

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

Direct Link: <https://www.AcademicKeys.com/r?job=247663>

Downloaded On: Nov. 21, 2024 10:58am

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](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**

### Job Description

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](mailto: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](mailto:Jobs@Stevens.edu).

**Contact Information**

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

**Contact**