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## Scholarship Offer in the frame of OPUS 20 project

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**Organisation:** West Pomeranian University of Technology in Szczecin, Faculty of Chemical Technology and Engineering, Department of Nanomaterials Physicochemistry

**Position:** Scholarship holder/student/PhD student

We are looking for a highly motivated candidate who would like to work in the frame of OPUS 20 project “Recycling of Plastic Waste into Highly Porous Carbon Nanomaterials for Electrochemical Energy Storage”, under supervision of dr hab. Xuecheng Chen, prof. ZUT.

**Conditions of employment:** Successful candidate will be granted scholarship of 5000 PLN/month for 12 months (with possibility of extension) under the conditions written in the NCN regulations for OPUS 20.

**Research tasks:**

- Investigation of parameters for carbonization of MOF crystals from waste PET
- Studies on the microstructure and porosity properties of carbon product from PET derived MOF crystals
- Studies on the electrochemical performance of PET derived carbon materials in lithium ion battery, such as CV, GCD, EIS, long cycle performance
- Studies on the electrochemical performance of PET derived carbon materials in lithium sulfur batteries, such as CV, GCD, EIS, long cycle performance.
- Analysis of the experimental data
- Contribution to writing scientific papers

**Requirements:**

- Master student graduate in Chemistry or related fields (with PhD student status at Doctoral School or doctoral studies participant at the start date of the engagement) or status of the student of the final semester of Chemical Technology, Chemical and Process Engineering, or related fields
- Experience in performance of basic electrochemical analysis e.g. cycling voltammetry, galvanostatic charge/discharge, etc.
- Experience in the lab work
- Co-authorship of scientific publications will be a strong asset
- Grade point average from recently completed semester will be scored
- Good written and spoken English skills
- Ability to work in a team

**Application Deadline:** 07.05.2025, 12:00

**Application procedure and contact:**

Candidates should send their CV and letter of motivation to: [nanotech@zut.edu.pl](mailto:nanotech@zut.edu.pl) or deliver them personally to the Department of Nanomaterials Physicochemistry, Piastow Ave. 45, room no. 1/32 till May 7<sup>th</sup>, 2025. The CV should contain information about prior scientific achievements (grade point average from recently completed semester, the list of publications, participation in internships and participation in other research projects). Please include in your application the personal data processing agreement.

Thanking all applicants for their interest, we will contact only selected candidates before May 8<sup>th</sup>, 2025.