for sexually transmitted disease. Ph.D. in biological science. Position available immediately. Salary: \$16,000 to \$17,000 per year. Send curriculum vitae with names, addresses, and telephone numbers of three references by 22 November 1985 to: **Dr. Donald G. Lindmark, Chairman, Department of Biology, CLEVELAND STATE UNIVERSITY, 1983 East 24 Street, Cleveland, Ohio 44115. An Equal Opportunity Employer, M/F/H.**

POSTDOCTORAL POSITIONS available for 2 to 3 years to work on the cloning, sequencing, and structure of genes for a number of different microtubule related proteins as well as other human and mammalian cell's proteins. Genetic alterations in mutants affected in these proteins will also be investigated. Previous experience in gene cloning, sequencing, and other molecular biological techniques desirable. Initial salary in the range of \$18,900 to \$24,000, depending upon experience. Send résumé with names of three references to: **Dr. R. S. Gupta, Department of Biochemistry, McMaster University, Hamilton, Ontario, Canada L8N 3Z5.**

POSTDOCTORAL POSITION

The Diabetes Unit at the Massachusetts General Hospital is seeking two postdoctoral fellows to study the mechanism of insulin action. One project involves insulin-regulated protein phosphorylation, and the other involves the regulation of protein synthesis by insulin and growth factors. Candidates with experience in protein chemistry and cell biology preferred. Send curriculum vitae, statement of interest, and three letters of support to: **Dr. Raphael Nemenoff or Dr. Mark Pierce, Diabetes Unit, Howard Hughes Medical Institute at Massachusetts General Hospital, Wellman 3, Boston, Mass. 02114.**

POSTDOCTORAL POSITION available January 1986. Cell biology research interests in membrane ultrastructure and composition preferred. Individual would teach in laboratory in medical histology course. Excellent research facilities and ample research time. Starting salary is \$20,790. Send curriculum vitae and names of three references by 1 December 1985 to:

Gary E. Wise, Ph.D.
Chairman, Department of Anatomy
Texas College of Osteopathic Medicine
Camp Bowie at Montgomery
Fort Worth, Texas 76107-2960

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the metabolic and nutritional effects of interleukin 1 and other immunologically important hormones. Experience with protein purification, cell culture, and radiotracer techniques preferred. \$20,000 annual salary. Send curriculum vitae and three references to: **Kirk C. Klasing, Department of Avian Sciences, University of California, Davis, Calif. 95616, or telephone: 916-752-1901. The University of California is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN THEORETICAL NEUROBIOLOGY

A postdoctoral position is available in the areas of computer-aided functional reconstruction of neuronal systems and in statistical processing and analysis of nerve-impulse sequences. Candidates must have completed the doctoral degree in neuroscience, with a strong background in membrane biophysics, mathematics and statistics, including differential equations, and computer programming. The position is for 1 year, with the possibility of renewal.

The research includes development of simulation and analysis programs, including interactive graphics, as well as application to specific neuronal systems, such as dendritic spines, sensory and motor circuits, and cortical systems, with special emphasis on cellular mechanisms of plasticity. Research is carried out on the Irvine campus of the University of California, midway between Los Angeles and San Diego. The campus has a number of strong and active research groups in the neurosciences.

Applicants should submit complete curriculum vitae, including bibliography and reprints, as well as names and addresses of references. Address correspondence to:

Professor Donald H. Perkel
Theoretical Neurobiology Facility
Department of Psychobiology
University of California
Irvine, California 92717

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

POSTDOCTORAL POSITION VASCULAR SMOOTH MUSCLE IN HYPERTENSION

Position available immediately to study the effects of hypertension on single smooth muscle cell contractile properties. Interest in mechanics or contractile protein analysis and regulation of contractile and cytoskeletal protein synthesis is desired. Application of cell biophysical and biological techniques are emphasized. Send curriculum vitae and names of three references to: **Dr. David Warshaw, Physiology and Biophysics, University of Vermont, Burlington, Vt. 05405.**

An Equal Opportunity Employer

POSTDOCTORAL POSITION available to study DNA repair in *Escherichia coli*, mouse and man. Experience in enzymology and/or recombinant DNA is essential. Very competitive environment. Send applications to: **Dr. Aziz Sancar, University of North Carolina, Department of Biochemistry 231H, Chapel Hill, N.C. 27514. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION. Molecular biologist or biochemist to study cell ploidy and molecular mechanisms of growth control and mutagenesis in vascular cells. Experience working with vascular tissue preferred. Send curriculum vitae and three letters of recommendation to: **Dr. Eliot Rosen, Joint Center for Radiation Therapy, Harvard Medical School, 50 Binney Street, Boston, Mass. 02115. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately for in vitro studies of protein-DNA complexes (helicases and SSB) involved in replication and recombination. Experience in biochemical and physical analyses of proteins and DNA is necessary; recombinant DNA techniques can be learned. Send curriculum vitae and names of three references to: **T. M. Lohman, Department of Biochemistry and Biophysics, Texas A&M University, College Station, Tex. 77843.**

PROTEIN CHEMIST. Available immediately. Ph.D. with minimum of 3 years of experience in purification of proteins to homogeneity. Practical knowledge of multiple techniques required; RIA helpful. Résumé to: **BioGrowth, 505 Ortega Street, San Francisco, Calif. 94122, with names and address of three references.**

