# Post Doctoral Fellow
# Worcester Polytechnic Institute

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| **Job Title** | Post Doctoral Fellow |
| **Department** | Physics |
| **Institution** | Worcester Polytechnic Institute |
| | Worcester, Massachusetts |
| **Date Posted** | Apr. 30, 2025 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | Available immediately |
| **Job Categories** | Post-Doc |
| **Academic Field(s)** | Physics - General |
| | Computer/Information Sciences |
| **Apply Online Here** | https://apptrkr.com/6186214 |
| **Apply By Email** | |
| **Job Description** | |

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**JOB TITLE**
Post Doctoral Fellow

**LOCATION**
Worcester

**DEPARTMENT NAME**
Physics - NFR JM

**DIVISION NAME**

Responsibilities:

- Conduct original research focused on Machine Learning methodologies applied to soil subsurface assessment.
- Develop innovative algorithms and analytical methodologies for accurate characterization and evaluation of soil subsurface conditions.
- Actively collaborate with peers and team members within the SoilX laboratory to ensure integrated and cohesive research outcomes.
- Provide technical guidance and support to other graduate and undergraduate students engaged in related research within the SoilX lab.
- Regularly document research progress, analyze results, and prepare comprehensive reports.
- Write, edit, and contribute to the publication of scholarly articles and conference papers based on research findings.
- Participate in lab meetings, presenting research progress and engaging in collaborative discussions and critiques.
- Stay current with the latest developments and methodologies in Machine Learning, Artificial Intelligence, and soil science literature relevant to the research.

Qualifications:

- PhD or advanced graduate-level training in Computer Science, Data Science, Electrical Engineering, Environmental Science, or a closely related field.
- Demonstrated proficiency in Machine Learning techniques and algorithm development.
- Strong analytical and programming skills (e.g., Python, R, MATLAB).
- Previous experience in geosciences, environmental science, or soil science is highly desirable.
- Proven ability to produce scholarly publications.
- Strong interpersonal, collaborative, and communication skills.

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Preferred Experience:

- Familiarity with applications of Machine Learning to geospatial data and subsurface characterization.
- Experience working in interdisciplinary research teams.
- Track record of peer-reviewed publications and presentations at academic conferences.

**FLSA STATUS**
United States of America (Exempt)

**WPI is an Equal Opportunity Employer. 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 from all 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/Post-Doctoral-Fellow_R0003140

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environment and propel the institution to the next level in a competitive, global marketplace.

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**Contact Information**

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

**Contact**

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