

BOARD OF REGENTS

REGENT MERIT SYSTEM

Class Title: Biomedical Equipment Technician

Class Code: 3403

Pay Grade: 413

GENERAL CLASS DESCRIPTION:

Under general supervision, tests, calibrates, repairs, fabricates, modifies and maintains electronic/electro-mechanical equipment of moderate complexity. The equipment is varied and frequently non-related as well as being located in multiple and diverse departments of the institution. Types of equipment include life support, resuscitation, diagnostic and therapeutic equipment used in a patient care or medical/biological environment.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

1. Tests the performance and operating characteristics of medical electronic/electro-mechanical equipment of moderate complexity to ensure compliance with established performance and safety standards.
2. Documents the results of equipment safety/performance evaluations.
3. Diagnoses problems and performs corrective repair work and/or calibration as required on medical electronic/electro-mechanical equipment of moderate complexity.
4. Documents actions required to correct equipment malfunctions.
5. Fabricates from schematic diagrams and layout drawings new electronic equipment of moderate complexity.
6. Orders parts and supplies as required in the maintenance and fabrication of medical electronic/electro-mechanical equipment and advises on the selection of repair parts for inventory.
7. Attends workshops, conferences and specialized training courses to keep abreast of the field.
8. Reads, studies, or revises appropriate publications related to the field.

The tasks listed under the heading of Characteristic Duties and Responsibilities are examples of the variety and general nature of duties performed by employees in positions allocated in the class. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed, nor is it intended that related duties cannot be required.

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9. Makes equipment modifications where recommended by manufacturers and/or appropriate sources.
10. Where appropriate, advises equipment operators on the proper use of equipment.

KNOWLEDGES, SKILLS, AND ABILITIES:

1. Broad-based, in-depth knowledge of electronic theory, circuitry and "state of the art" components.
2. Knowledge of medical terminology.
3. Knowledge of Bioengineering standards and policies.
4. Basic knowledge of chemistry, physics and human physiology.
5. Ability to apply troubleshooting logic in diagnosing to component level and repairing associated circuit malfunctions of electronic equipment/systems used in a medical research environment.
6. Ability to use general and specialized test equipment, hand and shop tools.
7. Ability to read and interpret electronic schematics and technical documents.
8. Ability to communicate with the professional medical staff both orally and in writing.
9. Ability to work in a medical/research environment under adverse conditions.
10. Ability to solder sensitive and small components.
11. Ability to use independent judgment to ensure quality patient care.
12. Skill in repairing equipment without "reworks".
13. Ability to assemble, fabricate and test electronic circuits and/or modifications to electronic equipment.
14. Ability to lift in excess of fifty pounds.
15. Ability to work in confined spaces for prolonged periods of time.

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MINIMUM ELIGIBILITY REQUIREMENTS:

Graduation from a two year residential electronic technology trade school within the past five years and either successful completion of the Biomedical Equipment Technician Trainee Program or one year of experience troubleshooting to component level, calibrating, and testing electronic/electro-mechanical equipment used in a patient care or medical/biological environment.

REVISION EFFECTIVE: January 16, 2007