POSITIONS OPEN

POSTDOCTORAL POSITION UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY

Postdoctoral position available immediately for 2 years (with the possibility of extension) to study the role and regulation of adrenergic receptors in rat kidney. Current experiments focus on radioligand binding and receptor-cyclase coupling in isolated glomeruli and tubules. Past experience in these areas not necessary. Experience with some kidney related techniques such as brush border and basolateral membrane isolation, glomerular cell culture or renin activity measurements will be helpful. Send curriculum vitae to: **P. R. Sundaresan, M.D., Ph.D., Department of Pharmacology, University of Rochester Medical Center, Rochester, New York 14642.**

Equal Opportunity Employer, M/F

POSTDOCTORAL POSITION available immediately for a Ph.D. in chemistry or biochemistry to perform biochemical studies to elucidate the molecular mechanism and metabolic consequences of the interaction between the microsome cytochrome P-450 and cytochrome b₅ electron transport chains. Send résumé and three letters of recommendation to: **Dr. L. Waskell (129), VA Medical Center, 4150 Clement Street, San Francisco, Calif. 94121.**

POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY: (i) Development of computer software for UNIX systems in the area of molecular modeling, molecular evolution or RNA secondary structure, and (ii) investigation of the structure of native RNP containing specific mRNA or mRNA precursors using a combination of biochemical and computer modeling techniques. Send curriculum vitae, reprints, and three letters of reference to: **Dr. Charles Lawrence, Department of Cell Biology, Baylor College of Medicine, One Baylor Plaza, Houston, Tex. 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE. Two positions available to study: (i) the developmental regulation of embryonic calcium binding protein and collagen genes, and (ii) the role of gap junctional communication in segmentation/pattern formation processes during *Drosophila* embryogenesis. Please send résumé and three letters of reference to: **Dr. R. Tuan (first position) and Dr. C. Lo (second position) at: Biology Department/G5, University of Pennsylvania, Philadelphia, Pa. 19104. Telephone: 215-898-7132/8394.**

POSTDOCTORAL RESEARCH ASSOCIATE—VIROLOGY

Postdoctoral research associate position available immediately for individual interested in studying gene regulation and growth control in mammalian cells. Previous experience with protein and nucleic acid biochemistry and/or DNA cloning is desirable. Send curriculum vitae and three letters of recommendation to: **Dr. James R. Smith, Department of Virology and Epidemiology, Baylor College of Medicine, One Baylor Plaza, Houston, Texas 77030.**

POSTDOCTORAL RESEARCH ASSOCIATE available immediately to study control of prolactin secretion. Position requires background in endocrinology with cell, molecular, or neurophysiological emphasis. Expertise in protein or peptide purification desirable. Please send curriculum vitae, a brief statement of technical abilities, and names of three references to: **Dr. Marc E. Freeman, Department of Biological Science, Florida State University, Tallahassee, Florida 32306.**

RESEARCH SCIENTIST, CELLULAR BIOPHYSICS

Massachusetts Institute of Technology (MIT), Laboratory for Electromagnetic and Electronic Systems position responsible for setting up of instruments of single cell electrical recording and real-time video microfluorimetry. Will perform and direct experiments related to use of these techniques in sterile cell culture preparations. Will assist in direction of research related to the study of electrical fields on living cells. Ph.D. or equivalent degree in quantitative physiology or biophysical science with experience in cell culture and intracellular electrical recording required. Refer to position Number R85-796. Submit résumé and two letters of reference to: **Ken Chin, MIT Personnel Office, E19-239, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass. 02139. MIT is an Equal Opportunity/Affirmative Action Employer.**

VISITING SCIENTIST

LYMPHOKINE RESEARCH

Conduct innovative basic research on lymphokine receptor action at Du Pont's Glenolden Laboratory in Pennsylvania. The postdoctoral visiting scientist we seek will possess a Ph.D. in Immunology or Biochemistry with experience in membrane receptors and liposome technologies. This one year assignment, in the Immunoregulation and Lymphokine Research Unit of our Central Research and Development Department, is renewable for a second year upon mutual agreement.

At the world renowned Du Pont Company, you'll find a highly stimulating scientific environment in addition to an excellent salary. To be considered, please send resume, bibliography and references to:



**Dr. Richard Robb, R.205,
Glenolden Laboratory,
E.I. Du Pont de Nemours
& Company,
500 S. Ridgeway Avenue,
Glenolden, PA 19036.**

An Equal Opportunity Employer M/F

Research Assistants/ Associates

Plant Genetic Engineering Plant Tissue Culture

Agracetus, a joint venture of Cetus Corporation and W.R. Grace & Co., is a leader in the application of biotechnology to agriculture. We are developing genetically engineered plants which will increase the vigor and yield of major field crops. To continue to meet our challenges, we seek innovative and self-motivated individuals to join our interdisciplinary research group. Positions require individuals with B.S. or M.S. degrees. Previous laboratory experience is necessary in one of the following areas: cell biology, molecular biology, tissue culture, or microbiology.

We offer a competitive salary, a comprehensive benefits package, and advancement opportunity. Please send your detailed resume to: **Personnel Department, Agracetus, 8520 University Green, Middleton, WI 53562.** We are an Equal Opportunity Employer.

