

FORM FOR EMPLOYERS

INSTITUTION Institute of Physics of the Polish Academy of Sciences

CITY Warsaw

POSITION Professor – theoretical physics, specializing in solid-state physics
#JOB24/2026

DISCIPLINE Condensed matter physics

POSTED 21/07/2026

EXPIRES 20/08/2026

WEBSITE

https://www.ifpan.edu.pl/images/instytut/Oferty_pracy_i_konkursy/2026/2026-07-20_Profesor_024-2026_EN.pdf

KEY WORDS professor, physics

DESCRIPTION (field, expectations, comments):

Job Summary:

The successful candidate will conduct theoretical research on the atomic and electronic structures

of periodic systems, including bulk crystals and low-dimensional nanostructures, with particular

emphasis on the topological properties of electronic bands. The research will also address defects

and their influence on the properties of nanostructures. The position involves collaboration with

experimental research groups at the Institute.

Job Description:

The position is open in the Crystal Structure Modelling Group ON5.2, headed by Professor

Magdalena Załuska-Kotur. The group has access to appropriate computational infrastructure and

high-performance computing centres.

The successful candidate will be expected to continue the group's research on the properties of

crystals and nanostructures, with particular emphasis on the role of non-trivial electronic band

topology in three-dimensional and low-dimensional systems. The position also involves

collaboration with other researchers, especially with experimental groups at the Institute.

The research will focus in particular on two-dimensional heterostructures and nanowires based on

IV–VI materials exhibiting topological crystalline insulator phases. IFPAN conducts extensive

research on this class of materials in collaboration with international research centres. This work

covers both fundamental aspects and the assessment of the potential applications of these materials

in spintronics and quantum technologies.

Requirements:

- Professor title;

- documented experience in the theoretical modelling of crystalline structures of different dimensionalities;
- proficiency in computational methods of solid-state physics, including first-principles calculations, tight-binding methods, and effective-mass methods;
- a significant and well-documented scientific record;
- experience in leading and participating in research projects;
- experience in supervising doctoral students.

Main research field: Physics

Sub Research Field: Condensed matter physics

Career Stage: More Experienced researcher or >10 yrs (Senior)

Research Profile (details): Leading Researcher (R4)

Type of Contract: Temporary, 33 months with possibility of extension

Status: half-time employment

Salary: 4872 PLN per month before taxes, at half-time employment, plus length of service bonus.

Institute of Physics of the Polish Academy of Sciences

OPEN POSITION

Application details

Application deadline: August 20, 2026. Later applications will not be considered.

Required materials:

- Motivation letter
- Curriculum Vitae

- List of publications
- Copy of the professor's diploma
- Research plan related to the employment in IP PAS
- Consent to process your personal data (expressed on the attached form)

All materials should be submitted in electronic form to the address:
rekrutacja@ifpan.edu.pl with Job

ID in the subject.

The Institute of Physics of the Polish Academy of Sciences has Rules for Internal Reports specifying the

procedure for reporting violations of law and taking follow-up actions, which can be found on the Institute's

website at the link: <https://www.ifpan.edu.pl/en/institute/internal-reports-concerning-violations-of-law.htm>