

Call for applications for a research scholarship for a doctoral student participating in the WEAVE-UNISONO project 2025/07/Y/ST5/00057, entitled *Photoactive, supramolecular, and biocompatible materials suitable for antimicrobial photodynamic therapy*

Institution: Nicolaus Copernicus University in Toruń, Faculty of Chemistry, Department of Biomedical Chemistry and Polymers

Position: PhD student – scholarship recipient

Requirements:

- status as a doctoral student enrolled in a doctoral school no later than the date of commencement of the NCN research scholarship
- laboratory experience (including knowledge of spectroscopic techniques: FT-IR, ATR-FT-IR, UV-Vis, and spectrofluorimetry; familiarity with graphics and specialist software: Mestre, Essential FT-IR, UV Probe, and TA Universal Analysis; knowledge of the mechanical properties of materials; experience working with proteins, including protein–material interactions)
- very good command of English
- commitment and strong motivation to conduct scientific research,
- communication skills and the ability to work independently and as part of a team.

Description of tasks:

1. Characterisation of the physicochemical properties of the obtained polymeric materials in the form of films, sponges, and gels.
2. Analysis of surface morphology and topography, roughness, and porosity of the materials.
3. Investigation of the thermal and mechanical properties of the obtained biomaterials.
4. Evaluation of material degradation rates and their behaviour under controlled temperature and relative humidity conditions.
5. Determination of the conditions for effective cross-linking of modified polymers.
6. Processing and analysis of the research results.

NCN funding scheme: WEAVE-UNISONO

Application deadline: 30 November 2026

Date of selection decision: 7 December 2026

Application method: electronically

Scholarship conditions:

Scholarship amount: PLN 4,000 per month.

Planned duration: 21 months (1 January 2027 – 30 September 2028), with the possibility of extension.

Place of research: Faculty of Chemistry, Nicolaus Copernicus University in Toruń.

The NCN research scholarship is an additional financial benefit, independent of the regular doctoral scholarship paid by the doctoral school. The scholarship will be awarded through an open competition and paid under a scholarship agreement concluded with Nicolaus Copernicus University in Toruń.

Additional information

Applicants are requested to submit the following documents:

1. Academic CV including information on education, research experience, publications, and other scientific achievements.
2. Document confirming doctoral student status at a doctoral school
3. A brief cover letter explaining the applicant's interest in participating in the project.

Applications should be sent to: dorotachd@umk.pl

The controller of applicants' personal data is Nicolaus Copernicus University in Toruń, ul. Gagarina 11, 87-100 Toruń, Poland. Personal data provided in the application documents will be processed for the purpose of conducting the selection procedure for an NCN research scholarship under the WEAVE-UNISONO project (2025/07/Y/ST5/00057).