

## PHYSICIST

DISTINGUISHING FEATURES OF THE CLASS: Under the general supervision of the Director of the Division (Radiology) and his deputies, is responsible for radiation safety at Grasslands Hospital and to ensure that components of the radiation program comply with Federal, State and local regulations. Supervision is exercised over a number of technical and clerical personnel. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Standardization of cobalt teletherapy and all other radiotherapy equipment;

Design of the structural shielding of all new radiological facilities;

Standardization of cobalt teletherapy and all other radiotherapy equipment;

Consultation with radiologist on methods of dose determination for various teletherapy techniques;

Periodic cobalt and radium contamination tests;

Radiation protection surveys of all therapy and diagnostic installations;

Design of the structural shielding of all new radiological facilities. Such design to include the selection of appropriate materials and the calculation of the required barrier thickness;

Review of records of procurement, utilization and disposal of radioisotopes;

Periodic tests for radioactive contamination of isotope working and storage areas;

Consultation with radiologist in planning future radioisotope investigations;

Periodic review of personnel monitoring methods, instruments and records to ensure the adequacy of the radiation protection program;

A formal course in radiological physics for residents, technicians and other hospital personnel;

Availability at all times for consultation and assistance in handling problems involving radiation safety in the hospital in general and in the Division of Radiology in particular.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of the theory and techniques in the field of radiology; thorough knowledge of the operation and maintenance of radiation equipment; knowledge of Federal, State and local regulations pertaining to safety regulations; ability to make dosage calculations and determinations; ability to plan and supervise the work of subordinates; ability to make complex written and oral reports; ability to work creatively without direct supervision; good judgment, tact, good health.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Graduation from an accredited college or university with a Bachelor of Science Degree\* and a Master of Science Degree\* majoring in Radiation Physics or a closely related field, and five years experience as a radiation physicist, at least three years of which shall have been in charge of a large radiation facility.

SPECIAL NOTE: Certification by or eligible for an American Board of Radiology Diploma or certificate.

\*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.