



Faculty of Physics University of Warsaw in the framework of OPUS 30 project “*Optical-electrical hybrid memristor synapses with short- and long-term plasticity for next-generation neuromorphic information processing*”, carried out at the Faculty of Physics, University of Warsaw

offers

a NCN research scholarship for first-cycle, second-cycle or long-cycle studies

Project details:

As part of the project, a new generation of opto-electrical memristor synapses will be developed, capable of mimicking the short- and long-term memory of biological synapses. The research will combine nanotechnology, photonics, electronics and aspects of artificial intelligence. The aim will be to create a single component capable of simultaneously processing and storing information, paving the way for faster and more energy-efficient computing systems.

<https://ncn.gov.pl/sites/default/files/listy-rankingowe/2026-06-11-kioT82zx/streszczenia/662451-pl.pdf>

Requirements

- Basic knowledge and experience in optics, photonics and solid-state physics are required, as well as familiarity with experimental techniques related to the fabrication and characterisation of photonic nanostructures.
- Knowledge of the fabrication and characterisation of memristor structures would be an advantage.
- The candidate should be a student on a first-cycle, second-cycle or integrated master’s degree programme in physics, nanostructure engineering or a related field, enrolled at a university in Poland.
- Recruitment follows the rules for awarding scholarships set out in the Regulations for the awarding of scholarships in research projects financed from the resources of the National Science Center (Annex to NCN Council Resolution No. 25/2024 of 4 March 2024).

https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2024/uchwala25_2024-zal1.pdf

Job description

- Participation in the preparation of basic memristive structures, preliminary material processing, and their basic characterization, with particular emphasis on activities related to nanostructuring, electrode patterning, and dielectric-channel engineering.

Information on scholarships:

- full-time scholarship
- number of scholarships: **1**,
- scholarship amount: **2,000 PLN gross per month (may be subject to statutory deductions in accordance with Polish law)**.
- Duration: up to **24 months**, planned to start on 1 August 2026, subject to a possible postponement to 1 September 2026.
- Application deadline: **19 July 2026**,
- The scholarship does not cover tuition fees or relocation costs.
- Those interested in the scholarship should submit the following documents electronically to **tomasz.stefaniuk@fuw.edu.pl**:

1. Application for the position required together with the acceptance for the treatment of personal data - the information clause and the consent clause attached to the announcement. In case of submitting the application by e-mail, please use the pdf-format and the file should contain a scanned signature.

2. The acquired diploma and information about students career.
3. Current CV and the list of publications
4. Contact details of two persons who can provide information about the candidate.
5. In case of foreigners outside of EU, EFTA and the countries that are signatories to the Convention on the Recognition of Qualifications concerning Higher Education in the European Region - a document certifying a diploma in the territory of the Republic of Poland (<https://nawa.gov.pl/en/recognition/recognition-for-academic-purposes/applying-for-admission-to-doctoral-studies>).

The candidate, in case of being accepted, will be required to present the originals of all the documents.

The entire procedure will be concluded before **21st of July, 2026**. The candidate might be asked for an interview with the recruitment commission. The candidate will be notified of the result of his/her application by e-mail.

Further information on the project: dr Tomasz Stefaniuk, tomasz.stefaniuk@fuw.edu.pl, tel. 225532022;

Information regarding the processing of personal data

Data Controller

The data controller for your data processed as part of the recruitment process is the University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warsaw, in its capacity as employer.

You can contact the data controller:

- by post: University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warsaw (please specify the organisational unit to which the correspondence is addressed);
- by telephone: **22 55 20 355**.

Data Protection Officer (DPO)

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

However, the DPO's responsibilities do not include handling other matters, such as conducting recruitment processes, accepting recruitment documents, or providing information regarding ongoing recruitment processes.

Purpose and legal basis for processing

The personal data of job applicants will be processed solely for recruitment purposes.

Your personal data, to the extent specified in labour law¹ (*first name(s) and surname, date of birth, contact details provided by you, education, professional qualifications, employment history*), will be processed for the purpose of conducting the current recruitment process², whilst other data³ will be processed on the basis of your consent, which may be worded as follows:

I consent to the processing of my personal data contained in (e.g. my CV, cover letter and other attached documents) by the University of Warsaw for the purpose of my participation in the recruitment process.

If the documents contain data referred to in Article 9(1) of the GDPR (special categories of personal data), you will need to give your consent to their processing⁴, which may read as follows:

I consent to the processing of special categories of data referred to in Article 9(1) of the GDPR, which are contained in (e.g. my CV, cover letter and other attached documents), by the University of Warsaw for the purpose of my participation in the recruitment process.

The University of Warsaw will process your personal data, including in future recruitment rounds, if you give your consent⁵, which may read as follows:

I consent to the processing of my personal data for the purpose of its use in future recruitment rounds conducted by the University of Warsaw for a period of the next 9 months.

You may withdraw all of the above consents at any time, for example by sending an email to sekretariat.IGF@fuw.edu.pl (please specify the relevant recruitment process)

We would also like to remind you that the withdrawal of your consent does not affect the lawfulness of the processing carried out on the basis of your consent prior to its withdrawal.⁶

¹ Article 22¹ of the Act of 26 June 1974 – Labour Code (consolidated text: Journal of Laws 2019, item 1040, as subsequently amended)

² Article 6(1)(b) 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) (Official Journal of the EU L 119 of 4 May 2016, p. 1, as amended) (hereinafter the GDPR);

³ Article 6(1)(a) of the GDPR;

⁴ Article 9(2)(a) of the GDPR.

⁵ Article 6(1)(a) of the GDPR;

⁶ Article 7(3) of the GDPR;

Data retention period

Your personal data collected during the current recruitment process will be retained for a period of three months from the end of the recruitment process.

If you have given your consent to the use of your personal data for future recruitment purposes, your data will be used for a period of 9 months.

Recipients of the data

Authorised employees of the controller who need to process personal data as part of their duties and professional responsibilities will have access to your personal data.

Data recipients may also include entities to which the controller has outsourced specific activities involving the processing of personal data, such as
(list all data recipients)

Transfer of data outside the European Economic Area (EEA)

Your personal data will be disclosed to entities authorised to receive it under the law. We manage registrations via Google Forms. Your data will be processed by our G Suite for Education service provider, Google, at its data centres.⁷ Your data will be protected by the standards set out in the Privacy Shield, approved by the European Commission.⁸ This will ensure an appropriate level of security for your data.

Rights of data subjects

Under the terms of the GDPR, you have the right to:

- access your data and receive a copy of it;
- rectify (correct) your personal data;
- restrict the processing of your personal data;
- erase your personal data, subject to Article 17(3) of the GDPR;
- lodge a complaint with the President of the Office for Personal Data Protection if you consider that the processing of your personal data infringes the law.

Information on the requirement to provide data

The provision of your personal data to the extent required by law is necessary in order to participate in the recruitment process. The provision of any other personal data is voluntary.

.....
(place and date)

.....
(candidate's signature)

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

⁸ <https://www.privacyshield.gov>