Name of entity:
Faculty of Materials Engineering and Technical Physics of Poznan University of Technology

Position name:
PhD Student – scholarship

Requirements:

- MSc in physics, chemistry or engineering,
- Experience covering metallic nanoparticles their characterization and properties,
- A broad knowledge of molecular spectroscopy,
- Experience with photonic simulation software such as Lumerical or SIMULIA CST Studio Suite will be a plus,
- Proficiency in English speaking and writing,
- If the successful applicant is not enrolled to a doctoral school in Poland, to be eligible, the applicant is required to submit their application to the doctoral school of the Poznan University of Technology.

Tasks:
The goal of this project is to fabricate tailorable two-dimensional lattices of gold hydrophobic nanotriangles and decahedral nanoparticles, which will be used in metal enhanced detection of chlorophyll-like pigments.
The PhD Student will be involved with photophysical and photochemical characterization of metallic nanoparticles and their hybrid systems with chlorophyll-like dyes in the Langmuir layers and at the air-solid interfaces by means of Raman and fluorescence spectroscopy.

Scholarship for PhD students in the NCN project, *Tailoring a nanoplatform for surface enhanced detection of chlorophyll-like pigments by Langmuir technique*, SONATA 15, 2019/35/D/ST4/02037.

Principal investigator: PhD Michał Kotkowiak.

Funding scheme:
SONATA 15 NCN

Form of submission of offers:
e-mail

The conditions of employment:
The scholarship is 4 300 PLN per month for 36 months.

Additional information:
Complete application should include the following items:

- scientific curriculum vitae, including a list of scientific achievements (scholarships, publications, patents, conference presentations, etc.),

- motivation letter,
- recommendation letter,
- a transcript of the grades/credits received during the last stage of studies.

Please add below mentioned sentence to the scientific curriculum vitae:
„I agree to the processing of personal data provided in this document for realising the recruitment process at Poznan University of Technology in Poznan to carry out the current recruitment procedure”.

The documents should be sent to: michal.kotkowiak@put.poznan.pl

Call opening: 1 June 2020
Application deadline: 16 August 2020
Results by: 1 September 2020

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