

Research Scientist
Worcester Polytechnic Institute

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Posted Feb. 4, 2025, set to expire May 31, 2025

Job Title	Research Scientist
Department	
Institution	Worcester Polytechnic Institute Worcester, Massachusetts
Date Posted	Feb. 4, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics
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Job Description

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JOB TITLE

Research Scientist

LOCATION

Worcester

DEPARTMENT NAME

Electrical & Computer Engineering NFR - JM

DIVISION NAME

Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

Research Scientist Worcester Polytechnic Institute

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A highly-professional, trained individual is necessary to perform computational MEG/EEG source reconstruction tasks on meso-scale resolution head models.

JOB DESCRIPTION

A highly professional and trained individual is essential for performing computational MEG/EEG source reconstruction tasks. These tasks require advanced knowledge of both neurophysiology and computational techniques. The individual must be skilled in working with meso-scale resolution head models, which involve intricate details of the brain's structure. Such expertise is critical for ensuring accurate reconstructions and meaningful interpretations of neuroimaging data.

These tasks require a deep understanding of neurophysiology, including the complex interactions between neural activity and the electromagnetic fields measured by MEG and EEG. In addition, the individual must possess advanced computational skills to handle the sophisticated algorithms and software tools used in source reconstruction. The ability to work with meso-scale resolution head models is also crucial, as these models capture intricate details of the brain's structure, such as the positioning of different cortical layers and their electrical properties. This expertise is necessary for generating accurate reconstructions of brain activity, ensuring that the data derived from neuroimaging techniques can be interpreted meaningfully. Ultimately, the goal is to provide insights into brain function, which can be applied in areas such as clinical diagnostics, brain research, and neurostimulation.

FLSA STATUS

United States of America (Exempt)

WPI is an Equal Opportunity Employer that actively seeks to increase the diversity of its workplace. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. It seeks individuals with diverse backgrounds and experiences who will contribute to a culture of creativity, collaboration, inclusion, problem solving, innovation, high performance, and change making. It is committed to maintaining a campus environment free of harassment and discrimination.

To apply, visit: https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Research-Scientist_R0003060

About WPI

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WPI is committed to creating an inclusive workplace where everyone feels valued and respected; a place where every student, faculty and staff member can be themselves, so that they can study, live, and work comfortably, to reach their full potential, and make meaningful contributions in order to meet departmental and institutional goals. WPI thrives on innovative practice and welcomes diverse perspectives, insight, and people from diverse lived experiences, to enhance the community environment and propel the institution to the next level in a competitive, global marketplace.

Contact Information

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

Contact

N/A

Worcester Polytechnic Institute

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