Agracetus

CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS

Applications Invited

The American Associations for the Advancement of Science (AAAS) invites applications for two 1-year Congressional Science and Engineering Fellowships it will offer for the period beginning 1 September 1986. The Fellowship Program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policy-making processes within the Congress for approximately 1 year. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological, or behavioral science or any field of engineering. The term "science" is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 25 others are given by other participating professional societies. The AAAS runs a year-long educational program for the set of Congressional Science and Engineering Fellows. Addresses of all participating societies are available from the address listed below.

The 1986-1987 AAAS Congressional Science and Engineering Fellows will receive a stipend of \$26,500; an additional \$1,500 is available for relocation expenses and travel in connection with the Program.

In order to obtain detailed information on the program and specific application requirements, write:

**Congressional Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW
Washington, D.C. 20005**

The deadline for application is 15 January 1986. The award will be announced around 1 May 1986.

SCIENCE, ENGINEERING AND DIPLOMACY FELLOWSHIP Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the Agency for International Development (AID) and the Department of State (STATE), is seeking applicants for two or more Science, Engineering and Diplomacy Fellowships. Fellows will spend 1 year, beginning 1 September 1986, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the Department of State or in one of the bureaus of the Agency for International Development. Other assignments may also be possible.

Prospective fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work on scientific and technical subjects in international affairs: foreign policy for STATE and international development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: food and agriculture; health and population; nuclear nonproliferation; scientific exchange; forestry, natural resources and ecology; oceans and fisheries; communications; national security; and nutrition, among others.

The fellows will serve a 1-year appointment at a salary consistent with education level and experience, if possible, but not exceeding, in the case of STATE, the GS-12 level (beginning at \$31,600). A security clearance process will be initiated after selection. The clearance must be obtained before a selectee can begin work in the State Department or AID, and the fellowship award is contingent upon the selectee obtaining this clearance.

Deadline for receipt of applications is 15 January 1986. For more information and application details, write:

**Science, Engineering and Diplomacy Fellows Program
American Association for the Advancement of Science
1333 H Street, NW
Washington, D.C. 20005**

SENIOR CHEMIST/SENIOR CHEMICAL ENGINEER
Argonne National Laboratory

The Energy and Environmental Systems Division of Argonne National Laboratory is seeking an experienced, Ph.D.-level Senior Chemist or Senior Chemical Engineer. In addition to possessing highly developed expertise in Chemistry or Chemical Engineering, qualified applicants will possess nationally recognized research achievement in one or more of the following areas of energy and environmental technology research and development: advanced power systems and energy conversion devices; fuel-efficient combustion in furnaces; hazardous waste control technology; catalysts for fuels production; energy-related biotechnology and separation processes; and photochemistry and photovoltaics. Demonstrated ability to initiate and conduct original, high-quality research is essential. Experience in research administration, including the ability to motivate and lead other professional staff, is necessary. Strong written and oral communication skills and the ability to communicate effectively with individuals in other disciplines are required. In addition to possessing a strong and diversified applied science background, the successful candidate must have a strong, sustained record of technical publications.

The person who fills this position will have senior line management responsibility for new and ongoing research programs in the areas described above. The individual filling this position will report to the Director of the Energy and Environmental Systems Division. The position carries with it an appointment to the Senior Staff of the Laboratory.

We offer comprehensive benefits and an excellent salary commensurate with your background. For prompt consideration, send resume and qualifications to **Rosalie L. Bottino, Box J-EES-24970-55, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Illinois 60439.** An Affirmative Action/Equal Opportunity Employer M/F.

**NIOSH
ANNOUNCES
RESEARCH
AWARDS FOR
PH.D. & M.D.
SCIENTISTS!**



The National Institute for Occupational Safety and Health announces outstanding opportunities for research in

- applied psychology • ergonomics
- bioacoustics • health physics

The National Research Council in cooperation with the National Institute for Occupational Safety and Health, Division of Biomedical and Behavioral Sciences in Cincinnati, Ohio will offer competitive research awards in 1986 for independent scientific research. Recipients will be free to work on problems of their own choice as guest investigators at NIOSH. This program is open to experienced senior scientists as well as to recent PhD and MD graduates. Stipends begin at \$26,350 for recent graduates and are appropriately higher for seniors. Relocation reimbursement and funds for professional travel on tenure are available, and a health insurance program is offered.

For further information and application materials please write to:

Associateship Programs (JH608/NI-2)
National Research Council
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

1986 Deadlines for application are
January 15, April 15 and August 15.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE

Postdoctoral or research associate position available at the University of Colorado School of Medicine in Denver. The successful candidate will perform research in neuromagnetic and EEG correlates of human brain function. Experience with electrophysiology and ERPs desirable. Send curriculum vitae and names of three references to: **Martin Reite, M.D., Box C268, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, Colo. 80262.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for M.D. or Ph.D. to study steroid hormone receptors in mammalian and simple systems. Experience with protein purification, monoclonal antibody production, and molecular biology desirable. Send curriculum vitae and three letters of recommendation to:

Dr. David Feldman, Department of Medicine
Stanford University School of Medicine
Stanford, California 94305
An Equal Opportunity Employer

POSTDOCTORAL/RESEARCH ASSOCIATE
MOLECULAR GENETICS

Research area is catabolic system regulation in *Pseudomonas*, plasmid cloning, nucleic acid sequencing, transposon mutagenesis. A recent Ph.D. or equivalent with directly relevant experience is highly desired.

