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Send Resume to:

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Ball Brothers Research Corporation

Boulder, Colorado

SCIENCE EDUCATION

According to statistics issued by the US Office of Education, the number of bachelor's degrees granted in scientific fields in 1958-59 increased only 8.25% compared to a 9.5% increase the previous year. The rise in the number of bachelor's degrees in all fields was 5.3% in 1958-59. However, there was an increase of 30% in the number of mathematics baccalaureates, and the physical sciences overtook biology by a small margin in the number of degrees granted.

Within the physical sciences classification, chemistry with 7308 graduates retains an approximate two-to-one numerical lead over physics, the next highest group, with 3809. The increase in chemistry bachelors over the corresponding totals for 1957-58, however, amounted to approximately 4%, while the number of bachelor's degrees awarded in physics rose more than 19%. Engineering graduates increased nearly 8% in 1958-59. There were 28 graduates in astronomy. Master's degrees in physics numbered 915 and doctorates 482. Astronomy had 21 masters and 17 doctors.

The Academic-Year Institutes Program of the National Science Foundation will be continued in 1961-62 with the participation of 43 colleges and universities. The program was started five years ago with the aim of helping science teachers improve their subject-matter knowledge through a year's advanced study on a full-time basis, with emphasis placed on the newer developments in science and mathematics. Approximately 1500 secondary-school science teachers and 75 teachers from liberal arts colleges, teachers colleges, and junior colleges will attend the institutes next year. College teachers participating in the program will be chosen from among those who are primarily responsible for the training of prospective science and mathematics teachers in their own institutions.

Twenty-four of the institutes will specifically include training in physics and, of these, three of the six institutes which are to be centered in physics departments will be open to college teachers as well as to high-school teachers. The Foundation has awarded grants totalling \$9.8 million to the 43 participating institutions. These grants provide for individual \$3000 stipends, with additional allowances for dependents, books, and travel.

All requests for information and application forms should be addressed to directors of individual institutes. A complete list of the 1961-62 institutes is available from the National Science Foundation, Washington 25, D. C. The following partial listing includes only those institutes offering physics training. The name and department of the director is given in each case, and



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Members of the Research Department will be attending the Annual Meeting in New York, February 1 through 4 and will discuss professional opportunities at Martin's Denver Division. Among those attending will be:

DR. WILLIAM CLOHESSY

Manager, Research Department

DR. RALPH BOWERSOX

*Chief, Experimental Physics
and others*

MR. DAVID POTTER, Manager of Executive and Scientific Placement, will be conducting initial interviews at the Placement Register in the Convention Hotel and will make appointments for discussion with Dr. Clohessy and Dr. Bowersox.

Position vacancies (created by expansion of the department's research facilities and projects) are in the areas of:

PLASMA PHYSICS
SOLID STATE PHYSICS
SATELLITE DYNAMICS
SPACE PHYSICS
SHOCK TUBE EXPERIMENTS

Advanced degree is required and experience should include work which resulted in publication of significant papers.

For an interview, please contact the American Physical Society's Placement Register during the meeting.

APPLIED MECHANICS

Position open with small consulting firm to do theoretical work primarily in structural mechanics, with emphasis on vibration problems. Inquiries are invited from engineers on doctoral level in applied mechanics, or in acoustics with applied mechanics background. Firm is engaged in research and design related to underwater sound, industrial ultrasonics, and instrumentation problems.

Write to Dr. Miguel C. Junger

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those schools which will also offer programs for college teachers are indicated by asterisks.

Arizona State University, Tempe, Ariz. (Dr. E. E. Snyder, Department of General Physical Sciences)
University of Colorado,* Boulder, Colo. (Dr. J. M. Cleveland, Department of Physics)
University of Georgia, Athens, Ga. (Dr. J. J. Westfall, Department of Botany)
University of Hawaii, Honolulu 14, Hawaii (Dr. M. M. Frodyma, Department of Chemistry)
Iowa State Teachers College, Cedar Falls, Iowa (Dr. R. A. Rogers, Department of Science)
Harvard University,* Cambridge 38, Mass. (Dr. V. Guillemin, Jr., Department of Physics)
University of Michigan, Ann Arbor, Mich. (Dr. L. C. Anderson, Department of Chemistry)
University of Mississippi, University, Miss. (Dr. N. A. Childress, Department of Mathematics)
Washington University,* St. Louis 30, Mo. (Prof. E. U. Condon, Department of Physics)
New Mexico Highlands University, Las Vegas, N. M. (Dr. E. G. Meyer, Department of Chemistry)
University of New Mexico, Albuquerque, N. M. (Dr. W. H. Ivins, Department of Secondary Education)
Cornell University, Ithaca, N. Y. (Dr. D. Boynton, Dean of the Graduate School)
Syracuse University, Syracuse 10, N. Y. (Dr. A. T. Collette, Department of Bacteriology and Botany)
University of North Carolina, Chapel Hill, N. C. (Dr. E. C. Markham, Department of Chemistry)
Ohio State University,* Columbus 10, Ohio (Dr. J. S. Richardson, Department of Science Education)
Oregon State College, Corvallis, Ore. (Dr. S. E. Williamson, Department of Science Education)
Temple University, Philadelphia 22, Pa. (Prof. E. L. Offenbacher, Department of Physics)
University of Pennsylvania, Philadelphia 4, Pa. (Prof. J. F. Hazel, Department of Chemistry)
Brown University, Providence 12, R. I. (Prof. E. R. Smith, Department of Education)
State University of South Dakota, Vermillion, S. D. (Prof. C. M. Vaughn, Department of Zoology)
University of Texas, Austin 12, Tex. (Dr. R. N. Little, Department of Physics)
University of Utah, Salt Lake City 12, Utah (Dr. T. J. Farnley, Department of Physics)
University of Virginia, Charlottesville, Va. (Dr. James W. Cole, Jr., Department of Chemistry)
University of Wisconsin, Madison 6, Wis. (Dr. D. E. Bucklin, Department of Zoology)

A March 1 deadline has been set for the receipt of proposals for participation in NSF's Graduate Laboratory Development Program. Proposals received after that time will be reviewed following the next closing date, which is September 1.

Grants awarded under the program are intended to aid institutions of higher education in modernizing, renovating, or expanding graduate-level basic research laboratories used by staff members and graduate students. The program requires at least fifty percent participation by the institution with funds derived from nonfederal sources, and only those departments having a graduate program leading to the doctoral degree in science at the time the proposal is submitted are eligible to take part.

Proposals, as well as requests for additional information, should be addressed to the Office of Institutional Programs, National Science Foundation, Washington 25, D. C.

The National Research Council of Canada has announced that its support for research at Canadian universities in 1959-60 reached a record total of \$9.37 million, representing an increase of \$2.62 million over the previous academic year. Research grants to university staff members amounted to nearly 80 percent, 450 scholarships and fellowships for graduate students