**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 / chemistry / biochemistry / biophysics,
- Solid background in molecular physics, biophysics, spectroscopic and microscopic techniques; hands-on experience in microscopy,
- Strong technical background, knowledge of optics and/or programming will be an asset,
- Knowledge of scientific software such as Matlab, LabVIEW will be beneficial,
- Very good level of written and oral English language,
- The successful applicant is obliged to enrol or should already be enrolled in the doctoral school of the Poznan University of Technology,
- Professional approach and self-motivation.

**Tasks:**
The project aims to study the spatial orientation of selected guest molecules in various model biological membranes and provide insights, at the molecular level, into the mechanisms modulating the spatial orientation of these molecules. This will be achieved using a pallet of microscopy and spectroscopy techniques. The PhD student is expected to construct/modify and optimize microscopy setups in order to accommodate the required experiments. In the next stage he/she will focus on preparing biomimetic cell membranes with the selected guest molecules and tracking the spatial orientation of those guests in different membrane model systems with varying properties (structure, composition, hydration, complexity). In general, the PhD student is expected to design, execute and evaluate experiments independently; to design, construct and modify experimental setups; to be able to collaborate with others including research trips abroad; to prepare scientific reports and research manuscripts as well as to disseminate scientific results at conferences.

This position and research tasks are the part of the NCN project, "*Molecular freeze dance - tracking the spatial orientation of molecules in biomimetic cell membranes"*, SONATA BIS 12, 2022/46/E/ ST4/00132.

Principal investigator: Łukasz Piątkowski, PhD, prof. PUT.

**Funding scheme:**
SONATA BIS 12, NCN

**Form of submission of offers:**
e-mail: lukasz.j.piatkowski@put.poznan.pl

**The conditions of employment:**
The remuneration (stipend) amounts to 3000 PLN per month for the period of 48 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

Call opening: 17 July 2023
Application deadline: 31 July 2023
Results by: 15 August 2023
Starting date: 2 October 2023

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