

## BIOMEDICAL TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: Under supervision, an incumbent in this class provides maintenance and technical expertise to medical staff with regards to the operation and maintenance of sophisticated medical equipment, ensuring that equipment functions within manufacturers specifications and code requirements and in a manner which is safe for both patients and staff. This is an entry level technical position that primarily performs preventative maintenance, repairs, and safety testing of routine difficulties. This would generally include simple to moderately complex equipment. Supervision is not normally a responsibility of this class. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Troubleshoots and repairs complex digital and analog circuitry to maintain proper medical equipment operation and ensure optimum operation of equipment;

Interfaces medical ancillary devices to computers for clinical instrumentation data acquisition to assure quality control of medical devices and verify prompt response of clinicians and automated flow charting;

Inspects medical equipment to ensure compliance with manufacturers specifications and code requirements;

Tailors equipment applications to meet clinical needs and insures implementation;

Calibrates equipment to ensure accuracy and correct operation;

Documents repairs, calibrations, periodic safety inspections and preventive maintenance for maintaining database on departmental activities;

Participates in comparative evaluation of equipment and recommends new equipment and enhancements;

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: Good knowledge of the operation repair and safety considerations of biomedical equipment and instrumentation; good knowledge of the operational aspects and environment of biomedical equipment as it relates to the treatment of patients; working knowledge of governmental code requirements and manufacturer specifications; ability to determine the cause of operational malfunctions of biomedical equipment and make necessary repairs; ability to communicate and work well with others; ability to carry out instructions; 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; thoroughness; reliability; sound judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: An Associate's Degree\* in Electronics, Electrical or Biomedical Engineering and three years of experience where the primary function of the position was the repair and preventive maintenance of biomedical equipment, one year of which must have been in a health care facility, or a facility that manufactures or services biomedical equipment.

SUBSTITUTIONS: A Bachelor's Degree\* in Electronics, Electrical or Biomedical Engineering may be substituted for the Associate's Degree and for two years of the above experience, but not for the one year of experience which must have been in a health care facility or facility that manufactures or services biomedical equipment. Satisfactory completion of 60 college credits\*, which must have included at least 30 credits in Electronics, Electrical or Biomedical Engineering, may be substituted for the Associate's Degree\*.

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