Send letter of application, résumé, and three references by 30 November 1985 to: **Chairman, Department of Microbiology, East Carolina University School of Medicine, Greenville, N.C. 27834-4354.**

An Equal Opportunity/Affirmative Action Employer

PROFESSOR AND CHAIRPERSON
DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF MEDICINE AND DENTISTRY
OF NEW JERSEY (UMDNJ)-
RUTGERS MEDICAL SCHOOL

The University of Medicine and Dentistry of New Jersey invites applications and nominations for the position of professor and chairperson of the Department of Biochemistry, available 1 April 1986. Applicants should be energetic and enthusiastic individuals of unusual scientific talent with outstanding research and administrative abilities and a genuine interest in medical and graduate education. We are particularly interested in individuals who employ modern biophysical and/or molecular biological methods to examine fundamentally important biological or biomedical problems. Rutgers Medical School is located in close proximity to Rutgers University in a semirural area of central New Jersey near Princeton, one hour from New York City and 90 minutes from Philadelphia. The chairperson will have the opportunity to recruit a substantial number of tenure-track faculty members and to interact productively with the adjacent New Jersey Center for Biotechnology and Medicine. Applicants should submit curriculum vitae and the names of three references to: **Dr. N. Ronald Morris, Chairman, Biochemistry Search Committee, Department of Pharmacology, UMDNJ-Rutgers Medical School, Piscataway, N.J. 08854.**

Women and minorities are encouraged to apply. UMDNJ-Rutgers Medical School is an Affirmative Action/Equal Opportunity Employer.

PROJECT OFFICER
Board on Radioactive
Waste Management

The Commission on Physical Sciences, Mathematics and Resources of the National Research Council is seeking an individual to assist the staff director in planning, arrangement, conduct, and documentation of activities of the Board on Radioactive Waste Management. Requires master's degree or equivalent (Ph.D. preferred) in physics, nuclear engineering, or geoscience; minimum of 4 years of experience in radioactive waste management or a related field (experience with any phase of nuclear radiation helpful); demonstrated oral and written communication skills, organizational skills, and administrative skills. Please send résumé and salary history to:

National Research Council
(BRWM) P.O. Box 57140
Washington, D.C. 20037

Equal Opportunity Employer

POSITIONS OPEN

PSYCHOBIOLOGIST

The Department of Psychology at The University of Michigan is seeking authorization for a tenure-track assistant professor position in psychobiology beginning September 1986. Area of concentration is open, but candidates should be pursuing research with animal or human subjects, which integrates biological and behavioral approaches. Postdoctoral experience is desirable. Send curriculum vitae, recent reprints, courses qualified to teach, and letters of recommendation to: **Professor Elliot S. Valenstein, The University of Michigan, Neuroscience Laboratory Building, 1103 East Huron Street, Ann Arbor, Mich. 48104-1687.** A nondiscriminatory, Affirmative Action Employer.

RESEARCH ASSOCIATE—Conduct research in experimental gastroenterology as related to ulcer disease, with special emphasis on microcirculation. Will study the mechanisms of injury, defense, and repair of the gastrointestinal mucosa in the upper digestive tract. Requirements include M.D. or Ph.D. in physiology or related field; and 2 years of research experience in the above areas; strong background in physiology and pharmacology of the digestive tract, proficiency in electrophysiologic and light microscopy techniques and equipment required to study the microcirculation of the digestive tract, and knowledge and experience in basic protein chemistry. Salary: \$18,000 per year; 40 hours per week. Respond with résumé only to: **Job Order Number 5969, Division of Employment Security, Government Center, Boston, Mass. 02114.**

RESEARCH ASSOCIATE position available in Department of Nuclear Medicine, State University of New York, Buffalo, to prepare organic molecules for labeling with Tc-99m and I-123 [*J. Med. Chem.* 28, 1280 (1985)]. Prefer Ph.D. synthetic organic or medicinal chemist with strong interest in interdisciplinary research. Send résumé to: **Dr. Hank Kung, Building 5, VA Medical Center, 3495 Bailey Avenue, Buffalo, N.Y. 14215.**

RESEARCH ASSOCIATE IN
BIOCHEMICAL TOXICOLOGY

To participate in an active 2-year research program studying the effects of various substances on gluconeogenesis in freshly isolated hepatocytes. Candidates should have interest in toxicology with experience in biochemical assay techniques for gluconeogenic enzymes and glucose. Experience with hepatocyte isolation and animal experimentation desirable, but not required. Competitive salary and fringe benefits. Send curriculum vitae and three letters of recommendation to: **Dr. J. L. Early, Florida A&M University, College of Pharmacy and Pharmaceutical Sciences, Tallahassee, Florida 32307.** Florida A&M University is an Equal Opportunity Institution.

