

**Name of entity:**

Institute of Physics, Faculty of Materials Engineering and Technical Physics, Poznan University of Technology

**Position name:**

PhD Student – stipend

**Requirements:**

- MSc in physics or chemistry,
- Solid background in molecular physics, biophysics, spectroscopic and microscopic techniques, experience in operating laser setups,
- A broad knowledge of molecular spectroscopy,
- Strong technical background, knowledge of optics and/or electronics will be an asset,
- Knowledge of scientific software such as Matlab and/or LabVIEW will be beneficial,
- Very good level of written and oral English language,
- The successful applicant should be enrolled in a doctoral school.
- Professional approach and self-motivation.

**Tasks:**

The goal of this project is to elucidate the nature of sterol aggregate formation in biomimetic cell membranes using pump-probe like microscopy approach. The PhD student will construct and optimize microscopy setup that accommodates pump-probe microscopy experiments. In the next stage he/she will focus on preparing biomimetic cell membranes with induced sterol aggregation and imaging sterol crystals in various lipid membrane conditions.

In general, the PhD student is expected to design, execute and evaluate experiments independently; design, construct and modify experimental setups; to be able to collaborate with others including research trips abroad; prepare scientific reports and research manuscripts and disseminate scientific results at conferences.

This position and research tasks are the part of the NCN project, “*Zobaczyć niewidzialne – badanie agregatów steroli w biomimetycznych błonach komórkowych za pomocą mikroskopii przeniesienia modulacji*”, OPUS 19, 2020/37/B/ST4/01785.

Principal investigator: PhD Łukasz Piątkowski.

**Funding scheme:**

OPUS 19 NCN

**Form of submission of offers:**

e-mail: lukasz.j.piatkowski@put.poznan.pl

**The conditions of employment:**

The remuneration amounts to 5000 PLN (gross) per month for 22 months.

**Additional information:**

Complete application should include the following items:

- a complete scientific curriculum vitae, including a list of scientific achievements (scholarships, publications, patents, conference presentations, etc.),
- motivation letter,
- a list of 2 persons willing to provide reference letters,

Please add below mentioned sentence to the scientific curriculum vitae:

*„I agree to the processing of personal data provided in this document for realizing the recruitment process at Poznan University of Technology in Poznan to carry out the current recruitment procedure”.*

The documents should be sent to: [lukasz.j.piatkowski@put.poznan.pl](mailto:lukasz.j.piatkowski@put.poznan.pl)

Call opening: 14 March 2023

Application deadline: 28 March 2023

Results by: 30 March 2023

Starting date: 1 April 2023

Selected candidates will be invited for an interview. Successful candidate will be selected by the committee chaired by the project leader.