

Postdoctoral Research Scientist
Columbia University in the City of New York

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Posted Apr. 7, 2025, set to expire Aug. 9, 2025

Job Title	Postdoctoral Research Scientist
Department	Biomedical Engineering https://www.bme.columbia.edu/
Institution	Columbia University in the City of New York New York, New York
Date Posted	Apr. 7, 2025
Application Deadline	May 8, 2025
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Electrical and/or Electronics Bioengineering (all Bio-related fields) Computer Science
Job Website	https://apply.interfolio.com/165889
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Job Description	

The Department of Biomedical Engineering is looking for a Postdoctoral Research Scientist to execute the harmonization of existing large cohorts of CT lung image data, acquired from multiple sites. To assist with the importation of said data into a database that will be shared among the medical community to understand and treat lung diseases processes such as COPD and emphysema.

1) Understand the structure of existing cohorts of lung CT images.

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- 2) Carry out quality control of lung CT images to ensure inclusion in deep learning models.
- 3) Understand and carry out the uploading / importation of large numbers of CT lung scans into a national archival database, and insure functionality, integrity and correctness of the data once in place.
- 4) Collaborate with data center coordinators to acquire and transfer new CT lung images into the national repository, once harmonized.
- 5) Provide timely updates on the status, identify any problems / bottlenecks regarding the timely progression / advancement of harmonization work at weekly research group meetings.

Qualifications

Must hold a doctoral degree or equivalent in the fields of Biomedical Engineering, Computer Science, Electrical Engineering or Data Science. Experience in programming in Python, C++, MatLab is desired. Experience in machine and deep learning models with a background in medical imaging.

Contact Information

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

Contact

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