

Project: *Aspekty toksykologiczne nowych nanomateriałów dwuwymiarowych z rodziny MBenes*

Principal Investigator: prof. Agnieszka Jastrzębska

Position in the Project: Student

Institution: Institute of Metrology and Biomedical Engineering, Faculty of Mechatronics, Warsaw University of Technology

Requirements:

1. Bachelor's degree in Engineering, Materials Science or Biomedical Engineering.
2. Knowledge in the field of materials engineering, in particular two-dimensional (2D) materials.
3. Experience in conducting research in the field of manufacturing and characterization of 2D materials.
4. Experience in working with 2D materials from the MXenes family will be an additional advantage.
5. Fluent spoken and written English.
6. Strong motivation and passion for scientific work both independently and as part of a team in an interdisciplinary environment, with the ability to creatively propose solutions to problems at hand, pay close attention to detail and to meet deadlines.
7. Very good social skills.

General description of the project:

Warsaw University of Technology, Faculty of Mechatronics is conducting research under the Opus 18 grant entitled "Toxicological aspects of new two-dimensional nanomaterials from the MBenes family", financed by the National Science Centre. The scientific objective of the project is to define, recognize, and ultimately enable the control of toxicological properties of an innovative group of nano-flake (layered) two-dimensional (2D) structures of early transition metal borides (2D MBene phases), prepared from their corresponding MAB phases. As part of the implementation of research tasks in the NCN project, the scholarship holder will be required to conduct scientific research, in particular to prepare reference samples of MXene phases. The scholarship holder will also participate in the preparation of scientific papers and dissemination of project results at scientific conferences. A successful dissemination of results to the scientific community is expected.

What we offer:

1. Scholarship contract and competitive remuneration package.
2. Work in dynamic and competent scientific group with excellent research environment and international cooperation promoting publications in high impact journals.
3. Financial support for abroad scientific visits and attending conferences.
4. Encouragement and support in preparing grant applications and general career development.

Type of NCN Project: Opus 18 – ST.

Application deadline: 14.02.2025, 23:59.

Results available on: 21.02.2025.

Submit documents to: agnieszka.jastrzebska@pw.edu.pl

Conditions of employment:

PhD scholarship total: 12000 PLN.

Preferred time of starting position: 1st March 2025.

Additional information:

To apply, please send your application, including motivation letter, CV with the list of your publications and achievements, Bachelor degree thesis alongside with contact information to the scientific supervisor and other referees (if available) to the following e-mail address: agnieszka.jastrzebska@pw.edu.pl (deadline 14.02.2025). Incomplete applications will not be considered. We thank all applicants for their interest; however, only selected candidates may be invited for an interview. Applications will be accepted until the position is filled. If the winner of the competition resigns from signing the contract, we reserve the right to choose the next best person from the ranking list.

RODO statement:

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, all candidates are requested to provide consent to the processing of his or her personal data by the institution which carries out the recruitment process. **Thus, please include in your application the following statement: "I hereby agree to the processing of my data included in the application documents by Warsaw University of Technology, Warsaw, Poland, to carry out the recruitment process."** Your personal data is processed on the basis of the Article 6 Part 1 Points (c) and (f) of the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (GDPR; Official Journal of the European Union L 119/1).