Research Positions Available at the Nanobioelectronics Laboratory

Positions description:
The Nanobioelectronics Laboratory has several available positions for PhD, MSc, and Undergraduate students as well as Post-doctoral research fellows, effective October 2015. The positions are geared towards the development of bio-microsystems technology, materials, devices and systems for (A) Molecular sensing for neurological health management, (B) Wearable devices for personalized health monitoring in IoT, (C) Bioelectric treatment for infectious microbial biofilms. Successful candidates should hold or pursue degree in Engineering Sciences (Biomedical, Electrical, Materials, Mechanical, Chemical) or Natural Sciences (Physics, Chemistry, Life Sciences), with strong written and verbal communication skills in English, supported by a strong track record of peer-reviewed journal publications and conference presentations in accordance with level of experience. The research areas of focus span the fields of engineering, biology, electrochemistry, and materials science and involve collaborative work with clinical teams. The candidate will be expected to work independently, publish scholarly papers and attend international conferences, and take on a mentorship role for undergraduate students.

Preferred Qualifications:
- Self-motivation
- Experience with biosensors, bioelectronics, microfluidics, and signal processing desired, but not required
- Experience with electrochemical characterization techniques
- Background in MEMS design and microfabrication processes will be considered a plus
- Background in materials synthesis, characterization, and lab-on-a-chip device integration will be considered a plus
- The desire to work in a collaborative, dynamic, interdisciplinary, and international team.

Common additional desired qualifications are: (a) strong aptitude and demonstrated expertise in hands-on experimental research, (b) prior student/post-doc mentoring experience, (c) familiarity with grant proposal preparation.

Interested candidates should send a curriculum vitae along with a short statement of research interests to Dr. Hadar Ben-Yoav (benyoav@bgu.ac.il). Please also advise the website of the Kreitman School of Advanced Studies for information about PhD and Postdoc procedures and competitive scholarships @BGU.

About the Nanobioelectronics Laboratory (http://nanobioelectronics.weebly.com/):
The Nanobioelectronics Laboratory (NBEL) in the Department of Biomedical Engineering at the Ben-Gurion University of the Negev was established in 2015. The focus is on integrating functional biomaterials with micro- and nano- systems for monitoring of chemical and biological markers and their utilization onto the next generation of mobile and network real-world personalized health monitoring applications. A centerpiece of the current research efforts is biosensing systems development and integration to provide holistic solutions for real-world use. The focus of our work is aimed specifically at in-vivo and in-vitro clinical applications.