

## Post-Doctoral Researcher in Molecular Simulations University of Rochester

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Posted Sep. 28, 2020, set to expire Jan. 28, 2021

<b>Job Title</b>	Post-Doctoral Researcher in Molecular Simulations
<b>Department</b>	Chemical Engineering <a href="http://www.hajim.rochester.edu/che/">http://www.hajim.rochester.edu/che/</a>
<b>Institution</b>	University of Rochester Rochester, New York
<b>Date Posted</b>	Sep. 28, 2020
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Computer Engineering Computer Science Chemical/Petroleum Engineering - Other
<b>Job Website</b>	<a href="http://thewhitelab.org/Openings/">http://thewhitelab.org/Openings/</a>
<b>Apply By Email</b>	<a href="mailto:andrew.white@rochester.edu">andrew.white@rochester.edu</a>

### Job Description

Looking for a postdoctoral researcher who is an expert in molecular simulation, deep learning in chemistry, or computational structural biology. Under mentor-ship, you will develop and apply deep learning methods to molecular simulation and modeling of proteins and protein-protein interactions. Expertise in deep learning is not required, though is a strength. This is a multi-year project with a long-term goal towards advancing ML and AI methods for deep learning and meta-learning in structural biology. These methods reduce the amount of data necessary to apply supervised learning to applications where there are only tens to hundreds of data points. Examples include developing peptide drugs, antibody design, multi functional biomaterials, and resolving intrinsically disordered protein conformations. As a postdoctoral researcher, you will mentor graduate students, lead

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independent projects, and collaborate in research planning.

Requirements: Candidates should have a PhD degree in chemical engineering, chemistry, physics, computer science or related area. You should have multiple peer-reviewed publications in addition to a PhD. You should have demonstrated expertise in statistical mechanics or statistics. Expertise in biochemistry and/or deep learning is a strength. Candidate should have experience in scientific software best-practices, including version control, testing, and software collaboration. A GitHub account or similar project portfolio is required.

This position is open immediately and candidates should be prepared to start remotely. Starting date is negotiable, and candidates will be evaluated until the position is filled. The initial appointment will be 1 year and is renewable. Salary is set by NIH guidelines on postdoctoral research salary. All nationalities are welcome to apply and will be considered. Minority and women candidates are especially encouraged to apply. To apply, please send an email to Andrew White with the subject "Postdoc Search 2020" and describe your interest in the position and attach (1) curriculum vitae, (2) an example of a recent publication authored by you and (3) an example of a scientific software, preferably your GitHub username

### **EEO/AA Policy**

The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University of Rochester is an Equal Opportunity Employer.

### **Contact Information**

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

**Contact**     Andrew White  
                  Chemical Engineering  
                  University of Rochester  
                  4510 Wegmans Hall  
                  PO Box 270166

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Rochester, NY 14627

<b>Phone Number</b>	585.276-7395
<b>Fax Number</b>	585.273.1348
<b>Contact E-mail</b>	andrew.white@rochester.edu