

Faculty of Physics University of Warsaw in the framework of SONATA BIS 12 project: "*Smart passive materials capable of heating or cooling to temperatures different than ambient without additional power supply*"

offers
one 36-month doctoral scholarship

Project description

In the project, we plan interdisciplinary basic research dedicated to discovering new structures, new ways of shaping and managing emissivity/absorptivity characteristics, and identifying the most suitable polymeric materials for future thermal management applications. The project's immediate goal is to develop a new type of nanostructured material which emissivity/absorptivity can be tuned on the fly. Such functionality will allow heating or cooling to temperatures different from ambient without electricity.

<https://projekty.ncn.gov.pl/opisy/566889-pl.pdf>

Requirements

- Master's degree, MSc Eng., or an equivalent qualification.
- Solid knowledge and experience in optics, photonics, solid-state physics, and chemistry.
- Experience in the fabrication of photonic nanostructures, including techniques such as e-beam Physical Vapour Deposition, anodization, slot-dye coating, spin coating, or ALD.
- Experience in performing optical, morphological, or thermal measurements, particularly proficiency in using ellipsometers, FTIR spectrometers, SEM microscopes, and building custom optical setups.
- Numerical modeling skills of physical properties will be an additional asset.

Key responsibilities

- development of good quality homogenous organic and inorganic films and layers for ellipsometric measurements
- development of radiative structures with desired mechanical, thermal and optical properties
- manuscript preparation and conference presentations

Scholarship

- Type: Full-time scholarship
- Number of scholarships: 1
- Amount:

Months 1–24: 4971.20 PLN gross gross

Months 25–36: 6259.00 PLN gross gross

The scholarship may be subject to public law charges in accordance with Polish law.

- Duration: 36 months, starting October 1, 2025

- Application deadline: **August 17, 2025**
- The scholarship does not cover tuition fees nor relocation costs.

Interested candidates should send the following documents electronically to sekretriak.IGF@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 and achievements
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 scholarship award is subject to the rules set out in the NCN regulations on funding research projects (załącznik do uchwały Rady NCN nr 59/2024 z dnia 6 czerwca 2024 r) and the provisions of the Higher Education Law (Act of July 27, 2005) or the Law on Higher Education and Science (Act of July 20, 2018).

The selected candidate must submit original documents and provide the required certificates.

A candidate may apply before defending their master's thesis provided that they submit the original master's diploma and required documents by September 22, 2025.

If the selected candidate resigns, the right is reserved to nominate another candidate from the ranking list.

PhD student status is not required for participation in the competition. Admission to the Doctoral School is subject to the decision of the School Director, following a positive opinion of the School Council.

The competition results will be announced by August 18, 2025. Candidates will be individually notified of the date of any potential interview with the selection committee and the results by email.

Additional information about the project: dr Tomasz Stefaniuk, t.stefaniuk@igf.fuw.edu.pl, tel. 225532022

Information relating to personal data processing

1. Personal Data Controller

Pursuant to Article 13 of the 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) (hereinafter referred to as “GDPR”), the Controller of your personal data is the University of Warsaw, 26/28 Krakowskie Przedmieście, 00-927 Warsaw.

You may contact the Controller in one of the manners provided at:

<https://www.uw.edu.pl/kontakt/>.

2. Data Protection Officer (DPO)

The Controller has appointed a Data Protection Officer (DPO who may be contacted about matters concerning your personal data via e-mail at: iod@adm.uw.edu.pl. You may contact the DPO in all the matters regarding the processing of your personal data by the University of Warsaw and executing your rights related to personal data processing.

However, the DPO’s duties shall not include other matters, such as current matters related to the concluded contract, receipt of documents related to the performance of the contract, etc.

3. Objectives, legal basis and processing period

Your personal data will be processed for the purposes of:

- conclusion and performance of the scholarship contract – for the term of the agreement (legal basis: Article 6(1)(b) of the GDPR);
- establishment, enforcement or defense of potential contractual claims – for a period of three years from the expiry of the contract (legal basis: Article 6(1)(f) of the GDPR);
- the performance of accounting and tax obligations – for the period of five years from the end of the calendar year (legal basis: Article 6(1)(c) of the GDPR).

For the purpose of performance of the concluded contract, your personal data shall be processed within the scope necessary to perform the concluded contract. All other personal data shall be processed if necessary for the purposes of exercising rights and duties resulting from a legal provision, and/or other applicable regulations.

All your other personal data shall be processed in specific cases after you have given your separate consent to its processing (Article 6(1)(a) of the GDPR), which you have the right to withdraw at any time. Please also be reminded that your withdrawal of consent shall not affect the lawfulness of processing based on your consent before its withdrawal (Article 7(3) of the GDPR).

4. Data recipients

Your personal data may also be shared with parties authorized pursuant to the provisions of law, .e.g. the National Science Center. Access to your personal data shall also be granted to authorized employees of the Controller who must process your personal data as part of their professional tasks and duties.

Other entities that the Controller commissioned to perform certain activities, e.g. providers of services of personal and property protection, postal and courier services, transport services etc., entailing the necessity to process personal data may be data recipients.

You professional data may also be provided to parties to the contracts concluded by the Controller, if it is necessary for the performance of these contracts and results from the contracts concluded.

5. Data transfers outside of the European Economic Area (EEA)

Your personal data may also be processed by Google, our G-Suite for education service provider at their data processing centers.¹

6. Rights of data subjects

According to the principles specified by the GDPR, you have the right to:

- access your data and receive its copy,
- rectify (correct) your personal data;
- restrict personal data processing;
- erase personal data (subject to Article 17(3) of the GDPR);
- object.

You also have the right to lodge a complaint with the President of the Personal Data Protection Office if you believe that the personal data processing violates the law.

7. Information on the data provision requirement

Provision of your personal data within the scope resulting from the legal and other regulations in order to allow the performance of tasks under the contract concluded is necessary to conclude a contract with you. Providing other personal data is voluntary.

.....
(Place and date)

.....
(Candidate's signature)

¹ <https://www.google.com/about/datacenters/locations/index.html>

