

Research Scientist, Chemical Engineering and Materials
Science
Stevens Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=258755>

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Posted Jun. 26, 2025, set to expire Oct. 26, 2025

Job Title Research Scientist, Chemical Engineering and Materials
Science

Department

Institution Stevens Institute of Technology
Hoboken, New Jersey

Date Posted Jun. 26, 2025

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Material/Metallurgy
Chemical/Petroleum

Job Website https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Research-Scientist--Chemical-Engineering-and-Materials-Science_RQ29232-2

Apply By Email

Job Description

Job Description

The Hensley Catalysis Lab, led by Professor Alyssa Hensley in the Department of Chemical Engineering and Materials Science (CEMS), invites applications for a Research Scientist position in the field of computational heterogeneous catalysis. The successful candidate will conduct original and innovative research focusing on:

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Mapping the nanoscale reaction mechanism for carboxylic acid upgrading to green hydrogen over platinum-based catalysts.

- Applying state-of-the-art approaches to transition state identification in computational catalysis applications.

This part-time position is six-week appointment starting July 14, 2025, or later, and is suited for a highly motivated researcher aiming to thrive in a dynamic and fast-paced research environment.

Duties and Responsibilities

- Perform fundamental research into catalyst design and performance for green hydrogen production.
- Lead investigation into the dominant, nanoscale reaction mechanisms for acetic and glycolic acid upgrading to green hydrogen over platinum-based catalysts using DFT implemented in VASP.
- Collaborate closely with graduate students and other research staff.
- Contribute to scholarly publications.

Required Qualifications

- M.S. in Materials Science and Engineering, Chemical Engineering, or related field by the time of appointment.
- Background in computational modeling for heterogeneous catalysis (DFT, AIMD, VASP, Python, HPC, Bash).

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Chemical Engineering and Material Science

Compensation Range

In compliance with the New Jersey Wage Transparency Act, the bi-weekly base range for this position is \$28.00 - \$35.32. 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. For a full overview of our benefits offerings, please refer to the Stevens Institute of Technology Benefits Guidebook, available at:

[Benefits Guidebook](#)

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.

EEO Statement:

Stevens Institute of Technology is an Equal Opportunity Employer. Accordingly, Stevens adheres to an employment policy that prohibits discriminatory practices or harassment against candidates or employees based on legally impermissible factor(s) including, but not necessarily limited to, race, color, religion, creed, sex, national origin, nationality, citizenship status, age, ancestry, marital or domestic

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partnership or civil union status, familial status, affectional or sexual orientation, gender identity or expression, atypical cellular or blood trait, genetic information, pregnancy or pregnancy-related medical conditions, disability, or any protected military or veteran status.

Stevens is building a diverse faculty, staff, and student body and strongly encourages applications from people of all backgrounds. Stevens is a federal contractor under the Vietnam Era Veterans' Readjustment Assistance Act (VEVRAA) and the Rehabilitation Act of 1973, as well as other federal statutes.

NSF ADVANCE Institution

Stevens values diversity and seeks candidates who will contribute to a welcoming and inclusive environment for students, faculty, and staff of all backgrounds. We are an NSF ADVANCE institution committed to equitable practices and policies and strongly encourage applications from women, racial and ethnic minority candidates, veterans, and individuals with disabilities.

Jeanne Clery Disclosure:

In accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act), the Department of Public Safety is required to publish an annual security report which includes statistics mandated by the Clery Act. Click [here](#) for a copy of this report.

Contact Information

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

Contact

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