

**MEDICAL PHYSICS/BIOMEDICAL ENGINEERING  
POST-DOCTORAL RESEARCH FELLOWSHIP in CT IMAGING  
AT MAYO CLINIC in ROCHESTER, MN**

**Employer Description**

- Mayo Clinic is a not-for-profit worldwide leader in patient care, research and education.
- Mayo Clinic has been ranked by Fortune magazine as one of the 100 Best Companies to Work For consecutively for the last 10 years.
- Rochester, MN is continually ranked as one of the best small cities to live in. The big city amenities of Minneapolis and St. Paul are an easy drive of about 70 miles away.
- Mayo Clinic is an affirmative action, equal-opportunity educator and employer.

**Lab Description**

- The CT Clinical Innovation Center (<http://mayoresearch.mayo.edu/ctcic/>) is a leading translational and basic research lab in CT with extramural funding from multiple NIH grants and industry.
- Current projects include dual-energy and spectral CT, radiation dose-reduction technology, and quantitative evaluation of diagnostic performance using human and model observers.

**Job Description**

- We have openings for post-doctoral fellows in the field of x-ray computed tomography (CT) imaging.
- A medical physics or biomedical engineering background (image science, dosimetry, x-ray physics) is required. CT expertise is strongly preferred.
- The successful candidate will work with a highly productive team that includes four CT physicist faculty members and a large number of physician and basic scientist co-investigators.
- The successful candidate will be expected to make significant original contributions to the strategic research interests of the team and apply for extramural funding in the second year.
- Candidates should have a strong interest in a potential future career in academic CT physics, clinical CT support in a department with a research CT program, or industry

**Required Qualifications**

- A PhD in Medical Physics, Biomedical Engineering, Electrical Engineering, Applied Physics or a related field.
- Expertise in x-ray imaging physics or computed tomography data acquisition and image reconstruction.
- Knowledge of human or model observers, photon counting detector technology, iterative reconstruction or image denoising, or material decomposition analysis.
- A demonstrated record of research publications.
- Excellent oral and written communication skills.
- Proficiency in Matlab and C++ programming.
- The ability to present research results in a comprehensive and timely manner, both through verbal and written means.

**Salary, start date, and duration of position**

- Salary is competitive and commensurate with the qualifications.
- Position will be filled ASAP.

- The duration of the position is for one year with renewal opportunities for up to five years total.

**Interested candidates should apply via e-mail to [ctcic@mayo.edu](mailto:ctcic@mayo.edu) and include the following:**

- A resume or CV
- A statement of career goals (5 year horizon)
- A statement of relevant experience
- Three significant publications
- The names and contact information for three referees
- Their earliest availability.