

insure a better understanding of the environmental significance of developments in atomic technology to this and future generations. It was also recommended that techniques for monitoring worldwide fall-out be improved, measurements of radiation storage in the stratosphere be extended, a national agency control and keep records of all dumping of radioactive material in the ocean, an international body establish standards for marine and air disposal of radioactive materials as soon as possible, research on marine disposal be carried out on a cooperative international basis, and that buildings housing reactors near populated areas be sealed against release of radioactive materials in event of accident.

Fellowships and Grants

The US Government has again announced the availability of university lecturing and advanced research grants under the Fulbright Act for the academic year 1957-58. To be eligible, an applicant must be a US citizen having a doctoral degree and at least one year of college or university teaching experience; he should also be proficient enough in the language of the country for which he is applying to carry out the proposed activity. Awards are issued for one country only and applicants should specify a first choice and may list one alternative country. Fulbright lectureships and advanced research awards in physics for the coming year are available in Austria, Belgium, Chile, Denmark, France, Germany, Iraq, Italy, Japan, Netherlands, Norway, and the United Kingdom and its colonial territories. Applications must be postmarked no later than October 1, 1956, and should be mailed to the Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Avenue, Washington 25, D. C.

In addition, grants for lecturing abroad under the Smith-Mundt Act will be available in approximately thirty countries (in Latin America, the Near East, Africa, the Far East, and Europe) which are not participating in the Fulbright Program. These grants will be made available in response to requests submitted by interested institutions abroad to the Department of State through its Foreign Service Posts. Most grants will be for nine-month periods, but several may be available for a single semester or a summer session. Eligibility consists of US citizenship, and a recognized standing as mature scholars in the field of choice with at least one year of experience teaching on the university level in the US or abroad. In some cases, knowledge of the language of the host country is also necessary. Those interested should register with the Conference Board Committee from whose register requests of the State Department will be filled.

Applications will be accepted through September 4th for the second group of senior postdoctoral fellowships to be awarded by the National Science Foundation during the current calendar year. Fellowships will

ENGINEERS,

Electronic & Mechanical

PHYSICISTS:



Top Grade Openings

At Melpar *Leader in*

Electronic Research & Development

Due to our continuing expansion program a number of top grade openings exist in our new laboratories suburban to Washington, D. C. We urge you to consider the following:

1. At Melpar *skill and ability* determine advancement. Other considerations are secondary.
2. Melpar has doubled in size every 18 months for the past 10 years. New openings occur constantly. The engineer may advance to positions of increased responsibility *as soon as* he is ready.
3. Our unique "project team" system enables the engineer to apply himself to *entire* problems, from conception to completion of prototype.
4. Our new air-conditioned laboratories encompass over 285,000 square feet and offer *complete* facilities for creative research and design.
5. The Northern Virginia Area in which Melpar is located provides excellent living conditions. Recreational, cultural and educational facilities abound. Fully accredited graduate courses are available at Melpar and at 5 universities in the Area.

Top Grade Openings Exist in These Fields:

Network Theory · Systems Evaluation · Microwave Technique · UHF, VHF, or SHF Receivers · Analog Computers · Magnetic Tape Handling · Digital Computers · Radar and Countermeasures · Packaging Electronic Equipment · Pulse Circuitry · Microwave Filters · Flight Simulators · Servomechanisms · Subminiaturization · Electro-Mechanical Design · Small Mechanisms · Quality Control and Test Engineering

Write for complete information. Qualified engineers and physicists will be invited to visit Melpar at Company expense.



Write: Technical Personnel Representative

MELPAR Incorporated

A Subsidiary of Westinghouse Air Brake Company

3132 Arlington Boulevard, Falls Church, Virginia

Positions also available at our laboratories in:
Watertown, Mass., 11 Galen St.—Cambridge, Mass., 99 First St.

PHYSICISTS

IF YOU WANT: a position with responsibility in a small, progressive research firm...to live and work in New England...a secure, well-paying position with unlimited advancement opportunities.
IF YOU ARE INTERESTED IN: application of basic physical principles to many unconventional problems in fields such as...radiation processes...high temperature phenomena...instrumentation...
IF YOU HAVE: a B.S., M.S., or a Ph.D. in experimental or theoretical physics, electronics or applied mathematics...
THEN DO THIS: Write to Dr. M. Annis at:



ALLIED RESEARCH ASSOCIATES, INC.

43 Leon Street, Boston, Mass.

OPPORTUNITIES IN OPERATIONS RESEARCH

The Johns Hopkins University Operations Research Office offers exceptional opportunities for physicists who desire the challenge of military operational problems of unusual scope and diversity.

Our current research program includes problems in tactics, weapons system analysis, logistics, intelligence, communications, strategy, and military applications of game theory. Analysts customarily work as members of interdisciplinary teams, which provides an excellent opportunity for them to broaden their experience in many fast-growing areas of operations research.

Salaries are commensurate with experience and compare favorably with industrial research scales.

Your inquiries are invited. Please write:

Dr. Lincoln F. Hanson
 Research Personnel Officer
 7100 Connecticut Avenue
 Chevy Chase, Maryland

be awarded in mathematical, physical, medical, biological, engineering, and other sciences, in certain interdisciplinary fields, and in areas of convergence between the natural and social sciences. Names of successful fellowship candidates will be announced on October 16th. Candidates must be US citizens with demonstrated ability and special aptitude for advanced training and productive scholarship in the sciences. In addition, candidates must have at least five years experience beyond the science doctorate or its equivalent. Fellows will be selected on the basis of ability as evidenced by letters of recommendation and other evidence of attainment. Annual stipends from \$2000 to \$10 000, adjusted to match as closely as feasible the regular salaries of the award recipients, may be applied toward study or research in an accredited nonprofit institution of higher learning in the United States or abroad. A limited allowance to aid in defraying costs of travel will also be available. Applications and further details may be obtained from the Division of Scientific Personnel and Education, National Science Foundation, Washington 25, D. C.

Bell Telephone Laboratories graduate fellowships for 1956 have been awarded to 15 outstanding doctoral students under a new program established to encourage study and research in engineering and science related to communications technology. Each fellowship is for one year and carries a grant of \$2000 for the fellow and an additional \$2000 for tuition, fees, and other costs of the school of his choice.

von Neumann Receives Fermi Award

The first Enrico Fermi Award, comprising a medal, a citation, and \$50 000, was conferred in April on Atomic Energy Commissioner John von Neumann in recognition of his outstanding contributions both to the theory and to the design and construction of fast computing machines. The award is authorized by a section of the Atomic Energy Act of 1954, which provides that the Atomic Energy Commission, upon the recommendation of the General Advisory Committee and with the approval of the President, may grant an award for any especially meritorious contribution to the development, use, or control of atomic energy. The one previous award made under this authorization was presented to the late Enrico Fermi in November 1954. Following a recommendation of the General Advisory Committee, the Commission subsequently announced that the award would bear Fermi's name and that it would be made on an international basis not more often than annually.

In announcing the award, the AEC released the text of the following statement by the General Advisory Committee:

Dr. von Neumann is one of the great mathematicians of this generation and has achieved world renown. He has made fundamental contributions to theoretical physics. In the field of probability and theoretical