

Call for Postdoctoral position in the field of ultracold atomic gases and nuclear theory

Job Description:

The successful candidate will be investigating dynamical properties of strongly interacting fermionic superfluids being far from equilibrium state. In particular, he/she is expected to pursue studies of dynamics of quantum atomic gases (vortex and soliton dynamics, quantum turbulence) and/or dynamics of neutron star interiors, within the framework of the density functional theory, in particular with its time dependent version. Inevitably, high performance computing (HPC) will be essential part of the researches. Presently we use one of the fastest computing systems, like Piz Daint (CSCS, Switzerland), Titan (ORNL, USA) and Tsubame3.0 (GSIC Center, Japan). The candidate will be also partly involved in the software development for such systems. The position assumes also very strong collaboration with our partners from USA and Japan.

The successful candidate will be employed as a research assistant professor within the project: *Investigation of quantum turbulence in strongly correlated Fermi systems* (National Science Center grant), for a minimum period of 12 months, which can be extended up to 42 months.

Requirements:

Applicants must have a Ph.D. degree, or foreign equivalent, and a strong record of published research in condensed matter theory or in nuclear theory. We are looking for a candidate with knowledge of methods of many body quantum mechanics and possessing programming skills in C or Fortran. Knowledge of MPI or CUDA as well as experience with supercomputing will be an advantage.

Employment status: Full-time, position starts July 01, 2018.

Salary: Depends on qualifications. From 8,000 to 10,000 PLN per month (before taxes).

Application details:

The applications including CV, publication list and research statement should be submitted to ntg@if.pw.edu.pl. Please include the subject 'postdoc' in your email. At least one recommendation letter send by an external researcher is expected.

Application deadline: May 15, 2018. Latter applications may also be considered.

Please include in your application the following statement: "In accordance with the personal data protection act from the 29th of August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes".

Contact:

For more information contact Gabriel Wlazłowski, email: gabrielw@if.pw.edu.pl

To get more information about the group profile visit:

<http://nuclear.fizyka.pw.edu.pl/>