

PhD students are sought for two PhD scholarships financed by the Polish National Science Center (NCN) under a grant „Mechanistic investigations for local thermal oxidation of thin MoS₂” conducted by prof. R. Szoszkiewicz in the Biological and Chemical Research Centre (CNBCh) of the University of Warsaw (UW) in Ochota, Warsaw (<https://robertszosz.wixsite.com/szoszlab>). Successful candidates will be offered **a scholarship of 3600 PLN per month for a period of first 29 months**. After that the Scholars will be financed at least at the same amount by the Doctoral School of Exact and Natural Sciences (DSENS) at UW towards completion of their PhD program at UW.

Project description: interdisciplinary scientific works in the field of basic research for flexible nanoelectronics with 2D materials. Research will be conducted in collaboration with leading scientific institutions in the USA and Switzerland. **Scientific disciplines:** chemistry or physics or material science.

Tasks of the PhD scholar: will be responsible for conducting thermally induced oxidation of MoS₂ crystals in the macro-, micro-, and nanoscales. Will use commercial and custom prepared samples. Oxidation will be conducted using macro/micro heaters as well as local methods involving thermochemical nanolithography in gas and liquid phases. In collaboration with other project employees will be responsible for physicochemical characterization of the pristine and modified MoS₂ crystals using a variety of methods such as AFM, SEM, Raman, Auger, XPS, EDS and other surface science methods. Depending on his/her preferences may be involved and become responsible for modeling experimental data using Ab initio and other methods such as FEM. Will be responsible for preparation and presentation of the research reports in the form of short essays, drafts of scientific papers, conference posters and talks. Will be responsible for procurement of goods necessary for the realization of the project and lab maintenance. Those involve reagents, materials and other general purpose laboratory/research goods. Will be responsible for maintaining laboratory notebook as well as keeping his/her lab desk and lab research space in proper order and cleanness.

We seek motivated applicants able to analyze and present scientific data using computers and in fluent English. Must be ready to perform daily work duties at CNBCh and travel for a few short research stays abroad during the time of the project. Evidence of earlier scientific works such as publications and/or conference posters/talks will be appreciated, same as prior experience in the simulations and/or experimental measurements of physicochemistry of 2D materials using AFM and/or other methods.

How to apply. Please **email all the following documents** to rszoszkiewicz@chem.uw.edu.pl **by February 16, 2020:** 1) CV with a cover letter; 2) MSc thesis (in a pdf format); 3) Names, emails and telephone numbers of two references; 4) List of all the grades from the MSc and BSc studies.

To allow us to process your data, please include the following statement in your application: „I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.”

.....
(place and date)

.....
(signature of the person applying for employment)

Selection criteria: Selected candidates will be asked for a phone or in person interview and advised on more details, when the time comes. Selected candidates will be guided to upload all the necessary documents to a selection system for DSENS UW and pay the application fee of 150 PLN. Employment will begin around mid-March 2020.

INFORMATION ON THE PROCESSING OF PERSONAL DATA

INFORMATION CLAUSE

Pursuant to Article 13 of 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 (General Data Protection Regulation), University of Warsaw hereby informs:

1. The Controller of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa;
2. The Controller has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: iod@adm.uw.edu.pl;
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 22¹ § 1 of the Act of 26 June 1974 Labor Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
5. Provision of data in the scope stipulated in the Labor Code is mandatory, and the remaining data are processed according to your consent for processing of personal data;
6. The data will not be shared with any external entities;
7. The data will be stored until you withdraw your consent for processing of personal data;
8. You have the right to access your personal data, to rectify, erase them, restrict their processing, object to processing, and to withdraw the consent at any time;
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data.