Project/Graduate research position in piezoelectric actuation of cells

PROJECT PROPOSAL

Design and assemble a piezoelectric actuating system, capable of applying small loads in tension, compression or bending. The system will be utilized to study biological cells’ response to mechanical stress.

REQUIRED PROFILE

Engineering or Physics student with interest in experimental work, with good proficiency in design and basic electronics/control, programming proficiency and, above all, a high motivation to learn new related subjects.

PROJECT EXTENSION

While the project duration is planned to last 1 year of undergraduate studies, extension to a graduate degree is considerable and willingness to apply for Graduate School is a plus.

LOCATION AND CONTACT

Dynamic Fracture Laboratory, Faculty of Mechanical Engineering, Technion. Please contact Prof. D. Rittel (merittel@technion.ac.il) and Dr. Keren Shemtov-Yona (kerenrst77@gmail.com), TAU School of Dentistry.