

# RECONNAISSANCE SYSTEMS

Data Systems Division of Litton Industries is developing Airborne Reconnaissance Systems utilizing a combination of airborne and ground real-time processing and intelligence dissemination capability. Concept development through system design applications are being studied for future requirements.

**STUDY LEADER**—To perform sensor studies involving Elint, infra-red, side-looking radar, and photographic data collection and interpretation techniques.

**STUDY LEADER**—To guide group developing electro-magnetic data processing systems.

**ENVIRONMENTAL ANALYST**—To perform environmental studies relating to radiation characteristics utilizing operations analysis and mathematical modeling techniques.

**MATHEMATICAL ANALYST**—To perform techniques studies for real-time processing of reconnaissance data under severe processing time constraints.

**RESEARCH PROGRAMMER**—To test the validity of systems designs based upon time and capacity considerations of existing and/or developmental computers.

**STUDY LEADER**—To guide group determining future requirements for space reconnaissance sub-systems involving mathematical modeling and operations research techniques and cost-effectiveness studies.

**OPERATIONS RESEARCH ANALYSTS**—To perform trade-off studies and develop mathematical techniques and models to translate future requirements into feasible systems configurations.

**ELECTRONICS ENGINEER**—To determine future requirements, assess current state-of-the-art, and extrapolate the art to the time period of interest.

An appropriate degree (preferably advanced) and five years' experience are considered to be the minimum requirements to successfully carry out these assignments.

Data Systems Division's location in San Fernando Valley, a technological center, provides access to adjacent Los Angeles graduate schools and recreational and cultural centers. Benefits include stock purchase plan, tuition refund plan, and relocation assistance.

Send resume to Mr. S. Lyle Langston, 6700 Eton Avenue, Canoga Park, California.

 **LITTON INDUSTRIES**  
DATA SYSTEMS DIVISION  
CANOGA PARK, CALIFORNIA  
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first part of Volume 3 contains 1200 references from the 1962-63 literature. Volume 3, Part 2, which will appear in January, will complete the 1962-63 coverage. In addition to the bibliography, each volume contains a permuted title index, author index, and a list of corrections to papers listed earlier. Copies of Volumes 1 and 2 and of Volume 3, Part 1, can be ordered from the American Institute of Physics at \$3 per copy.

## Nuclear Science

The Nuclear Data Project of the National Academy of Sciences—National Research Council has issued two bibliographies to papers dealing with nuclear-structure theory: *Nuclear Theory Reference Book for 1957 and 1958* and *Nuclear Theory Reference Book for 1959 and 1960*. Each volume contains entries for about 1000 published papers and unpublished reports in the following categories: nuclear structure, nuclear models, nuclear properties, nuclear reactions, electromagnetic radiation, beta decay and parity, alpha decay, and tables and computational aids. Author indexes are included. The books supersede the Nuclear Theory Index Cards which had been issued since 1958. The volumes can be ordered from the Superintendent of Documents, Washington 25, D. C., for \$1 a copy (\$1.25 for overseas orders).

The NAS-NRC has also issued the proceedings of the 1961 Conference on *Electromagnetic Lifetimes and Properties of Nuclear States* (Publication 974), held October 5-7 in Gatlinburg, Tenn. Edited by Paul H. Stelson of the Oak Ridge National Laboratory, the volume includes 21 invited papers, many of which are in the nature of a review of their topic, as well as several expanded abstracts and some of the discussion which followed presentation of papers. Areas covered by the proceedings are theoretical and experimental aspects of nuclear lifetime measurements, electromagnetic moments of excited nuclear states, and properties of particle unbound nuclear states. The publication can be ordered from the NAS-NRC, 2101 Constitution Ave., N.W., Washington, D. C., for \$2.00 a copy.

The background and status of atomic energy development as well as its framework of law and policy are the subject of a new reference book issued by the Reinhold Publishing Corporation. Entitled *The Atomic Energy Deskbook*, the volume was prepared under a contract between Arthur D. Little, Inc. and the Atomic Energy Commission, with material compiled largely from published sources of information. Its more than 1000 entries, alphabetically arranged, deal mainly with work being done in the United States on peaceful uses of atomic energy with orientation toward subjects of industrial importance. Data are also given on military applications and on foreign atomic energy programs. The book can be obtained from the Reinhold Publishing Corporation, 430 Park Avenue, New York, N. Y., for \$11.00 a copy.