

the purposes of these contracts, thus benefiting education though research was the major mission.

2. Similarly, the AEC in fiscal year 1965 had 13 on-campus Federal contract research centers which gave partial employment to approximately 1,100 graduate students.

3. All AEC facilities are encouraged to augment their permanent staffs with temporary staff drawn from the universities to the extent that is appropriate to their research, development, and production missions. Several thousand faculty and students per year are benefited in this way.

4. Finally, as in any industry dependent upon technological advances, AEC contractors conduct programs for upgrading the educational and technical backgrounds of their employees in areas which contribute to the accomplishment of their AEC mission.

NUCLEAR EDUCATION AND TRAINING

PART I. DESCRIPTION OF THE PROGRAM

1. Objectives

The major purpose of the AEC's nuclear education and training program is to help the Nation's education system, primarily colleges and universities, develop and maintain strong curriculums in the nuclear aspects of the life, engineering, and physical sciences so that the atomic energy program has adequate technical manpower. The continued graduation of well-qualified scientists and engineers well-versed in nuclear technology is of the utmost importance to the continued advancement of the United States in national security as well as the maximum peaceful utilization of atomic energy for power production, propulsion, desalination, agricultural, medical and industrial use of radioisotopes, and a wide variety of other uses which are being developed in the total AEC program.

The program has two major facets:

1. On-campus activities including equipment and nuclear material loans for specialized laboratory courses; nuclear fuel cycle grants and loans for university reactors; fellowships and traineeships for support of graduate students in nuclear science and engineering; faculty institutes and conferences for high school, college and university faculty in subjects relating to nuclear technology.

2. University-AEC laboratory cooperative activities through which faculty and students from colleges and universities can utilize AEC-owned facilities at national and other laboratories. This portion of the overall education program includes activities such as short courses in radioisotope utilization, summer engineering practice schools, visiting lecture programs, summer trainee assignments, use of AEC facilities to perform experiments as part of regularly scheduled college and university courses.

Descriptive material on these activities may be found in "Program Statistics,"¹ and "Guide to Nuclear Education Activities."¹ "Educational Programs and Facilities in Nuclear Science and Engineering"¹ provides descriptions of nuclear science and engineering curriculums in U.S. institutions of higher education, the current status of which reflects the accumulated effect of AEC educational assistance activities since the initiation of the program.

¹ Published by AEC, Division of Nuclear Education and Training.