



INSTYTUT MASZYN PRZEPLYWOWYCH

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JOB OFFER IN INTERNATIONAL OPUS PROJECT

Smart photon management in a photonic structure fabricated via laser irradiation

Financed by the National Science Centre

and realized in the Laboratory of Functional Materials IMP PAN and coordinated

by PhD. K. Grochowska

[project description: <https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2021-03-15bhga1/streszczenia/521968-en.pdf>]

PhD student/Scholar

Requirements:

- knowledge in the field of materials engineering and/or electrochemistry and/or photophysics and/or research techniques of solid state physics (e.g. UV-vis and Raman spectroscopies, SEM, AFM, gas chromatography, cyclic and linear voltammetry, electrochemical impedance spectroscopy)
- MSc degree in chemistry, physics, materials engineering, nanotechnology, mechanics or closely related disciplines is welcome
- predisposition to work in the laboratory conditions
- ability to work independently
- knowledge of English (at least at an intermediate level)
- accuracy, willingness to learn and openness to challenges
- an additional advantage will be knowledge of software dedicated for data analysis and graph preparation (e.g. Origin)
- an additional advantage will be scientific activity, e.g. participation in science fairs, conferences or co-authoring publications

Work conditions

- Scholarship 4400 PLN/mc brutto (3900 PLN/mc netto) for 48 months
- Work in young and dynamically developing team
- Access to the unique experimental setups (i.e. setup for electrochemical and photoelectrochemical measurements (including IPCE), research setup for continuous and pulsed thermal treatment, for characterization of materials with the use of different spectroscopic techniques: Raman, UV-vis)
- Opportunity to perform short-term trainings in foreign institution (Friedrich-Alexander University Erlangen-Nuremberg, Germany)
- Presentation of scientific results on the national and international conferences

Work duties:

- elaboration of the anodization procedure for fabrication of semitransparent oxide nanotubes, laser modification of prepared materials, characterization of the material using electrochemical methods (including verification of photoactivity and photoconversion efficiency)
- preparation of publications, abstracts for conferences, reports; presentation of results on seminars, conferences
- active participation in conferences, team meetings

If You are interested,

send Your CV containing Your scientific achievements and cover letter to:

PhD. Katarzyna Grochowska, e-mail: kgrochowska@imp.gda.pl, tel. +48 58 522 51 20



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