



INSTYTUT MASZYN PRZEPLYWOWYCH

im. Roberta Szewalskiego

POLSKIEJ AKADEMII NAUK

80-231 Gdańsk

ul. J. Fiszera 14

Tel. (centr.): 58 3460881

Fax: 58 3416144

e-mail: imp@imp.gda.pl

Tel. (sekr.): 58 3416071

www.imp.gda.pl

JOB OFFER IN INTERNATIONAL OPUS-LAP PROJECT

Solar Reduction of CO₂ at Nano-Architected Photoelectrodes Featuring Advanced Photon Management

Financed by the National Science Centre

and realized in the Laboratory of Functional Materials IMP PAN and coordinated by Prof. K. Siuzdak

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 36 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 partners 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, 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:

Ph.D. DSc Eng. Katarzyna Siuzdak, e-mail: ksiuzdak@imp.gda.pl, tel. +48 58 522 51 20



REGON: 000326121

NIP: 584-035-78-82

POLTAX VAT-5UE: PL5840357882

Natowski Kod Podmiotu Gospodarki Narodowej NCAGE: 0409H