

**Post Doctoral Fellow  
Worcester Polytechnic Institute**

Direct Link: <https://www.AcademicKeys.com/r?job=246805>

Downloaded On: Oct. 19, 2024 1:16pm

Posted Oct. 10, 2024, set to expire Feb. 5, 2025

<b>Job Title</b>	Post Doctoral Fellow
<b>Department</b>	Civil, Environmental and Architectural Engineering
<b>Institution</b>	Worcester Polytechnic Institute Worcester, Massachusetts
<b>Date Posted</b>	Oct. 10, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Civil Engineering
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**Job Description**

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**JOB TITLE**

Post Doctoral Fellow

**LOCATION**

**DEPARTMENT NAME**

Civil, Environmental and Architectural Engineering NFR - JM

**DIVISION NAME**

Worcester Polytechnic Institute - WPI

**JOB DESCRIPTION SUMMARY**

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The BMDL lab in the Department of Civil, Environmental & Architectural Engineering at WPI is seeking a highly motivated and qualified postdoctoral researcher to support, conduct, and publish research to find, make, and promote new construction materials that act as carbon sinks. The successful candidate will also help with educational activities in the Environmental Engineering Laboratory. This position is ideal for a recent PhD graduate with a strong background in engineering, chemistry, and analytical chemistry, with a specific interest in applying their expertise to the frontiers of engineering materials. The applicant would be expected to play a key "hands-on" role in various research efforts in the department and would be given the opportunity to develop their own research direction.

### **JOB DESCRIPTION**

#### **Responsibilities:**

- Manage operations of the BMDL Laboratories, ensuring efficient use of equipment and maintaining a safe and productive work environment.
- Working and supervising undergraduate and graduate research assistants in the laboratory and providing guidance in conducting research projects.
- Help the teaching efforts in the environmental engineering laboratory (undergraduate lab courses).
- Maintain and operate all laboratory instrumentation, including ICP-MS, ICS, GC-MS, TOC, etc., and train users in proper operation.
- Be aware of all lab safety requirements and protocols, and lead safety training sessions for lab users.
- Collaborate with the supervising faculty member on grant proposals and research publications.
- Conduct independent research in areas of expertise, leading to peer-reviewed publications.
- Maintain laboratory records and prepare reports as required.

#### **Qualifications:**

- Recent PhD in Material Science, Environmental Eng., Civil Eng., Chemistry, Biochemistry, Chemical Eng. or a closely related field.
- Strong foundation in chemical, physical, and biochemical principles in the environmental area.
- Excellent laboratory skills and experience with various analytical techniques used in environmental engineering.
- Effective communication, interpersonal, and leadership skills with the ability to mentor and motivate research assistants and work with students in a classroom setting.

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- Strong work ethic, ability to manage multiple tasks, and a commitment to high-quality research.
- Experience with grant writing and scientific publication is a plus.

### 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/Post-Doctoral-Fellow\\_R0002975](https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Post-Doctoral-Fellow_R0002975)

### About WPI

WPI is a vibrant, active, and diverse community of extraordinary students, world-renowned faculty, and state of the art research facilities. At WPI, we have competitive and comprehensive benefits, including health insurance, long-term care, retirement, tuition assistance, flexible spending accounts, work-life balance and much more.

### Diversity & Inclusion at WPI

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



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

**Contact**

N/A

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