



Job ID: #JOB 13/2021

Job Description

Job Title: Scholar – 2 positions

Job Summary:

Growth and characterization of nitride semiconductor nanostructures

Job Description:

The M.Sc. student will participate in the NCN OPUS project "Mechanism of growth and application of GaN nanowires in new designs of optoelectronic devices and sensors". The project is focused on deepening our understanding of mechanisms of catalyst-free nucleation and plasma-assisted MBE (PAMBE) growth of nanowires (NWs) made of nitride semiconductors. The main goal is to use the knowledge and experience gained for preparation of specific nitride NW structures for new designs of optoelectronic devices and correlation of their characteristics with the fabrication steps. Understanding of growth mechanisms as well as elaborated ways of their control will be used for studies of growth of spatially organized NW structures by selective area epitaxy, core-shell structures and for developing of novel nanowire-based light emitting diodes (nanoLEDs).

Profile of a candidate for the scholarship:

1. Bachelor or engineer degree in one of the following disciplines: physics, chemistry, electron technology or related
2. Student of M.Sc. studies in the disciplines as above.
3. High motivation for scientific work.
4. Analytical thinking, diligence in work
5. Good spoken and written English skills

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: for 14 months

Scholarship: 2500 PLN per month

Contact

More information can be obtained from prof. dr hab. Zbigniew R. Żytkiewicz (e-mail: zytkie@ifpan.edu.pl); <http://info.ifpan.edu.pl/Dodatki/WordPress/mbe2en/>

Application details

Application deadline: March 11, 2021

Later applications may also be considered.

Required materials:

- Curriculum Vitae
- List of publications, conference presentations and other achievements (if any)
- Letter of motivation
- Transcript of record from undergraduate studies
- Certificate of enrollment MA

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

Information clause – scholarship competition

Pursuant to Article 13 paragraphs 1 and 2 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation) Official Journal of the European Union, L 119, 4 May 2016, page 1, as amended, hereinafter referred to as “GDPR”, we hereby inform as follows:

1. The Institute of Physics of the Polish Academy of Sciences with its registered office in Warsaw, Al. Lotników 32/46, represented by its Director, is the Controller, i.e. an entity deciding about how your personal data will be used. You may contact the Controller using one of the contact forms available on the website: tel. (22) 116-2111, e-mail: director@ifpan.edu.pl
2. The Director of the Institute of Physics of the Polish Academy of Sciences has appointed the Data Protection Officer (DPO), whom you may contact in matters relating to your personal data, by sending an email to the following address: iodo@ifpan.edu.pl
3. Your personal data will be processed in connection with your participation in the scholarship competition and if you win the competition, in connection with receiving the scholarship – on the basis of your consent – Article 6 paragraph 1 item a GDPR.
4. Your personal data will be processed for a period of 6 months after the end of the scholarship competition and in the case of receiving the scholarship – for a period resulting from legal and tax regulations;
5. Your personal data will be made available to other entities that can finance and settle the scholarship granted and entities authorized under provisions of law. Your data will only be accessed by people authorized by the Controller;
6. Provision of your personal data is mandatory; in the event of failure to do so, you will not be able to participate in the scholarship competition;
7. You have the right to access your data, the right to rectify it and limit processing thereof;
8. You have the right to lodge a complaint to the President of the Office for Personal Data Protection, if you consider that the processing of your personal data violates provisions of the General Data Protection Regulation.

Consent to processing:

I hereby consent to the processing of my personal data contained in the application/request form by the Institute of Physics of the Polish Academy of Sciences to conduct the scholarship competition and in the case of being granted the scholarship, to pay and settle it. I provide my personal data voluntarily and I declare that it is accurate. I have read the content of the information clause.

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Date and signature