



ADVANCED SOLID STATE RESEARCH & DEVELOPMENT

Senior scientists and engineers are needed to fill new positions in our rapidly expanding research and development laboratories near San Francisco. Our broadening interests have created challenging positions for individuals with significant backgrounds in the following fields:

SURFACE PHYSICS AND CHEMISTRY
ELECTROCHEMISTRY
ELECTRON MICROSCOPY
MAGNETIC THIN FILMS
EVAPORATED CIRCUITRY
SEMICONDUCTOR MATERIALS
ELECTRO-OPTICS
ADVANCED CIRCUIT DEVELOPMENT
MICROWAVE PHYSICS

A Ph.D. Degree or commensurate experience is especially desirable.

Applicants are invited to send detailed resumes, including salary history and requirements, to Mr. Donald Palmer. Palo Alto interviews for qualified applicants will be arranged from anywhere in the United States. All inquiries strictly confidential and acknowledged promptly. All qualified applicants will be considered regardless of race, creed, color or national origin.

FAIRCHILD

SEMICONDUCTOR

844 CHARLESTON ROAD • PALO ALTO, CALIFORNIA

sciences are applied to the investigation of biological problems, and to answer the questions "What is biophysics?" and "Why biophysics?". By exposing students to current biophysical research it was anticipated that some would undertake graduate studies in this field. Also, the interaction of these students with others on their campus and with their teachers was expected to be of significant value.

Although the central theme of the program was molecular biology, sessions on organ systems and instrumentation were also included. Throughout, emphasis was placed on the biological aspects of the subjects discussed. Daytime lectures were divided into three segments. The first was clearly biological and dealt with cell structure, division, and differentiation. The second was more physically and chemically oriented and covered macromolecular structure and interactions, bioenergetics, membrane phenomena, and instrumentation. In the final phase, nerve and muscle systems were discussed. These topics were not alleged to cover the field of molecular biology completely, but were merely intended to serve as examples. Evening lectures, laboratory tours, and social activities were integral parts of the program.

The organization and evaluation of the Summer Institute are the substance of a report which is available from the Office of the Principal Consultant, Biophysics and Biophysical Chemistry Study Section, 2020 Milvia Street, Room 300, Berkeley 4, Calif.

NSF Fellowships

Applications will be accepted until December 18 for National Science Foundation postdoctoral fellowships and until January 5, 1962, for NSF graduate fellowships. Awards will be made in the mathematical, physical, medical, life, and engineering sciences, in the history and philosophy of science, and in various interdisciplinary fields. Applicants must be citizens or nationals of the United States who have demonstrated ability and special aptitude for advanced study in the sciences. Their qualifications will be evaluated by panels of scientists appointed by the National Academy of Sciences-National Research Council, and final selection of fellows will be made by the NSF.

Postdoctoral fellows will receive \$5000 for the first year and \$5500 for subsequent years; the stipends of graduate fellows will vary between \$1800 and \$2200 depending on academic status. Dependency (\$500 for each dependent) and limited travel allowances will be available to fellows in both categories. Graduate fellows will receive allowances for tuition and laboratory fees. Announcements describing the fellowships are available from the National Science Foundation, Washington 25, D. C. Application forms may be obtained from the Fellowship Office, National Academy of Sciences-National Research Council, 2101 Constitution Ave., N.W., Washington 25, D. C. Awards in both categories will be announced on March 15, 1962.