



# Institute of Physics of the Polish Academy of Sciences

## Scholarship for a PhD Student



**Job ID:** #JOB14/2017

### Job Description

**Job Title:** PhD student in Polaritonics

**Job Summary:**

The PhD student will participate in the project “New quantum states in polaritonic fluids of light”, devoted to theoretical research on solid state physics and quantum optics, including condensation of Bose-Einstein of exciton-polaritons.

**Job Description:**

The project concerns the study of exciton polaritons, quantum particles that can be applied in various fields such as extremely accurate interferometric measurements, ultra-low power lasers or processing of information with very low energy losses. It involves proposing a method for obtaining the so-called topological quantum states, and study of polariton condensates in the unstable regime, that has been recently observed experimentally.

Profile of candidates for the PhD position:

- Full university degree in physics or related field,
- Experience in a related field, ideally proven by publications,
- Numerical modeling and programming skills,
- Ability to work in a team,
- Good spoken and written English.

**Main research field:** Physics      **Sub Research Field:** Solid state physics

**Career Stage:** Early stage researcher or 0-4 yrs (Post-graduate)

**Research Profile** ([details](#)): First Stage Researcher (R1)

**Type of Contract:** Temporary for three years

**Salary:** 3000 PLN per month (untaxed scholarship).

### Contact

More information can be found on <http://www.ifpan.edu.pl/polariton> and obtained from prof. Michał Matuszewski (e-mail: [mmatu@ifpan.edu.pl](mailto:mmatu@ifpan.edu.pl))

### Application details

**Application deadline:** September 1, 2017 Later applications may also be considered.

**Required materials:**

- Curriculum Vitae
- List of publications

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.