Postdoctoral Scholar in Thermal-Fluid-Energy Microsystems
Stevens Institute of Technology

Job Title Postdoctoral Scholar in Thermal-Fluid-Energy Microsystems
Department Mechanical Engineering
Institution Stevens Institute of Technology
Hoboken, New Jersey

Date Posted Oct. 8, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Engineering Mechanics
Engineering Physics
Mechanical Engineering

Job Website https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Postdoctoral-Scholar-in-Thermal-Fluid-Energy-Microsystems_RQ29637

Apply By Email

Job Description

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The Department of Mechanical Engineering at Stevens Institute of Technology is seeking a highly motivated and talented Post-Doctoral Scholar to join a cutting-edge project focused on developing a new class of thermal diodes. The research will investigate condensation and evaporation heat transport mechanisms through heterogeneous nanostructures under varying temperature gradients.

Key Responsibilities

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- Conduct advanced micro/nano-fabrication and fluid/thermal experiments at the micro/nanoscale.
- Analyze experimental results and perform heat transfer modeling and analysis.
- Prepare and publish high-quality research papers in peer-reviewed journals.
- Develop and deliver presentations for conferences, seminars, and project updates.
- Contribute to the preparation of research proposals and grant applications.
- Mentor and supervise graduate and undergraduate researchers.
- Collaborate effectively with interdisciplinary research teams within and outside Stevens.

Qualifications

- Ph.D. in Mechanical Engineering, Materials Science, Chemical Engineering, Physics, or a related field.
- Strong background in heat transfer, thermofluids, or nanoscale energy transport.
- Hands-on experience with micro/nanofabrication techniques and thermal/fluidic experiments.
- Demonstrated record of research publications in relevant areas.
- Excellent communication, teamwork, and mentoring skills.

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Department

Mechanical Engineering

Compensation Range

In compliance with the New Jersey Wage Transparency Act, the annual base range for this position is $56,000-$60,000. This range represents the University's good faith estimate of possible compensation at the time of posting. Stevens Institute of Technology determines compensation based on factors including the position's scope and responsibilities, the candidate's experience, education, skills, internal equity, market data, and organizational considerations. The final salary will be set considering departmental budget, qualifications, and relevant credentials. This pay range represents base pay only and excludes additional forms of compensation, such as incentives, stipends, or other applicable pay components.

General Submission Guidelines:

Please submit an online application to be considered a candidate for any job at Stevens. Please attach a cover letter and resume with each application. Other requirements for consideration may depend on the job.

Still Have Questions?

If you have any questions regarding your application, please contact Jobs@Stevens.edu.

Contact Information

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

Contact

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