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**Student Research Positions in Neurophotronics, Neuromodulation and Cancer Research**

In the Department of Biomedical Engineering at Wright State University, we focus on noninvasive optical imaging of the brain function and cancer at preclinical and clinical settings. We are looking for candidates to take an active part in the research and development of novel optical imaging instrumentation and computational methods. The position offers a stimulating work environment integrating engineering and physics with medicine, neuroscience and biology. The candidate will have a unique opportunity in both basic laboratory and translational research by collaborating with scientists and medical doctors located in close proximity. The lab is located at the heart of the Neuroscience Engineering Collaboration building, which houses the Wright State University & Premier Health Neuroscience Institute, a University System of Ohio Center of Excellence, where engineers collaborate with medical researchers and clinicians to improve diagnosis and treatment of neurological disorders and cancer. For the details please visit us at:

<http://www.wright.edu/academics/bmil/>

<https://medicine.wright.edu/neuroscience-institute/neuroscience-engineering-collaboration-building>

**Qualifications:** The qualified candidates should have a strong background in Biomedical Engineering, Electrical Engineering, Physics, Optical Engineering or related fields. At least experience from one of the skills below is preferred.

- Experience with data acquisition card, LabView, instrumentation development, hardware control and signal acquisition.
- Strong programming skills and experience with Matlab.
- Design of optical systems, experience with opto-mechanical, electro-optic systems.
- Experience in CCD cameras, LEDs, lasers, structured light illumination, spatial light modulators (DMD), digital light projection (DLP), correlator board, photon counter and timer board, FPGA.
- Signal and image processing, data analysis methods, machine learning, deep learning.
- (Tissue) optics, biomedical optics, functional optical spectroscopy, functional near infrared spectroscopy.
- Neurophotronics, neurostimulation, neuromodulation techniques.
- Experience with animal experiments.

**To Apply:** Please email your CV and cover letter describing your background to:

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