

NYU
上海SHANGHAI
纽约大学

NYU-ECNU

Center for Computational Chemistry
at NYU Shanghai

Postdoctoral Fellowship of Theoretical and Computational Chemistry NYU Shanghai

Job Description

NYU Shanghai welcomes applications for postdoctoral fellowships in the research group of Prof. Xiang Sun.

The selected individual will play a leading role in developing and applying new computational methods for chemical dynamics in condensed phase and simulation of ultrafast nonlinear spectroscopies. Specifically, photo-induced charge and energy transfer dynamics as well as structural dynamics of light-harvesting systems such as organic photovoltaic and luminescent molecules in liquid solutions and interfaces will be investigated. Classical molecular dynamics, mixed quantum-classical, semiclassical, and path integral approaches will be developed for such systems. Novel dynamical methods will be applied to nonlinear spectroscopies to help reveal important molecular information behind them. More details can be found at <https://wp.nyu.edu/xiangsun>.

Research at NYU Shanghai is supported by the NYU-ECNU Center for Computational Chemistry, a research institute operated jointly by NYU, NYU Shanghai, and East China Normal University (ECNU). The center has a core group of faculty members who are conducting frontier research in various fields of computational chemistry, biology, and material sciences. The postdoc fellow will be also affiliated with the center. More details can be found at <https://research.shanghai.nyu.edu/chemistry>.

Qualifications

- Ph.D. (or expected) in chemistry, physics, or related fields
- Experience with molecular dynamics simulations and quantum chemistry calculations
- Experience with developing dynamics codes in C/C++, Fortran, or Python
- Excellent communication skills (writing and speaking in English)

Application process

The fellowship position is available immediately and will remain open until filled. The term is for one year initially with possibility of extension. Benefits and salary are competitive. To be considered, applicants should prepare: (1) a cover letter with a brief description of research accomplishments and interests; (2) a *curriculum vitae* with a list of publication; (3) contact information for three references. Please send these directly by email to Prof. Xiang Sun at xiang.sun@nyu.edu.

Please visit our website at <http://shanghai.nyu.edu/about/work/fellowships> for the availability of this opening. If you have any questions, please e-mail xiang.sun@nyu.edu.

About NYU Shanghai

NYU Shanghai is the third degree-granting campus within New York University's global network. It is the first higher education joint venture in China authorized to grant degrees that are accredited in the U.S. as well as in China. All teaching is conducted in English. A research university with liberal arts and science at its core, it resides in one of the world's great cities with a vibrant intellectual community. NYU Shanghai recruits scholars *of the highest caliber* who are committed to NYU's global vision of transformative teaching and innovative research and who embody the global society in which we live.

NYU's global network includes degree-granting campuses in New York, Shanghai, and Abu Dhabi, complemented by eleven additional academic centers across five continents. Faculty and students circulate within the network in pursuit of common research interests and cross-cultural, interdisciplinary endeavors, both local and global.

NYU Shanghai is an equal opportunity employer committed to equity, diversity and social inclusion. We strongly encourage applications from individuals who are under-represented in the profession, across color, creed, race, ethnic and national origin, physical ability, and gender and sexual identity. NYU Shanghai affirms the value of differing perspectives on the world as we strive to build the strongest possible university with the widest reach.

EOE/AA/Minorities/Females/Vet/Disabled/Sexual Orientation/Gender Identity Employer