

PHYSICIST or ELECTRONIC ENGINEER

Project Engineer Level

Physicist or Electronic Engineer, preferably Ph.D. — M.S. acceptable — to head small development group.

Minimum of five years' experience in the development of pulse circuitry, sophisticated ultrasonics or delay lines.

Telephone SWarthmore 1-0100 or send complete resume including salary requirements in confidence to:

Mr. Eugene B. Kelly

Manager Professional Placement Electronics Division

CURTISS-WRIGHT CORPORATION

35 Market Street, East Paterson, New Jersey

AN EQUAL OPPORTUNITY EMPLOYER

SOLID STATE

*Semi-conductor Research—
Magnetics—Thin Films*

Ph.D. Research Physicists: If you have reached a stage in your professional career that you find limiting, we will be happy to pursue the matter of new employment in our Physical Research Laboratories at Dayton, Ohio.

Recent developments and program changes require that only scientists capable of extending themselves into new areas of semi-conductor research be considered. Awareness of semi-conductor potential and epitaxial techniques is mandatory. In areas of Magnetic Research, a background of studies involving the properties of magnetic materials and thin films is desirable. However, rather than establish arbitrary requirements that limit your reaction to this invitation, we prefer to leave all matters open.

Our primary business is furnishing the world with the best and most advanced data handling systems. This is achieved through long-range planning and realistic research. If qualified and interested, please respond promptly and in complete confidence. All qualified applicants will receive consideration for employment regardless of race, creed, color, or national origin. Write to:

T. F. Wade, Technical Placement 118

THE NATIONAL CASH REGISTER COMPANY
Dayton 9, Ohio

hundred feet in diameter) will permit the study of solar and lunar radiations according to their regions of origin, since those bodies subtend an angle of about one-half degree. The instrument will be used in studies of variations in activity of different portions of the sun in relation to sun spots and flares, the polarization of solar radiation, and the question of the existence of volcanic activity on the moon. Observations of planetary and galactic radiation are also planned.

Time Signal Adjustment

On August 1, at 0000 Universal Time, an advance of 50 milliseconds was effected in the phase of the time signals broadcast by five standard frequency broadcasting stations in various parts of the world (GBR and MSF at Rugby, England; NBA, Canal Zone; WWV, Beltsville, Md.; and WWVH, Hawaii). Such adjustments are made whenever necessary in order to maintain the broadcast signals, which are based on atomic frequency standards, within 50 milliseconds of Universal Time. Variations of the time scale reflect a small, but perceptible fluctuation in the speed of the earth's rotation.

Coordination helps provide a more uniform system of time and frequency transmissions throughout the world, needed in the solution of many scientific and technical problems in such fields as radio communications, geodesy, and the tracking of artificial satellites.

Participants in the coordination project were the Royal Greenwich Observatory, the National Physical Laboratory, and the Post Office Engineering Department in the United Kingdom; and, in the United States, the US Naval Observatory, the Naval Research Laboratory, and the National Bureau of Standards. This program followed previous cooperative efforts of the same agencies to achieve uniformity and simplification in procedures.

AFOSR Research Grants

During the fiscal year ending June 30, the Air Force Office of Scientific Research made grant and contract awards amounting to more than \$21.5 million. Of the 460 grants, new contracts, and contract renewals involved, 357 went to 110 universities and colleges (92 in the US, 5 in Canada, 11 in South America, and one each in Australia and Puerto Rico). The remaining 103 were received by nonprofit research institutions and industrial laboratories.

AFOSR is one of four basic research organizations of the Air Force's Office of Aerospace Research and is primarily charged with the support of basic research in the Western Hemisphere and other countries not served by OAR's European Office in Brussels. All AFOSR grants and contracts are based on unsolicited research proposals, which are evaluated on the basis of originality, significance to science, competence of the investigator, and the relevance of the proposed research to Air Force needs.