



University of California
San Francisco

Schools of Pharmacy and Medicine
Bioengineering and Therapeutic Sciences

POSTDOCTORAL RESEARCHER POSITION (Nanofabrication)

Department of Bioengineering and Therapeutic Sciences

Supervisor: Dr. Shuvo Roy, Director, Biodesign Laboratory

Description

The Biodesign Laboratory at UCSF, led by Dr. Shuvo Roy, is seeking a highly motivated postdoctoral fellow to work on The Kidney Project (<http://kidney.ucsf.edu>), a multidisciplinary team of academic and industry researchers who are applying MEMS (microelectromechanical systems) and tissue engineering strategies to create an implantable, self-regulating, bioartificial kidney for the treatment of end stage renal disease.

The prospective post-doc will contribute to developing an implantable device suitable for preclinical testing in collaboration with nephrologists and transplant surgeons. More specifically, this individual will also be working on design and fabrication of robust silicon membranes with sub-10nm pores for blood filtration and cell immunoisolation.

Qualifications

The successful candidate should have a PhD degree in Engineering, Physics, Chemistry, or a closely related field in biomedical sciences, and prior hands-on expertise with silicon microfabrication. Hands-on skills with experimental setups and the ability to communicate well, both verbal and written, with collaborators at different institutions are essential. Prior experience with stepper lithography, deep reactive ion etching (DRIE), and surface analysis tools is highly desirable.

How to Apply

Please send a CV/resume, brief statement describing research interests and experience, career goals, and email contact information for three (3) references to shuvo.roy@ucsf.edu.