



# INSTYTUT MASZYN PRZEPLYWOWYCH

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## **JOB OFFER IN INTERNATIONAL OPUS-LAP PROJECT**

### *Solar Reduction of CO<sub>2</sub> 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

[project description: <https://ncn.gov.pl/sites/default/files/listy-rankingowe/2020-09-30apsv2/streszczenia/501434-en.pdf>]

### **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 and in team
- 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**

- 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:**

- characterization of the material using electrochemical methods (including verification of photoactivity and photoconversion efficiency) and by means of scanning electron microscopy
- 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](mailto:ksiuzdak@imp.gda.pl), tel. +48 58 522 51 20**



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