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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/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 from 10.2023 of 4000 PLN/month for 22 months (with the possibility of extension) and under the conditions written in the NCN regulations for OPUS 20.

**Research tasks:**

- Investigation of parameters for carbonization of MOF crystals from waste PET, such as carbonization temperature and heating speed. The microstructure and porosity properties of carbon product from PET derived MOF crystals.
- Study of the electrochemical performance of PET derived carbon materials in lithium ion battery, such as CV, GCD, EIS, long cycle performance.
- Study of 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:**

- Experience in Chemistry, chemical engineering, material sciences, familiar with materials synthesis and characterization
- PhD student or student of second stage (master) at Polish university at the start date of the engagement
- Experience in the lab work
- Excellent written and spoken English skills
- Ability to work in a team

**Application Deadline:** 26.09.2023, 12:00

**Application procedure and contact:**

Candidates should send their CV and a motivation letter 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 September 26<sup>th</sup>, 2023. The CV should contain information about prior scientific achievements (the list of publications, participation in conferences, 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 on September 27<sup>th</sup>, 2023.

The results of the competition will be announced on September 28<sup>th</sup>, 2023 at the latest.