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## Postdoctoral position in molecular modeling/computational biophysics

A postdoctoral position is available in the chemistry department at Georgia State University in Atlanta, GA, USA. The position will focus on computational modeling of protein complexes involved in genome maintenance and gene expression. The work involves large-scale molecular dynamics simulations and the application of advanced modeling techniques to incorporate experimental data, specifically from cryo-electron microscopy, into structural models of biological assemblies. Candidates will have the opportunity to learn state-of-the-art simulation and analysis methods and collaborate with leading experimental groups. Significant supercomputing resources will be made available to carry out the project. For an additional perspective on this research, candidates are encouraged to visit our group website (<https://ivanov-group.org>). The position is supported by federal funding from the National Institutes of Health and the National Science Foundation.

Required qualifications:

- PhD in computational chemistry, biophysics, computational biology or a related discipline
- A strong background (and publication record) in molecular dynamics, enhanced sampling methods, free energy calculations and data analysis
- Coding and scripting experience (e.g. Python or C/C++)

Desired qualifications:

- Familiarity with molecular modeling and visualization packages (e.g. NAMD, AMBER, VMD, PyEmma, UCSF Chimera), good analytical and communication skills
- Experience with chain-of-replicas path optimization methods

To be considered, please send a **cover letter with a summary of research experience** and a **CV with a full list of publications** together with **names and contact details of three references** to Prof. Ivaylo Ivanov ([iivanov@gsu.edu](mailto:iivanov@gsu.edu)). After initial screening of applications, letters of reference will be requested on behalf of competitive candidates.

Initial appointment is for one year, renewable upon mutual agreement. Georgia State University is located in Atlanta - a multicultural city and one of the major metropolitan areas in the USA.

### Contact:

Prof. Ivaylo Ivanov

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