THEORETICAL POPULATION BIOLOGIST

The Department of Ecology, Ethology, and Evolution, University of Illinois at Urbana-Champaign, invites applications for this full-time, tenure-track position. Requirements include a strong background in quantitative methods and a strong commitment to development of an active teaching and research program employing empirical as well as theoretical techniques. The specific area of expertise is open; individuals with experience in the application of molecular genetic techniques are encouraged to apply. The appointment will be at the level of assistant or associate professor; salary will be commensurate with qualifications. Applicants must have completed the Ph.D. degree before the starting date on 21 August 1986. To assure full consideration, application materials must be received by 31 December 1985. Applicants should forward full curriculum vitae and a letter of application describing research and teaching interests and request that three letters of recommendation be sent to:

Michael Lynch, Chair
Population Biology Search Committee
Department of Ecology, Ethology, and Evolution
515 Morrill Hall
505 South Goodwin Avenue
Urbana, Ill. 61801
Telephone: 217-333-7802

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

POSITIONS OPEN

RESEARCH ASSOCIATE. Perform synthesis of compounds as reactivators for inhibited acetylcholinesterase. Synthesis of medicinally important and highly toxic natural products, especially alkaloids. Carry out research in organic synthesis using hypervalent chemicals and intermediates. Must know how to use dri-lab and know how to operate HPLC, GC, NMR, ultraviolet, and infra-red spectrometers, 34 to 40 hours per week, research position at university; \$22,000 per year. Must have Ph.D. in chemistry and 1 year of experience in the offered position. Send résumés to: Illinois Job Service, 910 South Michigan Avenue, Room 333, Chicago, Ill. 60605; Attention: Joan Sykstus, Reference Number 5091-T. An employer-paid ad.

RESEARCH ASSOCIATES IN PHARMACOLOGY AND MEDICINAL CHEMISTRY

To participate in an active research program on new corticosteroids. We seek a pharmacologist to study mode of action and metabolism of new anti-inflammatory steroids and a chemist with experience in the synthesis of drugs and instrumental analysis. Send curriculum vitae and two letters of recommendation to: Dr. H. J. Lee, Center for Anti-Inflammatory Research, College of Pharmacy, Florida A&M University, Tallahassee, Florida 32307.

SCIENTIFIC DIRECTOR—The American Red Cross Blood Services, Northwest Ohio Region, invites applications to establish/direct tissue preservation laboratory. Ph.D. in biological science required, with experience in cryopreservation of tissues, organs. Potential ability to secure grants essential. Faculty appointment at local medical school/university encouraged. Send curriculum vitae to: American Red Cross, 2275 Collingwood Boulevard, Toledo, Ohio 43620. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE position, University of South Carolina. A 1-year position beginning anytime after 1 September 1986 with research emphasis on stable isotope geochemistry applied to paleoceanography, carbonate diagenesis, or biogeochemical processes. Applicant should possess a Ph.D. in geology, chemistry, or oceanography and have the ability to establish his/her own research program as well as interface with ongoing research in the Department of Geology or Marine Science Program. A clear statement of research goals and three references should be sent to:

Dr. Douglas F. Williams
Department of Geology and Belle
Baruch Institute for Marine
Biology and Coastal Research
University of South Carolina
Columbia, S.C. 29208

The University of South Carolina is an Affirmative Action/Equal Opportunity Employer. Deadline: 1 December 1985.

RESEARCH ASSOCIATE—Position available immediately for a biochemist/organic chemist to lead a research team in clinical carcinogenesis. The project involves the investigation of the interaction of nitrosamines with DNA in hybrid mice. Ph.D. graduate with experience in HPLC and immunoassays required. Salary negotiable: Send curriculum vitae and names of three references to: Dr. G. D. Stoner, Department of Pathology, Medical College of Ohio, C.S. 10008, Toledo, Ohio 43699. *An Equal Opportunity Employer.*

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW. Molecular biology of transmembrane processes: receptors, ion channels, and their coupling mechanisms. Strong background in DNA recombinant technology, membrane protein biochemistry, and/or molecular genetics required. *Need to be U.S. citizen or permanent resident.* Send curriculum vitae, description of research interests, and names of three references to: Dr. Lutz Birnbaumer, Department of Cell Biology, 1 Baylor Plaza, Baylor College of Medicine, Houston, Tex. 77030.

POSITIONS OPEN

RESEARCH SCIENTIST. Require Ph.D. in biochemistry and 2 years of experience in areas of peptide hormone receptor purification, monoclonal antibody preparation and development of non-isotopic immunoassays, to supervise laboratory and develop program for automation. Must have experience in physiology and endocrinology of peptide hormones and with automated technology systems and computers. Full-time position; \$29,785.60 per year. Mail or hand carry résumé with copy of ad attached to: Virginia Employment Commission, Department 2, 8000 Lee Highway, Falls Church, Virginia 22042; Job Order Number VA5553919.

RESEARCH SCIENTIST, VIROLOGY. To engage in research with respect to the antiviral activity of intravenous gamma globulin. Develop DNA hybridization methods to ensure that monoclonal antibodies do not contain infectious Epstein-Barr virus (EBV), or EBV DNA (deoxyribonucleic acid), and that monoclonal antibody producing cell lines are free of adventitious viruses. Ph.D. in virology plus 3 years of postdoctoral experience with current techniques in viral serology and tissue culture and techniques for characterization of macromolecules and nucleic acid hybridization assays, especially in relation to determining the status of EBV DNA incorporated into chromosomes of monoclonal antibody producing cells. \$35,000 year. Job site: Berkeley, California. Send résumé to: Job Number 2288, P.O. Box 9560, Sacramento, Calif. 95823-0560, no later than 15 November 1985. *Equal Opportunity Employer through Affirmative Action.*

