



Biomechanics and Wearable Tech Lab

Asst. Prof. Arielle Fischer

Biomedical Engineering Department, Technion

Graduate Student/Postdoc/Lab Engineer Position

Research Topics:

- 1) Human motion analysis.
- 2) Algorithm development for Wearable Systems (programming skills- python/Matlab/microcontroller software development).
- 3) PCB EE design, manufacturing, and firmware.
- 4) App (iOS/android) development for motion tracking, activity and rehabilitation.
- 5) Vibrotactile Feedback Systems
- 6) Big data- motion data collection and machine learning analysis.
- 7) Subject recruitment and testing (athletes/military/muscle-skeletal problems).
- 8) Patient pain and function analysis.
- 9) Novel MRI imaging techniques.
- 10) Biomarker analysis- mechanical stress test.

Qualifications:

We are seeking grad students/postdocs/lab engineer with experience and interest in human motion analysis, algorithm development for wearable systems, applications development (iOS) for monitoring and evaluating motion analysis, multi-sensor system design and machine learning techniques for movement analysis. Students/postdocs will have the opportunity to conduct subject testing, data collection, analysis, device design and manufacturing. Applicants with backgrounds in electrical engineering, computer science, biomedical engineering, biology are encouraged to apply.

To Apply, please submit:

1. Brief summary of qualifications, relevant experience, research interests
2. CV
3. Relevant publications (advantage)
4. Grades (in relevant courses)

Send to: ariellef@technion.ac.il

