

Postdoctoral Research Fellow in Simulations of Heterogeneous Catalysis through Artificial Intelligence

Job description:

A joint postdoctoral position is now available in the [Li's Group](#), School of Materials Science and Engineering, Nanyang Technological University (NTU), Singapore. The prospective research fellow will solve assigned heterogeneous catalytic problems by performing *ab initio* calculations and developing corresponding machine learning methods under the supervision of Associate Professor [Li Shuzhou](#) and Assistant Professor [Xia Kelin](#). A solid background of candidate in catalysis, computational chemistry and programming is required, while the knowledge on machine learning is desired, but not mandatory. The initial period of employment would be one year, with possible extensions upon performance and funding. For inquiring further information, please contact [Prof. Li](#).

Qualifications:

Candidates should have

- A Ph.D degree in material, chemistry, chemical engineering, physics or other related fields.
- An excellent track record of academic and research.
- Experience in first principle calculations, electronic structures and energy potential surface analysis.
- At least one skilled programming language such as C++, python, Fortran etc.
- Good English communication and written skill.

Application:

Qualified Candidates should send their application emails along with CV to [Prof. Li](#). Only candidates on the shortlist will be replied.

About NTU:

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 33,000 undergraduate and postgraduate students in the Engineering, Business, Science, Humanities, Arts, & Social Sciences, and Graduate colleges. It also has a medical school, the Lee Kong Chian School of Medicine, established jointly with Imperial College London.

Ranked amongst the world's top universities by QS, NTU has also been named the world's top young university for the past seven years. The University's main campus is frequently listed among the Top 15 most beautiful university campuses in the world and has 57 Green Mark-certified (equivalent to LEED-certified) buildings, of which 95% are certified Green Mark Platinum. Apart from its main campus, NTU also has a campus in Novena, Singapore's healthcare district.

Under the NTU Smart Campus vision, the University harnesses the power of digital technology and tech-enabled solutions to support better learning and living experiences, the discovery of new knowledge, and the sustainability of resources.

For more information, visit www.ntu.edu.sg