



Institute of Physics of the Polish Academy of Sciences Scholarship for a PhD Student



Job ID: #JOB 100/2023

Job Description

Job Title: PhD student

Job Summary:

Ternary CdMgO layers doped with Eu

Job Description:

The doctoral student's responsibilities will include:

- Growth of oxide semiconductor crystals using the MBE method and development of the Eu doping technique for these crystals.
- Characterization of the obtained materials in terms of structural, optical and electrical properties.
- Study of energy transfer between Eu ions and the matrix.
- Analysis of the obtained results and active participation in preparation of publications

Requirements:

- The candidate should have a strong interest in experimental sciences, but also some theoretical work and have some experience in optical measurement techniques.
- Good knowledge of Origin will be an advantage.
- Good knowledge of spoken and written English is necessary to write a doctoral thesis efficiently.
- Master's degree in physics (or an equivalent that qualifies one for PhD studies in physics in the country of issue).
- To be employed, the candidate must be accepted into the PhD school in which the Institute of Physics participates. Applications for the position are through recruitment to the School, online at warsaw4phd.eu.

Main research field: Physics

Sub Research Field: solid state physics, crystal growth.

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

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

Type of Contract: Fixed term (33 months)

Status: Full-time

Salary: grant funding of **5000** PLN per month, before subtracting obligatory employer and employee social security contributions (~15%).

Contact

More information can be obtained from

Ewa Przeździecka (e-mail: eilczuk@ifpan.edu.pl)

<https://www.ifpan.edu.pl/instytut-fizyki-pan/oddzialy-naukowe/oddzial-fizyki-i-technologie-nanostruktur-polprzewodnikow-szerokoprzerwowych/on4-4-zespol-mikroskopii-i-spektroskopii-elektronowej.html>

Application details

Application deadline: 04.01.2024. Later applications will not be considered.

Required materials:

- Scientific CV
- Cover letter
- Scan of MsC diploma or equivalent (or an explanation of when one is expected)
- Academic record (for finalized semesters)
- Recommended: A recommendation letter by an academic, or their contact email.

All materials should be submitted in electronic form by application to the PhD school warsaw4phd.eu, choosing the project: " Ternary CdMgO layers doped with Eu". The application system will be active from 21.12.2023.

Results regarding the position will be made available by 02.02.2024.