



Massachusetts  
Institute of  
Technology

**SCHOOL OF ENGINEERING  
DEPARTMENT OF BIOLOGICAL ENGINEERING**

**LABORATORY INSTRUCTOR  
JOB # MIT00005244**

***Position Description:***

A full time Laboratory Instructor is sought to teach an undergraduate laboratory course, 20.309 Biological Instrumentation and Measurement, that introduces fundamental concepts and methods in measurement, as well as critical thinking to juniors and seniors studying biological engineering. Techniques covered in this class include light and fluorescence microscopy, optoelectronics, optical traps, and scanning probe microscopy. The course also covers fundamentals of experimental design, signals and systems, noise analysis, and interpretation of data. Two faculty-led classroom lectures per week are interwoven with 6-8 hours of work in the lab. Lab instructor responsibilities will include guiding students as they execute their experiments, grading assignments, assuring safe lab practices, preparing biological samples, and maintaining lab equipment. Position starting Spring or Summer 2008, reporting to the Department Head, Prof. Doug Lauffenburger.

***Requirements:***

Experience with some, though not necessarily all, of the techniques to be covered in the course; a strong passion for teaching and interacting with students; and outstanding writing, speaking, and organizational skills. An ideal applicant will have teaching experience.

***Education:***

Bachelor's degree in engineering, biology, physics or related discipline required.

Applicants should forward curriculum vitae, a cover letter including a summary of research and teaching experience, and names/addresses of three references to:

Steven Wasserman  
Massachusetts Institute of Technology  
Department of Biological Engineering  
Room 16-317  
77 Massachusetts Avenue  
Cambridge, MA 02139  
apply@media.mit.edu

*MIT is an Equal Opportunity Affirmative Action Employer*