

Job Code:.....101413
Position #: (PTAA)..... (NE)
Developed by:.....PD; RW
Reviewed by:.....SG; DLJ
Approved by:.....LK
Date:.....11/19

UNIVERSITY OF RHODE ISLAND

Position Description

TITLE: Technician III
DIVISION: Academic Affairs (College of Engineering)
REPORTS TO: Dean, Associate Deans, Director
GRADE: 11
SUPERVISES: Extensive laboratories and all users of those facilities

BASIC FUNCTION:

Support major laboratories located in the College of Engineering Student shop, including the services to the building, a wide variety of machine tools, a casting foundry and associated test equipment.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Maintain laboratory space and services and equipment. Equipment currently includes: furnaces; milling, turning, drilling and grinding machines; an injection molding machine; rapid prototyping plastic deposition and table-top CNC mills and lathes; a variety of precision measuring machines and devices; varied instrumentation for measuring forces, surface wear, power consumption etc.; Provide instructional usage and safety training to students; maintain training, safety, repair and maintenance records for all equipment in the student shop.

Oversee all of the multidisciplinary space on the quad level including but not limited to the student shop, the maker spaces, high bay space, metrology lab.

Assist in the oversight and instruction of undergraduate and graduate students in conventional manufacturing and rapid prototyping of parts, fixtures, test components and so on, associated with laboratory exercises and course projects.

Supervise undergraduate manufacturing laboratory work and engineering design prototyping tasks, which are part of the academic curricula and capstone design initiatives for all engineering programs.

Advise on the need for equipment enhancements, updates or necessary changes and identify and arrange the supply of necessary consumables for laboratory operation.

Ensure safe procedures are always carried out in all aspects of the laboratory operation.

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Organize the laboratory for prospective new student and industrial visits.

Help to identify equipment and procedures which may be required to solve new teaching needs.

OTHER DUTIES AND RESPONSIBILITIES:

Perform additional duties as required.

LICENSES, TOOLS AND EQUIPMENT:

Machine tools and computer numerical control (CNC) of machine tools, computers and instrumentation.

ENVIRONMENTAL CONDITIONS:

This position requires ensuring safe transport, storage, use and disposal of any potentially harmful materials which may be required for part manufacture. This position also requires supervision of all laboratory work involving use of potentially harmful materials.

QUALIFICATIONS:

REQUIRED: Associate's or Bachelor's degree in engineering, engineering technology or a related technical field and professional experience in either industry or a technical laboratory, OR High school diploma, a Minimum of three years of industrial or technical laboratory experience and technical background gained by college level course work, professional level course work, and/or a professional apprenticeship; Demonstrated experience with operating machine tools; Demonstrated supervisory experience; Demonstrated strong interpersonal and verbal communication skills; Demonstrated proficiency in written communication skills; Willingness to learn new technologies; and, Demonstrated ability to work with diverse groups/populations.

PREFERRED: Minimum of five years of industrial or technical laboratory experience; and, Demonstrated knowledge of computer numerical control (CNC) of machine tools, computers and instrumentation.

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