

[Norwegian University of Science and Technology \(NTNU\)](#)  
Faculty of Engineering Science and Technology  
[NTNU Nanomechanical Lab](#)



## Post-doctoral Position — Molecular Dynamics Simulation Based Multiscale Modeling

*The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines ranging from the social sciences, the arts, medicine, teacher education, architecture to fine art. Cross-disciplinary cooperation results in innovative breakthroughs and creative solutions with far-reaching social and economic impact. Two professors at NTNU received Nobel Prize in 2014.*

The Norwegian University of Science and Technology (NTNU, Trondheim, Norway), Faculty of Engineering Science and Technology, [NTNU Nanomechanical Lab](#), offers a full-time 3-year post-doctoral position in molecular dynamics simulation based multiscale modeling. The position is funded by NTNU and intended to give an excellent candidate an opportunity to pursue high quality research within the field of **From Molecular Structures to Mechanical Properties**. The position is available from 1<sup>st</sup> March 2015 or as soon as possible thereafter. [NTNU Nanomechanical Lab](#) was established in 2006 and currently has more than 10 motivated PhD students focusing on various aspects of computational and experimental nanomechanics with latest results published in world-class journals such as *Nano Letters*, *SMALL*, *Journal of the American Chemical Society (JACS)*, *Journal of Mechanics and Physics of Solids (JMPS)*, *Polymer*, and *Acta Materialia*. We offer exciting and challenging research tasks; internationally oriented, skillful, experienced, and creative research team; and well-established national and international scientific and industrial network.

The post-doctoral applicants must hold a PhD degree within a discipline relevant to the field, such as mechanics, materials sciences, physics, chemistry or nanotechnology. PhD students in their last minute are also invited to apply; a recommendation letter or a support letter which states the PhD disputation date within next six month must then be provided along with application from PhD supervisor. Applicants who do not master a Scandinavian language must document a thorough knowledge of English.

Complete applications should include:

- A brief statement of research interest
- A short introduction of PhD work / research projects
- A full CV with publication list and other scientific works
- Certified copies of transcripts, certificates and diplomas
- A short research plan
- Recommendation letters, names and contact information of two references

The candidate will be required to work in Trondheim at the Department of Structural Engineering, NTNU. A statement on when the applicant can start in the position if selected should be supplied.

Depending on qualifications and academic background, Post-doctoral candidate will be remunerated at wage code 1352 – levels 57 to 77 on the Norwegian State salary scale, with gross salary from NOK **482500** to NOK 710100 per year, of which 2% is deducted for the Norwegian Public Service Pension Fund. Normal wage level is 57-62. A yearly amount for operating costs will be added.

Engagement as a Postdoc is done in accordance with “Regulation concerning terms and conditions of employment for the posts of post-doctoral research fellow, research fellow, research assistant and resident”, given by the Ministry of Education and Research of 19.07.2010. The engagement is to be made in accordance with the regulations in force concerning State Employees and Civil Servants. The position adheres to the Norwegian Government’s policy of balanced ethnicity, age and gender. Persons with immigrant background and women are encouraged to apply. According to the new Freedom of Information Act, information concerning the applicant may be made public even if the applicant has requested not to be included in the list of applicants.

The application with attachments should be submitted electronically via <http://www.jobbnorge.no>. In case of questions, please contact Assoc. Prof. Jianying He, [jianying.he@ntnu.no](mailto:jianying.he@ntnu.no), 73594686; Prof. Zhiliang Zhang, [zhiliang.zhang@ntnu.no](mailto:zhiliang.zhang@ntnu.no), 73592530. **Please notice that applications sent by email will not be considered.**

**Application deadline: November 30<sup>th</sup> 2014.**