HR EXCELLENCE IN RESEARCH

FORM FOR EMPLOYERS

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| INSTITUTION | **UNIVERSITY OF WARSAW, FACULTY OF PHYSICS** |
| CITY | **WARSAW, POLAND** |
| POSITION | **Post-doc (*adiunkt naukowy)*** |
| DISCIPLINE | **Physics** |
| NUMBER OF POSITIONS | **1** |
| POSTED | 13.02.2018 |
| EXPIRES | 13.03.2018 |
| WEBSITE | **www.fuw.edu.pl** |
| KEY WORDS | atomically thin semiconductors, optical properties, excitons, time-resolved spectroscopy, optical orientation |

DESCRIPTION (field, expectations, comments):

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 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 $MoTe_2$ exhibits longer exciton lifetime. The second objective of the project is explanation of the previously observed variation of the optical polarization in $WSe_2$ about B=0T.

The new post-doc will work towards the realization of the project objectives by performing analysis of the acquired experimental data as well as constructing theoretical models to interpret the results.

The requirements:

The candidate is required to have a PhD degree in solid state physics and meet all relevant NCN requirements. Due to the short span of the employment the candidates are required to have hands-on experience in streak camera measurements on transition metal dichalcogenides. The candidates are also required to be proficient in computer programming in C/C++ or Python to the level allowing for efficient handling rate-equation models and high-volume data sets.

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 or certificate of awarding the PhD degree
4. CV including publication list
5. Referral letter from the PhD supervisor

The candidate should provide all documents to address: Tomasz.Kazimierczuk@fuw.edu.pl

The entire procedure will be concluded before 30.03.2018 The candidate might be asked for an interview with the commission appointed by the Dean of the Faculty. The results of the procedure will be announced by e-mail.

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.