



HR EXCELLENCE IN RESEARCH

FORM FOR EMPLOYERS

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

CITY **WARSAW, POLAND**

POSITION **ASSISTANT PROFESSOR (ADJUNCT)**

GROUP *research*

DISCIPLINE *PHYSICAL SCIENCES*

NUMBER OF POSITIONS **1**

POSTED **July 11th, 2024**

EXPIRES **August 18th, 2024**

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

KEY WORDS **layered van der Waals materials, electroluminescence,
photoluminescence, photodiodes, transition metal
dichalcogenides, chromium trihalides**

DESCRIPTION (field, expectations, comments):

The position of an Assistant Professor will be associated with research within the SONATA BIS project "Hybrid structures of layered materials for modern optoelectronics" founded by the National Science Center (NCN) (<http://lasso.fuw.edu.pl/projekty.html>). It is planned to investigate the optical and electronic properties of light-emitting diodes (LEDs) composed of stacks of ultrathin layered materials, which combine multiple functions in a single device, e.g., by combining (semi)metallic electrodes, insulating tunneling barriers, and luminescent semiconductor materials. The research will include studying the electroluminescence spectra of specific materials, such as MoSe₂, and artificially fabricated vdW heterostructures, such as WSe₂/CrBr₃. The person employed in the position of Assistant Professor will conduct research on high-quality LED structures, which will be produced at the National University of Singapore in the group of Dr. Maciej Koperski. The optical and electronic properties of these structures will be investigated by the employed person using a wide range of spectroscopic techniques, such as electroluminescence, photoluminescence, and reflection contrast under various conditions, e.g., as a function of temperature and in an external magnetic field. The person in this position will also plan and conduct experimental measurements, collaborate with and supervise the work of PhD and Master students involved in the project, and participate in the analysis of the obtained results and their dissemination, including co-authoring publications.

The candidates have to conform to the conditions stated in art. 113 of Higher Education Law dated 20.07.2018 (Journal of Laws of the Republic of Poland 2023, item 742 with subsequent amendments).

The requirements:

The employment will take place in accordance with the regulations of the National Science Center (NCN). In particular the employed person must meet the following conditions jointly:

- a) will be selected in an open competition, by a recruitment committee appointed by the head of the entity implementing the research project, with the participation of the Principal Investigator as well as persons with scientific or professional activities covering two research areas. Participants' evaluation is based on the applications presented in the competition announcement, and the competition results are made public via the entity's website, where the research project will be presented;
- b) the Principal Investigator was not the supervisor or auxiliary supervisor of her doctoral dissertation;
- c) covered by a doctoral degree in an entity other than the entity that is a member is an employee on this letter, or a limited 10-month, continuous and honorary postdoctoral internship in an entity other than the entity implementing the project and in a country other than the founding country of the scientific degree;
- d) will be employed for a period not longer than 6 months;
- e) during the period of receiving these benefits, no other benefits will be received from funds allocated as part of direct financial activities under NCN calls;
- f) during the period of receiving this remuneration, he will not receive benefits from another employer under an employment contract, including from an employer based outside Poland;
- g) during the period of receiving this type of benefits, no retirement benefits will be collected from the social security system

- the candidate is required to hold a PhD degree in physics, in chemical physics, or in related field,
- the candidate must have experience (confirmed by scientific articles) in the optical characterization of semiconductor materials, e.g., in photoluminescence or Raman scattering measurements conducted over a wide temperature range from liquid helium to room temperature.
- experience in optical measurements as a function of magnetic field, as well as in the mechanical exfoliation of layered materials, will be an additional advantage.
- experience in electrical measurements of semiconductor structures will be an additional advantage.
- the candidate has to be able to communicate in English.

The candidate must have obtained a PhD degree not earlier than 7 years before the year of employment in the project. This period does not include breaks related to maternity leave, holiday on the conditions of maternity leave, paternity leave, parental leave or educational leave, granted on the terms set out in the provisions of the Labor Code or collection sickness benefit or rehabilitation benefit in connection with inability to work, including caused a disease requiring medical rehabilitation. For female researchers, the indicated 7-year period can be extended by 18 months for each born or adopted child. A female researcher can choose a more favorable way indication of breaks in a scientific career.

Key responsibilities:

- planning and conducting experimental measurements using a wide range of spectroscopic techniques.
- collaborating with and supervising the work of PhD and Master students involved in the project.
- Analyzing the obtained results.
- Participating in the preparation of publications.

Employment details:

Full-time work, duration of employment: 24 months, workplace: Division of Solid State Physics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw.

The candidate should provide the following documents:

1. Application for the position - *the pdf-format with a scanned signature.*
2. Information on the processing of personal data - information clause and consent clause - attachment to the announcement (available on the website https://bsp.adm.uw.edu.pl/wp-content/uploads/sites/18/2021/01/Klauzula-informacyjna-przy-rekrutacji-do-pracy_11_2019_EN.docx) - *the pdf-format with a scanned signature.*
3. Statement on reading and accepting the rules for job applications for a position of an academic teacher at the University of Warsaw (available on the website <https://www.fuw.edu.pl/dokumenty-i-formularze.html>) - *the pdf-format with a scanned signature.*
4. The motivation letter.
5. The copy of a PhD diploma or certificate of awarding the PhD degree.
6. CV including information on the scientific activities so far, scientific achievements and interests.
7. List of publications.
8. Two recommendation letters sent directly by researchers familiar with the candidate's scientific activities to maciej.molas@fuw.edu.pl, clearly indicating the candidate's name as the subject of the email (Format: Reco SONATA BIS_ candidate's name and surname).

