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Research	
Scientists	

STL offers opportunities for Scientists and Research Engineers with advanced degrees who desire an environment that stimulates independent research in the field of solid state physics, radiation damage, mechanical properties, high temperature materials, high vacuum techniques and optical properties.

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STL is an expanding organization with a professional staff of more than 1,700 scientists and engineers engaged in advanced space and missile programs.

Resumes directed to Dr. R. C. Potter, Manager of Professional Placement, will be treated in confidence and will receive immediate attention.

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Alexandria, Virginia

ARC is an expanding technical R&D-for-profit firm, with headquarters in the National Capital area, whose technical interests and capabilities run the gamut from basic work in solid state physics to production of piezoelectric transducers; combustion research through shelf-item solid propellant rockets; and structural and chemical studies of polymers to development of foamed-in-place plastics.

The range of technical disciplines is sometimes broadened through new organizational acquisition, but is always strengthened by the addition of well-grounded, versatile scientists and engineers. Our Electromechanical Division now needs an

experimental physicists

for applied research and development in acoustics, rheology, solid state, shock, vibration, and high atmosphere experimentation. Requires ability to plan, promote and execute physical research programs, a Ph.D. in physics, and recognized accomplishments in one of the above listed physical fields.

If you qualify and are interested, send a resume of your academic and professional experience, age, salary needs, and professional references to:

Clarence H. Weissenstein, Director, (PT)
Technical Personnel Recruitment

ATLANTIC RESEARCH CORPORATION

Alexandria, Virginia

(In the suburbs of the Nation's Capital)

Wheaton College, Norton, Mass. (B. H. Jennings)
Worcester Polytechnic Institute, Worcester, Mass. (A. E. Parker)
Michigan State University, East Lansing (S. K. Haynes)
Wayne State University, Detroit, Mich. (H. V. Bohm)
Western Michigan University, Kalamazoo (P. Rood)
Saint Olaf College, Northfield, Minn. (F. E. Christensen)
University of Missouri School of Mines and Metallurgy, Rolla (H. Q. Fuller)
Saint Louis University, St. Louis, Mo. (A. G. Rouse)
Dartmouth College, Hanover, N. H. (W. P. Davis, Jr.)
New Mexico Institute of Mining and Technology, Socorro (W. Hume)
Adelphi College, Garden City, N. Y. (Joan Brooks)
Colgate University, Hamilton, N. Y. (R. J. Myers)
Fordham University, New York, N. Y. (Rev. C. C. Schubert)
New York University, New York 3 (L. Yarmus)
Polytechnic Institute of Brooklyn, Brooklyn, N. Y. (J. J. Dropkin)
Rensselaer Polytechnic Institute, Troy, N. Y. (S. E. Wiberley)
Western Reserve University, Cleveland, Ohio (B. L. Robinson)
Linfield College, McMinnville, Ore. (J. A. Day)
University of Oregon, Eugene (J. L. Powell)
Allegheny College, Meadville, Pa. (Georgiana W. Scovill)
Bartol Research Foundation, Swarthmore, Pa. (W. E. Danforth)
Juniata College, Huntingdon, Pa. (B. E. Blaisdell)
Lafayette College, Easton, Pa. (W. Keck)
Fisk University, Nashville, Tenn. (J. R. Lawson)
North Texas State College, Denton (R. C. Sherman)
University of Texas, Austin (R. N. Little)
Utah State University, Logan (R. L. Berger)

Astronomy

San Diego State College, San Diego, Calif. (B. Nelson)
University of Santa Clara, Santa Clara, Calif. (S. Kownacki)
Louisiana State University, Baton Rouge (V. E. Parker)
National Radio Astronomy Observatory, Green Bank, W. Va. (C. M. Wade)

Grants totaling approximately \$366 000 have also been awarded to several colleges and universities by the National Science Foundation for the support of a new series of summer conferences for college teachers of science, mathematics, and engineering. Patterned after the NSF summer institutes for high-school and college teachers, but lasting four weeks or less instead of the four to twelve weeks of the summer institutes, the conferences are designed to give college staff members who must teach during summer terms an opportunity to familiarize themselves with recent advances in specific fields. Participants will receive stipends (up to \$15 per day plus travel allowance) and will pay neither tuition nor fees. Inquiries should be sent as soon as possible to the directors of the individual programs. Among the conferences scheduled for this summer (dates have not been indicated), the following are likely to be of interest to physicists. The names of the directors are included.