NEW CENTER FOR TISSUE CULTURE AND HYBRIDOMA RESEARCH

Position open for a qualified applicant with extensive experience in tissue culture techniques to help coordinate activities in a center shortly to be established through partial NIH support. Applicants must have a Ph.D. degree or equivalent experience. For consideration, send résumé and three letters of reference to: A. M. Scanu, Lipoprotein Study Unit, University of Chicago, 5841 Maryland, Box 231, Chicago, Ill. 60637. For information, telephone: 312-962-1775. *An Equal Opportunity Employer.*

Clinical Research Scientists

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking Clinical Research Scientists to join our new Clinical Research Unit located in suburban Philadelphia. These individuals will be responsible for protocol writing, clinical trials planning and data analysis and report writing. They will also provide technical and scientific expertise to staff physicians. These positions offer diverse responsibilities and good career visibility for the candidate with strong administrative and interpersonal skills.

Successful candidates will have a Ph.D. in pharmacology or related field with specialization in cardiovascular disease, hematology/oncology, molecular biology or immunology. They will also possess three to five years post-doctoral experience (1-2 years clinical trials experience preferred). Supervisory experience is helpful but not essential. Demonstrable skill in written and oral communication of scientific data as well as significant skill in employing fourth generation computer programming tools are highly desired.

We offer excellent compensation and benefits programs and a stimulating work atmosphere in a technologically advanced environment. Interested and qualified candidates should send C.V. with salary requirements to: Mary O'Neill, Manager, Personnel Relations, S K & F Laboratories, 1566 Spring Garden Street, Philadelphia 19101. We are an equal opportunity employer, M/F/H/V.

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BIOLOGICAL RESEARCH ASSOCIATE

This technical assistant position in our neuroscience research program requires a BS or MS in a biological science, with experience in receptor autoradiography and computer programming. Additional experience in radioligand binding or immunohistochemistry is preferred.

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POSITIONS OPEN

RESEARCH INVESTIGATOR position available to characterize neurotransmitter receptors, investigate acetylcholine biosynthetic mechanisms, and analyze structure activity relationships of pharmacologic agents. A Ph.D. in biochemistry, training in neurochemistry or neuropharmacology, and publications in peer-reviewed journals are required. The applicant should have expertise in receptor-ligand binding techniques, isolation and use of synaptosomes for the study of neurotransmitter metabolism, enzyme purification, radioimmunoassay, stereotactic techniques for surgical and physiological procedures in the rat brain and microdissection of brain tissue. Salary: \$19,680 per year; 40 hours per week. Send curriculum vitae and three letters of reference to: **Iowa Job Service, 1810 Lower Muscatine Road, Iowa City, Iowa 52242. Job Order Number 1574487.** This is an employer-paid ad. *An Equal Opportunity/Affirmative Action Employer.*

DISTINGUISHED RESEARCH PROFESSORSHIP AND CELLULAR AND MOLECULAR BIOLOGY POSITIONS

The Biochemistry and Microbiology Departments of Michigan State University have tenured faculty positions jointly open with the Michigan Biotechnology Institute. Rank, salary, research support, and other incentives are commensurate with qualifications. Applicants should have demonstrated ability in applying molecular genetic techniques in microbial systems to one or more of the following areas: enzyme function and design; protein secretion and production; metabolite regulation and production, gene function and expression; and renewable resource biotechnology. A strong interest in applications research of biotechnology is expected. Teaching is limited to graduate training in biotechnology. Applicants with outstanding credentials and an active research program are encouraged to apply. The positions offer the excitement of sharing in both the understanding and rewards of developing new technology. *Michigan State University and the Michigan Biotechnology Institute are Affirmative Action/Equal Opportunity Employers and welcome applications from women and members of minority groups.* Apply in writing to:

Jack Preiss, Chairperson
Biotechnology Search and Selection Committee
Department of Biochemistry, Room 210
Michigan State University
East Lansing, Michigan 48824-1226

Include curriculum vitae and list three references. Applications are requested by 15 January 1986, but will be accepted as long as necessary to fill the position.

RESEARCH SCIENTIST (physical scientist or biologist) in the Career Federal Service, U.S. Department of Agriculture (USDA), Agricultural Research Service, Model and Database Laboratory, Beltsville, Maryland, is seeking a researcher to initiate, plan, and conduct investigations in the area of models, databases, and expert systems in agriculture. Must have a degree in chemistry, biochemistry, biology, or physics or related field or equivalent education and experience. Ph.D. is desirable. Must be U.S. citizen. Salary commensurate with experience (\$31,619 to \$37,599 per annum). Telephone: **Dr. Stephen Heller** for position information on **301-344-1709**. Send appropriate application and transcript to: **Rose Cunningham (or telephone 301-344-3954)** at: USDA, Agricultural Research Service, Personnel Operations Branch, Room 107, Building 003, BARC-West, Beltsville, Maryland 20705. Applications in response to this advertisement should be marked **5E022**. Deadline for receipt of application is **15 November 1985**. *An Equal Opportunity Employer.*

DEPARTMENT OF BIOLOGY

ZOOLOGIST: Tenure-track appointment in the Department of Biology, Semester I, 1986-1987. Responsibilities include teaching undergraduate laboratory and field zoology courses to biology majors and general education courses to nonmajors. A commitment to directing undergraduate research is desirable. The doctorate with emphasis on invertebrates and full-time teaching experience are required.

