

Post-Doctoral Fellow
Worcester Polytechnic Institute

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| Job Title | Post-Doctoral Fellow |
| Department | Biology & Biotechnology |
| Institution | Worcester Polytechnic Institute Worcester, Massachusetts |
| Date Posted | Jul. 18, 2024 |
| Application Deadline | Open until filled |
| Position Start Date | Available immediately |
| Job Categories | Post-Doc |
| Academic Field(s) | Biology - Computational Biology - General |
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JOB TITLE

Post-Doctoral Fellow

LOCATION

Worcester

DEPARTMENT NAME

Biology & Biotechnology NFR - JM

DIVISION NAME

Post-Doctoral Fellow Worcester Polytechnic Institute

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Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

We are seeking a highly motivated and innovative Postdoctoral Researcher to join the McNally Lab (<https://wp.wpi.edu/mcnallylab/>) at Worcester Polytechnic Institute (WPI). This position offers an exciting opportunity to work at the intersection of quantitative imaging, genetics, computational simulations, and modeling to investigate the fascinating question of how cells control the sizes of their cytoskeletal components.

The successful candidate will collaborate closely with a multidisciplinary team of researchers to design, execute, and analyze experiments that provide insights into the regulation of cytoskeletal elements within the cell. This research involves the integration of quantitative imaging techniques, genetic manipulation, computational simulations, and mathematical modeling to decipher the mechanisms underlying cytoskeletal size control.

JOB DESCRIPTION

Responsibilities will include:

- Utilize advanced quantitative imaging techniques to visualize and analyze cytoskeletal structures within living cells.
- Perform genetic perturbations to manipulate cytoskeletal components and assess their impact on cell behavior.
- Develop and implement computational simulations and modeling approaches to understand the regulatory networks controlling cytoskeletal size.
- Collaborate with other team members to generate and test hypotheses, interpret results, and present findings.
- Publish research findings in peer-reviewed journals and present at conferences.

Candidates should have the following qualifications:

- Ph.D. in a relevant field (Cell Biology, Biophysics, Computational Biology, etc.).
- Strong background in quantitative imaging, genetics, and computational modeling.
- Proficiency in data analysis and relevant software tools.
- Demonstrated ability to work effectively in a collaborative research environment.
- Excellent communication skills and a track record of scientific publications.

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Review of applications will begin immediately and continue until the position is filled. Interested candidates should submit the following documents:

- A cover letter outlining their research interests and qualifications.
- Current CV with a list of publications.
- Contact information for three professional references.

The McNally Lab at Worcester Polytechnic Institute (WPI) is dedicated to advancing our understanding of fundamental cellular processes. We are committed to fostering a collaborative and inclusive research environment, and we welcome candidates from diverse backgrounds to apply.

Join us in exploring the intricate mechanisms by which cells control the sizes of their cytoskeletal structures. Your contributions will play a crucial role in advancing our knowledge of cell biology and have the potential to shape the future of therapeutic interventions.

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/Post-Doctoral-Fellow_R0002607

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

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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.

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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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