

Department of Radiological Sciences

Position: Postdoctoral in Deep Learning in Medical Image Processing

The Intelligent Medical Imaging Research lab at the Department of Radiological Sciences in the School of Medicine, UCI, is seeking a **Postdoctoral candidate in deep learning in Medical Image Processing**. The lab's focus is on motion-robust magnetic resonance imaging using pulse sequence design, image reconstruction, and real-time image processing, for brain, body, and fetal applications.

Responsibilities: The successful candidates will conduct experiments with MRI data for motion-robust image reconstruction, quality assessment, image harmonization, real-time image processing. The work includes working with various MRI techniques, including, specifically, diffusion MRI, functional MRI, and quantitative MRI, algorithm and software development, and preparing papers, presentations, and reports

Basic Qualifications:

PhD in electrical or biomedical engineering, medical physics, computer science, applied mathematics, or a related field, with experience in MRI, image processing, or medical imaging, and deep learning.

Preferred Qualifications:

Demonstrated deep knowledge and experience in magnetic resonance imaging.
Demonstrated experience in C++/Python/CUDA programming for deep learning.
Demonstrated development of new deep learning methods for MRI.
Experience in MRI image reconstruction; motion and distortion correction in MRI.
Track record of first-author publications in top peer-reviewed journals in the field.
Excellent scientific writing ability and oral communication skills.

Location: The **Intelligent Medical Imaging Lab** is in the Irvine Campus of UCI, situated in Orange County, year-round pleasant climate, and stunning Pacific Ocean locales. The area offers excellent recreational opportunities.

Application Procedure: The position is available immediately and will remain open until filled. Interested candidates should apply through UC Irvine's recruitment at:

<https://recruit.ap.uci.edu/JPF09488>

- * CV
- * Cover Letter
- * 3 References (Contact information only)
- * Statement of Research
- * Teaching Statement
- * Inclusive Excellence Activities Statement
- * Sexual Misconduct Declaration Form

UCI School of Medicine

Department of Radiological Sciences

Contact Information: For further information pertaining to this recruitment, please contact:

Shelley Mueller

HR Analyst

Mueller2@hs.uci.edu

714.509.6094

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC anti-discrimination policy.

As a condition of employment, the finalist will be required to disclose if they are subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct, are currently being investigated for misconduct, left a position during an investigation for alleged misconduct, or have filed an appeal with a previous employer.

- “Misconduct” means any violation of the policies or laws governing conduct at the applicant’s previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the employer.
- [UC Sexual Violence and Sexual Harassment Policy](#)
- [UC Anti-Discrimination Policy for Employees, Students and Third Parties](#)
- [APM - 035: Affirmative Action and Nondiscrimination in Employment](#).

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.