



Institute of Physics of the Polish Academy of Sciences

OPEN POSITION



Job ID: #JOB28/2018

Job Description

Job Title: Expert in fabrication of nanostructures, adjunct

Job Summary:

Conducting research and development of technologies in the context of nanofabrication, work will involve MBE growth, lithography etc. Collaboration with experimental groups is expected.

Job Description:

Key responsibilities include:

- Fabrication and characterization structures based on II-VI group of semiconductors (CdTe, ZnTe and their alloys).
- Work in a cleanroom environment.
- Perform other duties as assigned.

Qualifications:

- Ph.D degree in physics, engineering, or materials science with at least 6 years of experience with electron and ion beam lithography (EBL/FIB) equipment and processes.
- Minimum experience of 10 years in MBE growth of II-VI materials.
- Knowledge of semiconductor fabrication processes (such as sputtering, e-beam, thermal evaporation, polishing, wet etching techniques, wire bonding), and diagnostics (SEM, EDX, profiler).
- Preferred extensive hands-on experience with:
 - 30 kV EBL/FIB Auriga cross beam systems from Zeiss with ELPHY from Raith,
 - MBE systems from EPI, VEECO and PREVAC,
 - ICP-RIE, ICP-PECVD from Oxford.
- Broad nanofabrication experience in terms of both process development and equipment troubleshooting/maintenance/repair.
- Strong attention to detail, persistence, follow through, and the ability to work with minimal supervision.
- Ability to work collaboratively with a wide variety of personnel at multiple levels of expertise.

Main research field: Physics

Sub Research Field: Condensed matter physics

Career Stage: Experienced researcher or 6-10 yrs

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

Type of Contract: permanent contract

Status: ¼ time

Salary: depending on qualifications and accomplishments, to 775 PLN Gross

Contact

More information can be obtained from prof. dr hab. Jacek Kossut (e-mail: kossut@ifpan.edu.pl).

Application details

Application deadline: June 27, 2018.

Required materials:

- Curriculum Vitae
- List of publications
- e-mail addresses of two researches who agreed to write a recommendation letter
- Copy of PhD diploma

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