

Teaching Assistant/Associate Professor -- Chemistry and
Chemical Biology
Stevens Institute of Technology

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Posted Oct. 25, 2024, set to expire Jul. 12, 2025

Job Title Teaching Assistant/Associate Professor -- Chemistry and
Chemical Biology

Department Chemistry and Chemical Biology

Institution Stevens Institute of Technology
Hoboken, New Jersey

Date Posted Oct. 25, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Assistant Professor
Associate Professor

Academic Field(s) Computer/Information Sciences
Chemistry - General
Biology - Computational
Biology - Genetics
Biology - General

Job Website https://stevens.wd5.myworkdayjobs.com/External/job/Hoboken-NJ---Main-Campus/Teaching-Assistant-Associate-Professor----Chemistry-and-Chemical-Biology_RQ28681

Apply By Email

Job Description

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The Department of Chemistry and Chemical Biology (CCB) in the Schaefer School of Engineering and Science (SES) at Stevens Institute of Technology (Stevens) invites applications for a Teaching

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Assistant or Associate Professor in Chemical Biology in the area of genomics with a specialization in Artificial Intelligence (AI) and Machine Learning (ML). We are seeking a passionate educator dedicated to delivering high-quality instruction, curriculum development, and experiential learning experience. The successful candidate will focus on enhancing our Chemical Biology programs and equipping students with the skills needed to succeed in AI/ML applications within the genomics field and at the interface between drug discovery and clinical research through collaboration.

Responsibilities:

- **Teaching & Curriculum Development:**

- Deliver engaging and effective undergraduate and graduate courses in bioinformatics, biostatistics, and population genomics, particularly emphasizing AI/ML techniques and tools.
- Develop and update course materials to reflect current industrial trends in genomics and AI/ML, ensuring courses are skill-based and accessible to students.
- Employ innovative teaching methodologies, including online and hybrid learning models, to enhance student engagement and learning outcomes.

- **Student Research Mentorship & Advising:**

- Provide research and career advising to students as a faculty advisor, guiding them on coursework, research projects, and career opportunities in genomics and AI/ML.
- Supervise undergraduate and master's level research projects, both individual and group, especially senior capstone research projects and master's special problems courses. Support students' development of practical skills in genomics.
- Develop a thematic and sustainable research portfolio that would facilitate the research experience of undergraduate and Master students and that would be supported by foundations, industry, and government.

- **Service & Community Engagement:**

- Contribute to departmental activities, such as student recruitment, skill-based curriculum planning, and program assessment.
- Participate, as a thought leader, in university and community outreach to promote genomics and AI/ML, engaging with industry partners and other stakeholders.
- Serve on departmental or university committees as needed, contributing to the governance and strategic direction of the institution.

Required Education and Experience:

- **Education:**

- Advanced degree (Ph.D. degree preferred, M.S. level considered) in Genomics, Computer Science, Data Science, or a related field, with a strong research background in AI/ML.

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• **Experience & Skills:**

- Demonstrated teaching experience at the university level, with a commitment to high-quality, student-centered and skilled-based instruction.
- Proficiency in programming languages (e.g., Python, R, MATLAB) and familiarity with AI/ML frameworks (e.g., TensorFlow, PyTorch).
- Strong interpersonal and communication skills, with a commitment to fostering an inclusive and supportive academic environment.
- Industrial and leadership experience in the biopharma and biomedical research sectors, with insights into the practical applications of genomics and AI/ML in the industry.

• **Desirable:**

- Interest in conducting research with students, helping them gain hands-on experience and contributing to practical applications in genomics and AI/ML.
- Experience in leveraging modern computational methods such as multi-omic analysis, AlphaFold, and other advanced bioinformatics tools.
- Interest in writing educational research grants to enhance genomics education and secure funding for program initiatives.
- Experience in curriculum development and a proven track record of using innovative teaching techniques.
- Engagement with professional organizations or initiatives related to bioinformatics, AI/ML, or data science education.
- Interest in developing interdisciplinary collaborations within the university and with external partners.

Academic Submission Guidelines:

To apply, please submit the following items as a **single** PDF file:

- Cover Letter
- Curriculum Vitae
- Teaching Statement that includes a) teaching interests, b) teaching philosophy, and c) a plan on how to create an inclusive environment for students of all backgrounds in terms of classroom teaching, undergraduate and master's level research, and student advising, and graduate student mentoring
- Contact info for at least three references

For any questions, please contact the Search Committee Chair, Patricia Muisener, at pmuisene@stevens.edu

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Department

Chemistry and Chemical Biology

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.

Academic Submission Guidelines:

Please submit:

- Cover letter
- Curriculum vitae
- Research statement
- Teaching statement that includes a) teaching interests, b) teaching philosophy, and c) a plan on how to create an inclusive environment for students of all backgrounds in terms of classroom teaching, student advising, and graduate student mentoring
- Contact info for at least 2-3 references (school-specific; please refer to job posting)

Still Have Questions?

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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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