



Job Posting: Staff Scientist, OSU Biomedical Imaging Center

Oklahoma State University is seeking applications for a staff scientist to help build and maintain the MRI and psychophysiological research infrastructure at the new OSU Biomedical Imaging Center. The candidate will help Center-affiliated faculty and staff conduct cutting edge research, particularly in the areas of infant brain development, substance use disorder, childhood adversity, pain, and depression. The new Center is located along the Arkansas River just a few miles south of Tulsa's new Gathering Place, in a 26,000 square foot building devoted to supporting OSU's National Center for Wellness and Recovery, OSU Brain Initiative, and multiple large NIH-funded projects, including the Center for Integrative Research on Childhood Adversity (CIRCA) and the Healthy Brain and Child Development (HBCD) study. The Center houses a new Siemens Prisma 3T MRI, full fluid-based biomarker processing and long-term storage lab, psychophysiology and EEG suites, and extensive clinical research space. Oklahoma State University is a vibrant and growing land-grant university that values diversity and scholarship. The Center for Health Sciences and the Biomedical Imaging Center are located in Tulsa, which has a metro population of almost 1 million people, a low cost of living, and a rich cultural life (VisitTulsa.com). For inquiries please reach out to kyle.simmons@okstate.edu. Please apply online at OSU Human Resources (<https://okstate.csod.com/ats/careersite/JobDetails.aspx?site=8&id=8854>).

Duties:

- Assist in the development and maintenance of the Center's technical infrastructure, including the equipment necessary to support research protocols (e.g., stimulus delivery, psychophysiological measurements inside or outside the scanner, simultaneous tDCS-MRI, etc.).
- Assist in the development of analysis pipelines, both locally at the Center, as well as in conjunction with colleagues in the Oklahoma State University High Performance Computing Center.
- Assist in coordination of Center technology, and transfer of research imaging data to OSU investigators.
- Work closely with OSU faculty and researchers to develop, maintain, and optimize research MRI protocols, particularly research imaging with infants and children.
- Assist OSU faculty in the analysis and interpretation of neuroimaging data.
- Assist other Center staff in maintaining regular QA monitoring of the MRI scanner.
- Attend required meetings and participate on committees as requested.
- Work as a team member within the OSU Biomedical Imaging Center and an 'extended team' member in the labs of research faculty affiliated with the Imaging Center.
- This position will also support/encourage the candidate's research interests. There will be opportunities to develop one's own research portfolio, with presentations at national/international meetings, and publication of scientific findings.
- This position will require someone who is self-directed, and excited about constantly tackling new challenges and learning new skills.

Minimum Qualifications (Knowledge, Skills, Abilities, Education, Experience, Certifications, Licensure)

- Master's degree
- At least two years experience working in biomedical research
- Must be proficient with Unix and shell scripting.
- Must be proficient in python programming or related programming languages (e.g., Matlab).
- Demonstrated written and verbal communications skills in English

Preferred Qualifications (Knowledge, Skills, Abilities, Education, Experience, Certifications, Licensure)

- Ph.D. in a field related to the computational aspects of biomedical research (e.g., computer science, bioinformatics, neuroscience, biomedical engineering, etc.).
- Experience with MRI and use of peripheral experimental instrumentation in the MRI environment.
- Experience in neuroimaging data analysis highly preferred