Deutsch Foundation Post Doctoral Associate

MEMS Sensors and Actuators Lab (MSAL)
Nano-Bio Systems Laboratory (NaBSLab)
Institute for Systems Research (ISR)
University of Maryland, College Park, MD 20742, USA

Professor Reza Ghodssi:  www.ece.umd.edu/MEMS
Professor Gary Rubloff:  www.isr.umd.edu/gwrubloff/research/res_bio.php
Maryland NanoCenter:  www.nanocenter.umd.edu

Description:

Professors Ghodssi and Rubloff are seeking a motivated, independent postdoctoral associate with an expertise in chemistry and materials for MEMS and microsystems. The applicant must have a strong background in BioMEMS, nanotechnology or bioassembly. Experience in microfabrication, particularly in the area of microfluidics, is required. Knowledge of ANSYS, FEMLAB, L-Edit or other MEMS design tools is a plus.

The candidate will play a key role in a new multidisciplinary initiative aimed at new bioMEMS platforms for metabolic engineering and drug discovery. This effort is supported by a major grant from the Robert W. Deutsch Foundation, with a goal of implementing in bioMEMS biosynthetic pathways for cell signaling and quorum sensing processes in bacterial colonies and to develop new antimicrobial strategies.

This position is an excellent opportunity for researchers interested in building a strong career path in nanobiotechnology. The candidate will interact closely with collaborators at the University of Maryland Biotechnology Institute (UMBI) and the Center for Nanomedicine and Cellular Delivery at the University of Maryland Baltimore. As part of the Maryland NanoCenter, the candidate will enjoy access to a large nanotechnology community at Maryland and state-of-the-art fabrication and characterization facilities, including the FabLab, a 10,000 sq. ft. class 1,000 cleanroom, and the NispLab, a laboratory for advanced imaging and spectroscopy.

More information about our research groups may be found at the websites listed above.

Contact:
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