MECHANICAL LABORATORY SPECIALIST

Posting ID: EM18916436

Company: Stony Brook University

Work Location: Stony Brook, NY

Position Type: Full-Time

Salary: DOE

College Major(s): Mechanical Engineering (ME)

College Level(s): PhD. Student, Alumni

OVERVIEW

Stony Brook University, home to many highly ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. Our 1,100-acre campus is home to 24,000 undergraduate, graduate, and doctoral students and more than 13,500 faculty and staff, including those employed at Stony Brook Medicine, Suffolk County's only academic medical center and tertiary care provider. The University is a member of the prestigious Association of American Universities and co-manager of nearby Brookhaven National Laboratory (BNL), a multidisciplinary research laboratory supporting world class scientific programs utilizing state-of-the-art facilities such as the Relativistic Heavy Ion Collider, the National Synchrotron Light Source, and the Center for Functional Nanomaterials, and the New York Blue IBM BG/L+P supercomputer, owned by Stony Brook and managed by BNL. Stony Brook is a partner in managing the Laboratory for the Department of Energy, and is the largest institutional scientific user of BNL facilities. As such, many opportunities exist for collaborative research, and in some cases, joint appointments can be arranged.

Posting End Date: Nov 1, 2018, 11:59:00 PM

Roles and Responsibilities
The Instructional Support Specialist will report to the University Instructional Specialist and work with both the University Instructional Specialist and Instructional Support Technician, in the operation and management of the instructional laboratories, as well as supervise the laboratory sections of MEC 316, MEC 317 as well as other laboratory sections as needed.

Incumbent will also assist in supporting with senior design projects, faculty research projects and other duties as assigned. Incumbent will use University Procurement system to purchase lab equipment and supplies, and work within an annual lab fee budget to maintain equipment and supplies needed to run lab courses successfully.

The successful incumbent will have excellent interpersonal skills, exercising strong organizational skills with an exceptional attention to detail. Essential for this role is the adeptness to work independently as well as part of a team with a collaborative approach to problem solving.
Maintain the junior lab, and other teaching laboratories as assigned. Manage laboratory fee and ABET budgets and remain within allocations each fiscal year. Generate work orders, coordinate and schedule maintenance and repair on all laboratory equipment and perform repairs on equipment as necessary. Purchase all laboratory supplies and equipment via University Procurement system. Organize materials, maintain inventory, and manage waste disposals within EPA & EH&S regulations. Maintain an efficient and safe work environment in all labs. Develop recommendations for laboratory improvements.

Provide instruction and support to students in lab components of MEC 316 (Mechanical Engineering Lab I) and MEC317 (Mechanical Engineering Lab II), along with other laboratory courses as assigned. Advise students on the use of equipment and materials in a laboratory setting. Assist students with their course projects. Teach students how to operate equipment and operate equipment for students when necessary. Assist primary faculty with the development and maintenance of laboratory courses and curriculum, and provide all required reports for ABET accreditation process.

Design and build instructional and research devices based on laboratory needs and faculty specification. Examples may include test fixtures, experimental plants, data acquisition and management systems, calibration and validation mechanisms, etc.

Other duties or projects as assigned as appropriate to rank and departmental mission.

Education and Qualifications
Master's Degree (or foreign equivalent or higher) in Mechanical Engineering or closely related field. Three (3) years of directly related full-time experience working in a laboratory with highly specialized equipment. Knowledge of solids and fluids mechanics.

Preferred Skills
Additional years of directly related experience working in a laboratory with highly specialized equipment. Experience teaching undergraduate courses in Mechanical Engineering or closely related field. Excellent computer skills (ie. Microsoft Excel, Word, etc.). Experience designing and planning experiments and assisting faculty in conducting laboratory activities. Experience advising students on the use of equipment and materials in laboratory setting. Experience with developing recommendations for laboratory improvements. Experience maintaining and supervising the use of critical equipment.

How to Apply
https://www.higheredjobs.com/search/details.cfm?JobCode=176828778&Title= Mechanical%20Laboratory%20Specialist