

Postdoctoral Researcher Position Level 3 to 4 (Depending Upon Experience)

Postdoctoral Researcher position available immediately in the Grundfest Lab for Biophotonics and Minimally Invasive Surgical Tooling for a period of 1 -2 years depending upon performance. The main projects focus on development of new medical devices, with direct translation into clinical practice. Initial work will be on ultrasound-based imaging for tumor boundary detection and diagnostic spectroscopy. This lab provides a unique opportunity to not only collaborate with practicing physicians but also with entrepreneurs and venture capitalists for future commercialization and start-up opportunities. Other projects will include laser-based therapies and optical diagnostic devices, as determined by the Principal Investigators.

Duties:

- Manage projects, ranging from day-to-day activities to development of work plans and timelines
- Coordinate and perform *ex vivo* and *in vivo* experimentation
- Prototyping of new devices and benchtop testing of basic concepts
- Writing research grants for NSF, NIH, DoD, and other sources of support
- Teaching undergraduate and graduate students basic laboratory techniques
- Supervising undergraduate and graduate students as necessary

Qualifications:

- PhD in either Electrical or Mechanical Engineering preferred with a strong background in acoustics, image processing, and software development
- Understanding of electrical/optical systems, design, and associated testing/measurement methods
- Experience performing animal and tissue experimentation
- Understanding of systems engineering, software/hardware interface
- Experience with design and analysis software (MATLAB, SOLIDWorks, PCB CAD, Comsol, Circuit/System Simulation Software) and with performing simulations
- Basic project management skills, creating timelines, budgets, milestones, deliverables
- Good oral and written communication skills, especially the ability to explain technical concepts to non-technical personnel, is essential for these positions
- Prior experience with government and NGO grants is a major strength as is prior industry experience
- Strong publication record
- Highly motivated individual, with ability to self-manage and work within a collaborative team environment

How to Apply:

- Current CV (Curriculum Vitae)
- Cover Letter
- Academic Transcript(s)
- 3 Reference contact information
- A one page summary of prior research experience and long term goals.
- Please send all application materials to warrenbe@seas.ucla.edu