

## Research Engineer Position in Optical Imaging Wright State University

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<b>Job Title</b>	Research Engineer Position in Optical Imaging
<b>Department</b>	Biomedical, Industrial and Human Factors Engineering <a href="https://medicine.wright.edu/neuroscience-institute/neuroscience-engineering-collaboration-building">https://medicine.wright.edu/neuroscience-institute/neuroscience-engineering-collaboration-building</a>
<b>Institution</b>	Wright State University Dayton, Ohio
<b>Date Posted</b>	Apr. 16, 2018
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Textile Engineering Structural Engineering Robotics Optics & Optical Engineering Nuclear Mechatronics Mechanical Engineering Engineering Physics Engineering Mechanics Electrical and/or Electronics Bioengineering (all Bio-related fields) Engineering - Other
<b>Job Website</b>	<a href="http://www.wright.edu/academics/bmil/">http://www.wright.edu/academics/bmil/</a>
<b>Apply By Email</b>	<a href="mailto:ulas.sunar@wright.edu">ulas.sunar@wright.edu</a>

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### Job Description

#### Research Engineer Position in Optical Imaging

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 optical imaging for cancer diagnosis, assessing the brain function as well as neuromodulation techniques to enhance neuronal activity. 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 lab and translational research by collaborating with scientists and clinicians 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:

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

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

Our Sample Publications:

Cancer Imaging: Nature Scientific Reports: <https://www.nature.com/articles/s41598-017-15790-y>

<https://www.osapublishing.org/boe/abstract.cfm?uri=boe-8-6-3045>

Functional brain Imaging: <http://onlinelibrary.wiley.com/doi/10.1002/jbio.201700165/abstract>

<https://www.osapublishing.org/boe/abstract.cfm?uri=boe-7-10-3871>

Qualifications: The qualified candidates should have a strong hardware engineering skills and background in Biomedical Engineering, Electrical Engineering, Physics, Optical Engineering or related fields. At least one of the skills below is required.

- Experience with diffuse reflectance spectroscopy, diffuse correlation spectroscopy, diffuse optical tomography.
- Experience in structured light illumination, spatial light modulators (DMD), digital light projection (DLP), correlator board, photon counter and timer board, FPGA.

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- Experience with LabView, instrumentation development, hardware control and signal acquisition.
- Design of optical systems, experience with opto-mechanical, electro-optic systems, CCD cameras, LEDs, lasers.
- Strong programming skills with Matlab, signal and image processing.
- (Tissue) optics, biomedical optics.

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

Ulas Sunar, PhD

Associate Professor, Dept. of Biomedical, Industrial & Human Factors Engineering

Ohio Research Scholar for Medical Imaging

BioMedical Imaging Lab:

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

Email: [ulas.sunar@wright.edu](mailto:ulas.sunar@wright.edu)

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Ulas Sunar  
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