

Research scholarship in materials science (chemistry/physics/biomedical engineering/biology)

The scholarship is funded by the National Science Centre of Poland through the OPUS project No. 2024/53/B/ST11/01815.

Unit: NanoBioMedical Centre, Adam Mickiewicz University, Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

Research fields: chemistry (polymer chemistry, physical chemistry); physics (rheology, chemical physics); biology (cytotoxicity); engineering (biomaterials engineering, chemical engineering)

Application deadline: 25.06.2025 at 23:59 CEST (Europe/Warsaw)

Position starting date: 01.10.2025

Hours per week: 40

Number of available scholarships: 1

Offer description: A 3-year research scholarship is available at the NanoBioMedical Centre of Adam Mickiewicz University in Poznań, Poland, in the group of Prof. AMU Dr hab. Olena Ivashchenko. The scholarship will be awarded for a period of 12 months, i.e. until 30/09/2026, with the possibility of extension for another 24 months.

The goal of the project is to design vitreous hydrogel scaffold for filling an intraocular defect during vitrectomy (VitreGel). The VitreGel is conceptualized as artificial extracellular matrix of vitreous humour, will be injectable and contain compounds naturally originated in the vitreous tissue, such as hyaluronan, collagen II and/or collagen V/XI, etc. The main responsibilities of the PhD student will include physicochemical characterization, optical and rheological measurements of the hydrogels, their biological evaluation (e.g., cytotoxicity, angiogenic, antimicrobial properties), as well as analysing and presenting the results.

Formal requirements:

A scholarship recipient may be a person who, at the time of starting to receive the scholarship, is a participant in doctoral studies or a doctoral student status in a doctoral school.

Requirements:

1. Completed MSc course in chemistry, biology, physics, materials science or related field;
2. Student status in a doctoral program/doctoral school in a discipline of chemical, physical, materials engineering or biological sciences;
3. Readiness to dedicate to scientific work;
4. Flexible working hours;
5. Good English communication skills;
6. Documents: motivation letter, curriculum vitae with a list of publications and conference appearances (if any), copy of the MSc diploma, a copy of a document confirming the status of a doctoral school student, letter of reference from a scientific advisor (not necessarily the MSc thesis supervisor).

Additional information:

Benefits: Realization of a PhD thesis in an interdisciplinary research group, working on high-class scientific equipment located in a modern research centre, presenting results at conferences and being a co-author of scientific publications.

Selection process: Selected candidates will be invited for a job interview (in person or via the Internet).

Application deadline: The application deadline is 25.06.2025.

Websites related to the offer:

https://projekty.ncn.gov.pl/index.php?projekt_id=622829

<https://cnbm.amu.edu.pl/en>

E-mail address for sending the applications: oleiva@amu.edu.pl

Please include in your application: "I consent to the processing of my personal data for the purposes of organizing and conducting the competition and providing information on the results of the competition. I acknowledge that the administrator of my personal data is Adam Mickiewicz University in Poznań, ul. Wieniawskiego 1, 61-712 Poznań. I am aware that providing data is voluntary, but necessary to achieve the purposes for which it was collected (in accordance with the Act of May 10, 2018 on the protection of personal data, Journal of Laws of 2018, item 1000)". Legal basis: 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) and the Act of 10 May 2018 on the protection of personal data (Journal of Laws of 2018, item 1000)."