

ASSISTANT MEDICAL PHYSICIST

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent of this class is responsible for performing highly technical treatment modalities for patients undergoing radiation therapy. Responsibilities include treatment planning for total body irradiation, stereotactic radiotherapy, transperineal prostate implants, three dimensional conformal therapy, and high dose remote after loading brachytherapy. This class is differentiated from the Dosimetrist by the level of training and experience and the level of specialized procedures performed. Supervision is exercised over radiotherapy technologists and dosimetrists in the implementation of the treatment plan. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Performs physics aspects of total body radiation in conjunction with bone marrow transplantation;

Performs physics aspects of stereotactic radiotherapy in conjunction with neurosurgery;

Performs physics aspects of transperineal prostate implants in conjunction with urology treatment;

Performs three-dimensional conformal therapy treatment planning;

Performs high dose remote afterloading brachytherapy quality assurance and treatment planning;

Performs physics aspects of conformal therapy and total skin irradiation;

Develops teletherapy treatment plans in consultation with the Radiation Oncologist using isodose charts or treatment planning computer;

Supervises the production of teletherapy treatment devices such as shadow blocks, tissue compensators, etc.;

Reviews patient treatment charts weekly, ensuring accuracy of calculations and dosages;

Prepares final chart and dosage summary after completion of therapy;

Participates in weekly radiation therapy chart rounds;

Performs physics aspects of intra-cavitary and interstitial implant procedures;

Conducts radiation protective survey of brachytherapy patients;

Performs in vivo dosimetry such as TLD measurement;

Participates in special dosimetry-related projects;

Provides instruction and training to departmental staff as needed.

EXAMPLES OF WORK: (Cont'd)

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments;

Accesses protected health information (PHI) in accordance with departmental assignments and guidelines defining levels of access (i.e. incidental vs. extensive);

May perform other incidental tasks, as needed.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of all modern procedures and techniques involved in the treatment and planning of radiation therapy; thorough knowledge in the use and operation of various radiographic and radiation therapy equipment; good knowledge of computerized radiation treatment planning systems; good knowledge of human anatomy; good knowledge of specific safety precautions which must be observed in the operation and use of radiological equipment and radioactive materials; ability to maintain effective working relationships with medical and nursing staff; ability to direct and plan the work of others; ability to communicate effectively both orally and in writing; ability to effectively use computer applications such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments; ability to read, write, speak, understand and communicate in English sufficiently to perform the essential duties of the position; initiative; tact; thoroughness; accuracy; sound professional judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Possession of a valid license and current registration, issued by the New York State Department of Education, as a Medical Physicist in the specialty Therapeutic Radiological Physics or Radiation Oncology Physics.

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.

*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 Department of Education as a post-secondary, degree-granting institution.

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Job Class Code: C2879
Job Group: XVI