



# Institute of Physics of the Polish Academy of Sciences

## OPEN POSITION



**Job ID: #JOB18/2018**

### Job Description

**Job Title:** Postdoctoral researcher in the theory of ultra-cold atoms

**Job Summary:**

Theoretical research on applications of ultra-cold atomic gases in the field of quantum metrology.

**Job Description:**

The postdoctoral researcher will be involved in realisation of the project "Entangled states for quantum metrology" funded by National Science Center, and will join a group working on the theory of multicomponent Bose-Einstein condensates. The main topic will be understanding of various aspects of decoherence on the spin-squeezed and entangled states generation with bimodal and spinor condensates.

Profile of the candidate:

- PhD degree in theoretical physics,
- research experience; background in physics of ultra-cold atoms, quantum information theory or quantum metrology will be advantageous,
- numerical modeling and programming skills,
- very good spoken and written English.

**Main research field:** Physics

**Sub Research Field:** Quantum mechanics

**Career Stage:** Experienced researcher or 4-10 yrs (Post-Doc)

**Research Profile** ([details](#)): **Recognised Researcher (R2)**

**Type of Contract:** Temporary for 12 months, with a possibility of extension.

**Status:** Full-time

**Salary:** 6000 PLN per month (before taxes).

### Contact

More information can be obtained from dr hab. Emilia Witkowska (e-mail: ewitk@ifpan.edu.pl).

### Application details

**Application deadline:** June 15, 2018. **Later applications may also be considered.**

**Required materials:**

- Curriculum Vitae
- List of publications, research statement, names and contact informations of two researches who agreed to write a recommendation letter

All materials should be submitted in electronic form to the address: [jobs@ifpan.edu.pl](mailto:jobs@ifpan.edu.pl) with Job ID in the subject.