Applicants should submit curriculum vitae and the names, addresses, and telephone numbers of three references to: **R. D. Reed, Co-Chairperson of Search Committee, Department of Biology, Shippensburg University, Shippensburg, Pa. 17257.** Application deadline: 1 December 1985.

Shippensburg University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SENIOR ANALYST/PROJECT DIRECTOR

Technical support agency, U.S. Congress, as member of a multidisciplinary program addressing technologies and policies that affect the ability of U.S. manufacturing industries to compete internationally. The program is looking for a person who can bring to bear a systems view of manufacturing on questions of competitiveness, that is, a view that integrates technology with the skills and motivation of the work force. The applicant should have an advanced degree, and several years of experience in engineering, engineering management, work organization design, or the analysis of industrial competitiveness. Broad knowledge of engineering, technology, and industry essential. Experience in manufacturing desirable. Excellent writing and communication skills needed; proven ability to organize complex project and procedure results within schedule and budget is required. Ability to examine technology in a context of public policy is desirable. Employment may be on a contract basis or permanent staff basis. Salary is negotiable based on previous experience. Location is in Washington, D.C. Send résumé, salary history, and names of three references to: **Denise DeSanctis, Office of Technology Assessment, U.S. Congress, Washington, D.C. 20510.**

Equal Opportunity Employer

A **SENIOR LEVEL SCIENTIST** with more than 3 years of industrial experience in EIA and ELISA product development in areas of infectious diseases and tumour diagnostics. Excellent benefits. Send résumé to: **Janet Moore, NMS Pharmaceuticals, Inc., 1533 Monrovia Avenue, Newport Beach, Calif. 92663.**

AWARDS

MEYER ARTHRITIS INVESTIGATOR AWARD. The Southern California Chapter of the Arthritis Foundation will offer the George L. N. and Edna F. Meyer Arthritis Investigator Award to an outstanding new investigator (M.D. and/or Ph.D.) conducting research in the rheumatic diseases. The award, in the amount of \$30,000, will be made for 1 year beginning 1 July 1986. Research conducted during the award period must be done in the Southern California Chapter area or may be done by a Southern California investigator in another area provided he/she returns to Southern California. Deadline is **6 January 1986**. For applications, write: **Arthritis Foundation, Medical and Education Department, 4311 Wilshire Boulevard, Los Angeles, California 90010; or telephone: 213-938-6111.**

FELLOWSHIPS

U.S.-ISRAEL FELLOWSHIP PROGRAM—BARD—The United States-Israel Agricultural Research and Development Fund announces the initiation of a binational postdoctoral fellowship program promoting cooperative agricultural research between postdoctorates from the United States and scientists from Israel and vice versa. Grant applicants should be citizens of either the United States or Israel, should have fulfilled the requirements for a Ph.D. within the last 3 years (postdoctorates), and should have no other sources of support. The deadline for applications is 31 December of each year. For information on application procedures, contact: **Yair Guron, Executive Director at either: BARD, P.O. Box 6, Bet Dagan 50250, Israel, or BARD, U.S. Department of Agriculture, Building 005, BARC-West, Beltsville, Md. 20705.**

FELLOWSHIP OPPORTUNITIES American Museum of Natural History

The American Museum of Natural History announces a limited number of resident **RESEARCH/MUSEUM FELLOWSHIPS** available to postdoctoral researchers and established scholars starting in summer and fall 1986. Areas include vertebrate and invertebrate zoology, paleozoology, anthropology, mineral sciences, and the field of museum education as it relates to natural history museums or planetariums. Deadline for applications, including Chapman Fellowships (ornithology), is 15 January. Request information booklet and application from: **Office of Grants and Fellowships, AMERICAN MUSEUM OF NATURAL HISTORY, Central Park West at 79 Street, New York, New York 10024.** *An Equal Opportunity/Affirmative Action Institution, M/F/H.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN MOLECULAR BIOLOGY AND IMMUNOLOGY OF PARASITIC DISEASE

Opportunity to participate in an aggressive, NIH-funded research program examining the molecular biology and immunology of African *trypanosomiasis*. Participation in the new Center for Research and Training in Parasitic Diseases also possible. Qualifications include the Ph.D. degree with background and training in molecular biology and/or immunology. Position open immediately. Send curriculum vitae and three letters of recommendation to: **Dr. John M. Mansfield, Department of Veterinary Science, 1655 Linden Drive, University of Wisconsin, Madison, Wisconsin 53706.** *The University of Wisconsin is an Equal Opportunity Employer functioning under an Affirmative Action plan.*

FELLOWSHIPS

Research applications from women in one of the mathematical, physical, or biological sciences are being accepted. Appointments will be made regardless of race, nationality, creed, or marital status.

Grants in Aid: \$750 for students in a degree program. Deadline: 1 February 1986.

Eloise Gerry Fellowships: \$1,500 to \$4,000 for post-degree research. Deadline: 1 December 1985.

