

LABORATORY DIRECTOR

Hyperthermal Gasdynamics Laboratory

DESCRIPTION OF POSITION RESPONSIBILITIES

Initiate, plan, solicit, conduct and supervise advanced research activities, both theoretical and experimental. These activities conducted for government agencies and private corporations include:

- Simulation of space vehicle re-entry phenomena in hyperthermal, hypervelocity plasma tunnels
- Investigation of the state of high temperature plasma in arc chambers, mixing chambers, and nozzles
- Design and development of instrumentation techniques and systems applicable to the improvement of such devices as pitot probes, calorimeters, total enthalpy and mass flow probes
- Study of arc generator characteristics

Communicate with customers, management and the scientific community. Assume responsibility for conduct of the Hyperthermal Gasdynamics Laboratory with specific regard for timely and satisfactory contract execution, personnel staffing, facilities' modernization, expansion, financing, and business administration.

BACKGROUND EXPERIENCE REQUIRED

Ph. D. in Aeronautical Engineering, Engineering Sciences, or equivalent with minor emphasis in Physical Chemistry, Physics and Mathematics.

Minimum of five to ten years of theoretical and experimental research related to such phenomenological processes as ablation, gas dissociation and recombination, gas flow interaction with electric arc discharges, aerodynamic heating.

Specific background with reference to aerodynamic simulation concepts, similarity laws, basic physics related to plasma technology, orbital mechanics, basic gasdynamic principles, shock tube and hypersonic flow research.

Please send resume to Pete De Paolo, *Personnel Manager*.

PLASMADYNE CORPORATION

A Subsidiary of Giannini Scientific Corporation

3839 S. Main Santa Ana, California

PHOENIX

Opportunity & Ideal Living

GOODYEAR AIRCRAFT CORPORATION

Arizona Division

THEORETICAL PHYSICIST

Background in Electromagnetic Theory and Plasma Physics, Ph.D. Preferred.

EXPERIMENTAL PHYSICIST

Background in Physical Optics, Classical Mechanics, Microwaves, and Information Theory on Quantum Mechanics and Statistical Mechanics, Ph.D. Preferred.

ELECTRONIC CIRCUITRY

Radar Circuitry, Data Processing, Analog Computer Circuitry, Control Systems.

ELECTRONIC PACKAGING

Request Application or Send Résumé to:

B. A. Watts, Engineering Personnel

Goodyear Aircraft Corp., Litchfield Park, Arizona

Similar Positions at Goodyear Aircraft Corporation, Akron, Ohio

accounted for another 14 percent of the total, and the remainder was expended in support of journal publication, contributions to scientific organizations, and administrative costs. Research grants are made only to full-time staff members of Canadian universities. Scholarships are available both to Canadians and foreign nationals who are studying at Canadian universities. Post-doctoral fellowships are granted for the support of Canadian scientists studying outside the country and to aid foreigners studying in Canada.

Yeshiva University's Graduate School of Mathematical Sciences has been renamed the "Graduate School of Science", underscoring plans to broaden the school's program to include experimental physics, biology, and chemistry. A six-man Advisory Council to assist in the development of the school included physicists A. Pais of the Institute for Advanced Study and Peter G. Bergmann of Syracuse University. Leon Landovitz of the Brookhaven National Laboratory has been named to the Graduate School faculty as assistant professor of physics.

American Machine & Foundry Company's Research and Development Division has established a \$10 000 grants-in-aid program for university graduate students and junior professors working on individual research projects generally related to the company's activities. The fund will be divided into four \$2500 grants with additional support to be determined by the Division's executive staff.

An Institute of Measurement Science will be established at George Washington University in Washington, D. C., with the support of the National Bureau of Standards and the Martin Company of Baltimore, Md. The Institute's first classes will be held beginning in February as part of the University's regular curriculum. Several courses leading to the bachelor's, master's, and doctoral degrees will be offered, including instruction in meteorology, in statistics as applied to measurement, and in electronic, thermal, and optical measurement. The Martin Company provided \$10 000 toward the establishment of the Institute. Courses will be held at the University and also at NBS, where they will include work in the Bureau's laboratories.

Oxford University is again offering ICI and Pressed Steel Fellowships, tenable for three years, to commence at the beginning of the 1961-62 academic year. The fellowships (open equally to men and women) are for research in physics or chemistry or allied subjects. Stipends will normally range from £800 to £1100, depending on age and individual qualifications; fellows will be expected to have a doctoral degree by the date of their appointment.

Applications should reach the Registrar, University Registry, Clarendon Building, Oxford, England, not later than February 11. Further information can be obtained from the Registrar.