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Job Code:.........100958Q
Position #:(PTAA)(NE)7109
Developed by:..........YS
Reviewed by:......SG; DLJ
Approved by:...........LK
Date:........11/13; 12/19
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UNIVERSITY OF RHODE ISLAND
Position Description

TITLE: Technician I

DIVISION: Academic Affairs (College of Engineering/Bio Med Engineering)

REPORTS TO: Department Chair/Principal Investigator(s)

GRADE: 7

SUPERVISES: N/A

BASIC FUNCTION:

Work closely with faculty, students, and technicians to design and construct experimental apparatuses. Support teaching activities. Maintain the operation of the Biomedical Engineering Laboratory.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Requisition electronic and other relevant components to support the Biomedical Engineering laboratory courses and capstone design projects.

Construct experimental apparatuses. Ensure that installation and operation of equipment is safe with proper electrical protection.

Develop and demonstrate hardware and software projects in support of the Biomedical Engineering undergraduate curriculum.

OTHER DUTIES AND RESPONSIBILITIES:

Perform additional duties as required.

LICENSES, TOOLS AND EQUIPMENT:

Personal computers, printers; word processing, database management software. Laboratory equipment.

ENVIRONMENTAL CONDITIONS:

The incumbent is not substantially exposed to adverse environmental conditions.

QUALIFICATIONS:

<u>**REQUIRED**</u>: High school diploma or GED; Minimum three years of hands-on experience in the field of biomedical engineering and/or electrical engineering; Demonstrated training in electronics; Demonstrated training in microprocessor-based systems and software development; Demonstrated strong verbal and interpersonal communication skills; Demonstrated proficiency in written communication skills; and, Demonstrated ability to work with diverse groups/populations.

<u>**PREFERRED**</u>: Demonstrated experience with hands-on projects related to a variety of biomedical engineering applications, including electronic and mechanical devices; Demonstrated experience with microprocessor-based designs and C/C++ programming; Demonstrated experience with app development for Android devices and 3D printing; Demonstrated experience with techniques using computer-aided software (e.g., AutoCAD, SolidWorks); Demonstrated basic machining skills; Demonstrated experience with circuit design and layout applications; Demonstrated knowledge of data acquisition for human and animal experiments; and, Demonstrated knowledge of the Food and Drug Administration's medical device regulations.

ALL REQUIREMENTS ARE SUBJECT TO POSSIBLE MODIFICATION TO REASONABLY ACCOMMODATE INDIVIDUALS WITH DISABILITIES.