

## FORM FOR EMPLOYERS

INSTITUTION **UNIVERSITY OF WARSAW, FACULTY OF PHYSICS**

CITY **WARSAW, POLAND**

POSITION post-doc (*adiunkt naukowy*)

DISCIPLINE physics

NUMBER OF POSITIONS **1**

POSTED **3.11.2017**

EXPIRES **5.12.2017**

WEBSITE **WWW.FUW.EDU.PL**

KEY WORDS atomically thin semiconductors, optical properties, excitons, time-resolved spectroscopy, optical orientation

### DESCRIPTION (field, expectations, comments):

The aim of the procedure is to hire a post-doc (*adiunkt*) for a reaserch project funded by Polish National Science Centre within OPUS programme. The employment is full-time for period till 31.07.2018 in Solid State Division at the Faculty of Physics, University of Warsaw. The conditions of the employment follow guidelines of the Polish National Science Centre (NCN).

The project is focused on exciton dynamics with emphasis on valley effects in monolayers of transition metal dichalcogenides, in particular identification of the exciton relaxation in mechanisms tungsten diselenide and molibdenium ditelluride. Among other, the project includes determination of the exciton lifetime in the latter system in order to verify if the infrared-emitting MoTe<sub>2</sub> exhibits longer exciton lifetime. The second objective of the project is explanation of the previously observed variation of the optical polarization in WSe<sub>2</sub> about B=0T.

The new post-doc will work towards the realization of the project objectives, in particular (i) by necessary technological and characterization of the samples, and (ii) by advanced time-resolved (magneto-)spectroscopy experiments. The candidate will co-operate with the rest of the research group, including students and PhD students.

The candidates have to conform to the conditions stated in art. 109 of Higher Education Law dated 27.07.2005. (uniform text: Journal of Laws of the Republic of Poland 2016, item 1842 with further amendments).

The requirements:

The candidate is required to have a PhD degree in physics (preferentially in solid state physics or optics), according to NCN requirements. Candidates with following profile will be preferred: (i) with expertise in optical and electronic properties of semiconductors, nanostructures and 2D systems, (ii) with experience in magnetospectroscopy and time-resolved spectroscopy, (iii) with experience in programming (e.g., C/C++, Python, LabView).

The candidate should provide the following documents:

1. Application for the position required together with the acceptance for the treatment of personal data: "I hereby give consent for my personal data to be processed for the purposes of recruitment, in accordance with the Personal Data Protection Act dated 29.08.1997 (uniform text: Journal of Laws of the Republic of Poland 2016, item 922)";
2. Motivational letter
3. Copy of a PhD diploma
4. CV including publication list
5. Referral letter from the PhD supervisor

The candidate should provide all documents to Secretarys Office of Solid State Division room 3.78 ulPasteura 5, Warsaw Poland or send PDF files by E-mail to [Tomasz.Kazimierczuk@fuw.edu.pl](mailto:Tomasz.Kazimierczuk@fuw.edu.pl)...

The entire procedure will be concluded before ...05.01.2018. The candidate might be asked for an interview with the commission appointed by the Dean of the Faculty.

This announcement is the first step in the procedure of employing an academic teacher and its positive result will be a base for consecutive steps.