University of Rochester, Department of Biomedical Engineering

Job Title: Senior Laboratory Engineer

Job ID: 189184

Position Summary: Senior Biomedical Engineer who is a passionate teacher/instructor/mentor to work in technical engineering laboratory setting to guide students and teaching assistants in biomedical engineering courses.

Primary duties: With general assistance from teaching faculty, takes a lead role in developing and delivering hands-on laboratory components of biomedical engineering classes.

Classroom
- Design and test new approaches and methods for laboratory exercises to ensure laboratory teaching in line with classroom work. Ensure systems analysis, feasibility analysis, instrumentation design, etc. remain in line with classroom work (20%)
- Attend lab sections and foster an active learning environment (5%)
- Consult and brainstorm with students taking Senior Design; supervise students throughout entire design process, to include assisting with initial product design ideas, discussing feasibility of design and prototype functionality, assisting with testing plans and evaluation strategies (15%)
- Develop and deliver short BME courses in the summer to pre-college scholars with faculty guidance (15%)
- Work with faculty to develop and deliver practical demonstrations of biomedical engineering to be presented in classes and during departmental open houses (Meliora Weekend / Commencement Weekend) (10%)

Equipment
- Manage all core facility and teaching laboratory equipment inventory for the UR Space System (5%)
- Maintain all core facility and teaching laboratory equipment. Develop relationships with outside vendors, UR Facilities, and other UR departments to facilitate prompt action for repair / replacement of equipment (10%)
- Research alternatives, make recommendations for repair/replacement of old or broken equipment and/or for other new equipment for Capital Budget requests (5%)
- Design and fabricate, or supervise design and fabrication of in-house equipment builds as necessary (5%)

Other
- Assist faculty through research and purchase of all necessary materials for laboratory classroom exercises. When necessary, review textbooks and related biomedical engineering curriculum resources material and provide recommendations for upgrading (5%)
- Other duties as assigned (5%)

Requirements: Bachelor’s degree in Biomedical Engineering or related field (e.g., Electrical Engineering, Mechanical Engineering, Engineering Technology, or Physics). Related experience is strongly desirable. Ability to interact with students and foster active learning in a laboratory environment. Knowledge of the use and maintenance of a wide range of laboratory equipment spanning the fields of biomechanics, bioinstrumentation, cell & tissue engineering, and microscopy a plus.

Candidates are required to apply online at: https://psportal.its.rochester.edu/applyonline
Position #189184

The University of Rochester is an equal opportunity employer.