For further information:

Sigma Delta Epsilon
Graduate Women in Science, Inc.
9650 Rockville Pike
Bethesda, Md. 20814
Telephone: 301-530-7017

POSTDOCTORAL FELLOWSHIPS—You'll be involved in vivo and vitro work on growth factors, bone, and molecular genetics. Interested applicants with experience in physiology of somatomedins, receptor interactions, working with small animals, osteoporosis, or recombinant DNA are encouraged to apply. Salary will be paid according to NIH scale. Please send curriculum vitae, brief description or research interests, and three letters of recommendation to: **E. Martin Spencer, M.D., Ph.D., Director, Laboratory of Growth and Development, Children's Hospital of San Francisco, 3700 California Street, San Francisco, Calif. 94118.** *We are an Equal Opportunity Employer.*

CALL FOR ABSTRACTS

CALL FOR ABSTRACTS

29th Annual Aspen Lung Conference
Molecular and Cellular Biology of Lung Cancer
11 to 14 June 1986, Aspen, Colorado
Deadline for receipt of abstracts: 1 February 1986. For information, contact: **Dr. Charles Scoggins, Eleanor Roosevelt Institute for Cancer Research, Box B129, 4200 East 9 Avenue, Denver, Colo. 80262.** Sponsored jointly by: Eleanor Roosevelt Institute for Cancer Research, Webb-Waring Lung Institute, and the American Lung Association of Colorado.

GRADUATE STUDY

NEUROSCIENCES AT

BAYLOR COLLEGE OF MEDICINE

Baylor College of Medicine offers an interdepartmental Neuroscience Program for students interested in advanced study leading to the Ph.D. in neuroscience. Applications must be completed by 1 April 1986, and applicants will be notified regarding admissions and financial support by 15 May 1986. Information regarding the program curriculum, faculty, research opportunities, and application procedures may be obtained from: **Scott F. Basinger, Ph.D., Director of Graduate Studies, Program in Neuroscience, Baylor College of Medicine, NSC 200, One Baylor Plaza, Houston, Texas 77030.**

GRADUATE STUDY IN MOLECULAR BIOLOGY and BIOCHEMISTRY at Oregon Graduate Center. Research programs in microbial and plant enzymology and physiology, cloning and characterization of fungal and plant genes, plant tissue culture, mechanisms of plant hormone action, fungal and plant genetics and biochemistry, extracellular enzymes, structure and function of heme enzymes, lignin biosynthesis, and biodegradation. Research assistantships of \$8600 with remission of tuition for qualified Ph.D. applicants. Write: **Chairman, Department of Chemical, Biological, and Environmental Sciences, Oregon Graduate Center, 19600 Northwest Von Neumann, Beaverton, Ore. 97006.** *Affirmative Action/Equal Opportunity Employer.*

PHD SCIENTISTS & ENGINEERS! APPLY FOR RESEARCH AWARDS!

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The National Research Council in cooperation with selected federal laboratories will offer approximately 350 awards in 1986 for independent scientific research. Recipients will be free to work on problems of their own choice as guest investigators at the participating federal laboratories. Many of the 25 programs are open to experienced senior scientists as well as to recent PhD's. Stipends begin at \$26,350 for recent graduates and are appropriately higher for seniors. Relocation reimbursement and funds for professional travel on tenure are available, and a health insurance program is offered.

For further information and application materials please write to:

Associateship Programs (JH608/S-4)

National Research Council

2101 Constitution Avenue, N.W.
Washington, D.C. 20418

Deadlines for application are January 15,
April 15 and August 15.

INDUSTRIAL MICROBIOLOGIST

Biogen Research Corporation is seeking an Industrial Microbiologist to supervise fermentation operations on laboratory and pilot-plant scales.

The successful candidate will have a Master's Degree in Microbiology and will have worked with microorganisms in the laboratory and pilot plant. Experience in handling organisms derived from rDNA technology would be highly desirable.

Duties will include the supervision of junior staff and will require interactions with Biochemical Engineers and Protein Chemists.

The position is located at the corporation's research center in Cambridge and offers the opportunity to become part of a small but expanding group committed to developing process technology for the production and purification of proteins.

Biogen offers an excellent compensation and benefits package. Interested candidates should forward their resume to: Manager of Human Resources, Biogen, Dept. IM-6, 14 Cambridge Center, Cambridge, MA 02142. An equal opportunity employer.

BIOGEN

Mandarin speaking Earth Scientist

British Petroleum is a multi-national oil company currently exploring for oil and gas in the People's Republic of China as part of a worldwide exploration programme. We require a Mandarin speaking earth scientist to join our exploration department.

Apart from our main office of more than 100 staff based in Guangzhou, we also have representative offices in Beijing, Shanghai and Zhanjiang. However, you will be expected to travel extensively within China, meeting with a range of Chinese earth scientists including petroleum explorers. Fluency in spoken and written Chinese and English is therefore essential.

Ability as an earth scientist is more important than your field of specialization, but you will be expected to learn the essence of petroleum geology quickly.

This post will be offered on a 2 year contract. Salary will depend on qualifications and

experience, but will not be less than \$35,000US per annum and PRC tax will be paid by the company. Terms and conditions will also include full accommodation and a generous leave entitlement with travelling allowances to enable frequent return to home base country.

Interested applicants should send a handwritten letter explaining why they are suitable for this position to:

**Manager, Personnel and Administration,
BP Petroleum Development Ltd., China,
PO Box 509,
Guangzhou,
People's Republic of China.**

Applications should also include a recent photograph and resume providing full details of personal history, qualifications, work experience and current and expected salary.

Interviews will be held in London, Hong Kong or San Francisco.



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