

JOB OFFER

Position in the project:	student
Scientific discipline:	Physics
Job type:	Scholarship
Number of job offers:	2
Remuneration:	2 000 PLN of full scholarship cost
Position starts on:	01.10.2021
Maximum period of stipend agreement:	5 months
Institution:	Solid State Division/ Institute of Experimental Physics / Faculty of Physics/ University of Warsaw
Project leader:	Marek Potemski / co-leader: Piotr Kossacki
Project title:	Atomically thin semiconductors for future optoelectronics (ATOMOPTO) <i>Project is carried out within the TEAM programme of the Foundation for Polish Science</i>
Project description:	The project targets the research and development of new two dimensional systems, the atomically thin layers of semiconducting transition metal dichalcogenides (S-TMDs: MoS ₂ , MoSe ₂ , MoTe ₂ , WSe ₂ , WS ₂). Their electronic properties will be studied and new structures will be fabricated. We aim also in development of new hybrid devices combining layered materials with standard semiconductors.
Key responsibilities include:	The prospective candidate will participate in fabrication and characterization of the advanced structures (van der Waals heterostructures) of atomically thin S-TMDs. The work will include methods of mechanical exfoliation and deterministic transfer, operation under inert atmosphere, characterization methods such as optical and atomic force microscopy, micro Raman scattering and electrical measurements, and design, fabrication and test of devices.
Profile of candidates/requirements:	The candidate should (i) during academic year 2021/22 pursue second-cycle studies at Faculty of Physics, University of Warsaw (ii) demonstrate background in physics of semiconductors (iii) have relevant expertise in experimental physics (iv) vivid interest, possibly confirmed by previous experience and publication records, in the investigations of atomically thin semiconductor systems.
Required documents:	1. Motivation letter, 2. CV, 3. Bachelor thesis or manuscript which will be presented

	<p>as bachelor thesis (in the case of expected bachelor exam after application deadline),</p> <p>4. Recommendation letter from the supervisor of the bachelor thesis,</p> <p>5. Information on the processing of personal data - information clause and consent clause (available on the website https://bsp.adm.uw.edu.pl/bsp-druki-do-pobrania/). In case of submitting the application by e-mail, please use the pdf-format and the file should contain a scanned signature.</p>
We offer:	Scholarship, interesting experimental work
Please submit the following documents to:	Secretary Office of Solid State Division, Faculty of Physics, University of Warsaw, room 3.78, ul. Pasteura 5, Warsaw, Poland or send PDF files by e-mail to Piotr.Kossacki@fuw.edu.pl
Application deadline:	August 31, 2021
For more details about the position please visit (website/webpage address):	http://lums.fuw.edu.pl/
Euraxess stipend offer (in case of PhD and postdoc positions):	

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."