The candidate should provide all required documents in a single PDF file to maciej.molas@fuw.edu.pl before the application deadline, in an email titled "App SONATA BIS_ Candidate's name and surname".

The entire procedure will be concluded before 10th September 2024. The candidate might be asked for an interview with the commission appointed by the Dean of the Faculty.

Every applicant will individually be informed on the results of the procedure by e-mail.

The successful candidate is required to submit the original documents before the employment starts.

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.

Name and Surname

Information on personal data processing

Controller

Controller of your personal data processed in connection with the recruitment process is the University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa, as the Employer.

Contact with the controller:

- by traditional mail at: University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa (name the organizational unit to which your letter is addressed);
- by phone: 22 55 20 355.

Data Protection Officer (DPO)

Controller has designated Data Protection Officer whom you may contact via email at iod@adm.uw.edu.pl. You may contact the DPO in all matters relating to your personal data processing by the University of Warsaw and the exercise of rights in relation to the processing of personal data.

The DPO, however, does not proceed other matters, like handling recruitment procedures, collecting recruitment documents, providing information on current recruitment process.

Purpose and legal grounds of data processing

Personal data of candidates for employment shall be processed for recruitment purposes only.

Your personal data shall be processed in the scope as indicated by employment law¹ (*given name (names) and family name, date of birth, contact information as provided, education, professional qualifications, previous employment*) for the purposes of this recruitment process², whereas other data³ shall be processed based on your consent which may take the following wording:

I agree to the processing of personal data provided in (e.g. CV, cover letter, and other submitted documents) by the University of Warsaw for realising my recruitment process.

If your documents include data as mentioned in Art. 9 section 1 of the GDPR (special categories of personal data), processing shall be possible upon your consent to processing such data⁴ which may take the following wording:

I agree to the processing of special categories of personal data, as mentioned in Art. 9 section 1 of the GDPR, provided in (e.g. CV, cover letter, and other submitted documents) by the University of Warsaw for realising my recruitment process.

The University of Warsaw shall be also processing your personal data in future recruitment processes upon your consent⁵ which may take the following wording:

¹ Art. 22¹ of the law of June 26, 1974 Labour Code (i.e. Journal of Laws 2019 item 1040 with subsequent changes);

² Art. 6 section 1 letter b of the Regulation of the European Parliament and the Council (EU) 2016/679 of April 27, 2016 on protection of individual persons with regard to the personal data processing and on the free flow of such data, and also repealing Directive 95/46/EC (general regulation on data protection) (Official Journal EU L 119 of 04.05.2016, page 1, with subsequent changes) (hereinafter as the GDPR);

³ Art. 6 section 1 letter a of the GDPR;

⁴ Art. 9 section 2 letter a GDPR;

⁵ Art. 6 section 1 letter a GDPR;

I consent to processing of my personal data for the purposes of any future recruitment processes at the University of Warsaw for the period of the next nine months.

You may revoke all such consents at any time by, for example, sending an email at maciej.molas@fuw.edu.pl.

Be advised that the revocation of your consent does not affect legal compliance of processing which had been completed upon consent before its revocation.⁶

Data retention period

Your personal data collected in this recruitment process shall be stored over the period of three months from the date the recruitment process is completed.

In case you agree to process your data in future recruitments, your data shall be used over the period of nine months.

Data recipients

Officers authorized by the Controller shall have access to your personal data, the processing of which is in the scope of their duties.

Recipients of personal data may be other subjects obligated by the Controller to provide specific services involving data processing, like members of the competition committee.

(name all recipients of data)

Data transfer outside the European Economic Area (EEA)

Your personal data shall be disclosed to subjects authorized by law. Signing-in is through Google Forms. Your personal data may be also processed by our provider of G-Suit for education by Google Company in their data processing centres.⁷ Your data shall be protected under the standards of the Privacy Shield, accepted by the European Commission.⁸ This shall guarantee an adequate level of data security.

Rights of the data subject

Under the GDPR data subjects have the following rights:

- *to access data and to receive copies of the actual data;*
- *to correct (rectify) your personal data;*
- *to restrict processing of personal data;*
- *to erase personal data, subject to provisions of Art. 17 section 3 of the GDPR;*
- *to file a claim with the [President of the Personal Data Protection Office, if you](#) believe data processing violates law.*

Information on the requirement to provide data

Providing your personal data in the scope resulting from law is necessary to participate in the recruitment process. Providing other personal data is voluntary.

.....
place and date

.....
applicant's signature

⁶ Art. 7 section 3 GDPR;

⁷ <https://www.google.com/about/datacenters/inside/locations/index.html>

⁸ <https://www.privacyshield.gov>