Recent Advances in Astro-Geophysics, Rev. M. P. Thekaekara, S.J., Dept. of Physics, Georgetown University, Washington, D. C.
Solid-State Physics, Prof. Elmer L. Offenbacher, Dept. of Physics, Temple University, Philadelphia, Pa.
Nuclear and Electron Spin Resonance, Dr. Wallace S. Brey, Jr., Dept. of Chemistry, University of Florida, Gainesville, Fla.

Aid to Education

On March 13 the Woodrow Wilson National Fellowship Foundation designated 1333 students from 381 colleges and universities in the United States and Canada as Woodrow Wilson Fellows for 1961-62. Chosen from among more than 10 000 nominees, the winners represent the largest number elected by the foundation in its 15-year history. Students in mathematics and the natural sciences account for 15.9 percent of the total. The awards cover the first year of graduate study and are intended to encourage the fellows to consider college teaching as a career.

COMMUNICATIONS SCIENTISTS

Research Positions at **GENERAL DYNAMICS | ELECTRONICS**

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FINITE GROUP THEORY

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PATTERN RECOGNITION

Materials Science

THIN FILMS
MICROWAVE TECHNIQUES

Positions are available at the doctoral level or equivalent. Please write informally to M. J. Downey to arrange an appointment.

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Nominations are made by the students' professors, and candidates are screened by 15 regional committees before the final selection is made. Sir Hugh Taylor, president of the foundation, estimated the total value of this year's awards at \$3 million.

Grants totaling more than \$1.4 million have been awarded to 159 universities and colleges under the Du Pont Company's annual aid-to-education program for 1961-62. The program disburses funds for unrestricted fundamental research in universities, for strengthening science teaching, and for aid in financing new buildings and equipment or the renovation of existing facilities for science education or research.

Radio Corporation of America has awarded sixty-three undergraduate scholarships for the current academic year. The list includes thirty-one RCA Scholarships, ten of which were awarded to physics majors, thirty RCA Science Teacher Scholarships for students preparing to teach science, and two scholarships for graduates of RCA Institutes. Several fellowships for graduate research and study in physics and electrical engineering have also been awarded by RCA. Each includes full tuition, \$2100 for living expenses, and a grant of \$750 to the student's university.

Geophysics Film Series

The National Academy of Sciences has announced the completion of its "Planet Earth" film series. Produced under a grant from the Ford Foundation, the collection includes thirteen 27-minute, 16-mm educational films covering topics in geophysical research which were stressed in connection with the International Geophysical Year. Although inspired by the IGY, the series reviews the development of man's knowledge of the earth since ancient times. Hugh Odishaw of the NAS acted as director of the series, and it was produced by Lothar Wolff of Louis de Rochemont Associates, Inc. The series was issued by the Academy in cooperation with the WGBH Educational Foundation of Cambridge, Mass.

The titles of the films are: (1) The Hidden Earth (seismology); (2) The Shape of the Earth (geodesy); (3) The Force of Gravity; (4) The Inconstant Air (weather and climate); (5) Secrets of the Ice (glaciology); (6) Challenge of the Oceans (oceanography); (7) Our Nearest Star (the sun and solar activity); (8) The Flaming Sky (aurora); (9) Magnetic Force (the earth's magnetic field); (10) Radio Waves (including the ionosphere and radio astronomy); (11) Cosmic Rays; (12) Research by Rockets; and (13) Science in Space (satellite and space probe research).

McGraw-Hill Book Company, Inc., will distribute the films either severally or in sets, both in the United States and abroad, to educational and research institutions at a price of \$80 for black and white prints and \$150 for color prints. The entire series is available for preview at McGraw-Hill Text Films, 330 West 42nd St., New York, N. Y.