



The new Department of Medical Engineering at the University of South Florida (USF) leads all university departments in extramural funding per faculty member and is a university priority and leader to establish world-class engineering research, education, and innovation.

The Auditory Development and Connectomics Laboratory, headed by Dr. George Spirou, in the Department of Medical Engineering, is advertising to hire an Electron Microscopy Applications Scientist (EMAS). The EMAS will lead tissue processing and imaging efforts to support large volume electron microscopy studies, and other work utilizing electron microscopy and electron tomography (ET). This position requires an in-depth knowledge of the breadth of EM imaging modalities and an ideal candidate will be capable of implementing and innovating novel tissue processing techniques for large tissue block staining and for combined light/electron microscopy (CLEM).

**Key Responsibilities:**

- Conduct experiments to fix and process brain tissue for large volume EM imaging, TEM, ET, and CLEM imaging
- Image brain tissue using EM/CLEM
- Evaluate image quality and analyze images utilizing free and commercially available software
- Remain up-to-date on current tissue fixation and labeling and EM/CLEM literature
- Innovate new techniques in the laboratory to improve tissue sample quality and efficiency of experimental procedures
- Support lab personnel by learning new techniques relevant to their experiments and assisting with their completion
- Implement new workflows relevant for tissue preparation, imaging, and image analysis
- Assist with light microscopy techniques, such as tissue clearing, immunohistochemistry, CLEM, and tissue image analysis

**Ideal candidates will have:**

Minimum Qualifications

- This position requires a bachelor's degree in a natural science and three years of research experience; or a master's degree in a natural science

Preferred Qualifications

- Postbaccalaureate training in Biology, Chemistry, Neuroscience, or related field
- At least three years in a laboratory environment

**How to Apply:**

Applicants must electronically submit the application packet to the following website: <http://www.usf.edu/administrative-services/human-resources/careers/> (**Applicants search Job Opening ID# 27101**). The packet must contain a complete CV and cover letter addressed to Dr. Robert Nichol.