Opening of computational postdoctoral position on SNFS-GAČR project "Nanoscale friction control of layered transition metal dichalcogenides" Czech Technical University in Prague, Czech Republic

Job description

Applications are invited for 1 computational postdoctoral researcher in the Advanced Materials Group (AMG) at the Czech Technical University in Prague (Czech Republic) to work on the SNFS-GAČR funded project **"Nanoscale friction control of layered transition metal dichalcogenides"**, in collaboration with the Nanolino group at the University of Basel (Switzerland). The goal of the project is to develop an "on-demand" control of nanoscale friction in transition metal dichalcogenides (TMDs), and to individuate optimal electrostatic and electromagnetic stimuli to be used as external "knobs" at user's disposal.

Postdoctoral fellow at CTU will deal with the development of quantum mechanical models based on Density Functional Theory, under the supervision of Assoc. Prof. Antonio Cammarata. The research will be carried out thanks to the access to High Performance Computing (HPC) centers.

Job requirements

Mandatory: 1) Strong background in Physics, Chemistry, Materials Science or closely related disciplines; 2) Strong background in solid-state density functional theory; 3) Excellent oral and written communication skills in English; 4) Proficiency in using Linux environment and shell scripting.

Desirable: 1) Experience in using large-scaling DFT methods; 2) Programming experience in widely-used scientific languages (Fortran, C, C++) 3) Ability to perform calculations on Linux-based HPC architectures.

Contract details

The postdoctoral position is funded for 2 years, with 1-year extension offered based on the performance. The salary is based on the guidelines and rules for employees in GAČR-funded projects.

How to apply: https://nano.cvut.cz/jobs-opportunities

The call is open immediately and applications are received until positions are filled. Your application must include a cover letter including motivation (up to 2 pages) and a structured CV including the following: list of publications, reference contacts, and proof of completed PhD. Please direct all correspondence to Antonio Cammarata cammaant@fel.cvut.cz with email subject "[SNFS-GACR] application for postdoc position".