

JOB OFFER

Position in the project:	Undergraduate student
Scientific discipline:	Chemistry, materials science
Job type (employment contract/stipend):	Stipend
Number of job offers:	2
Remuneration/stipend amount/month	1500 PLN/month
Position starts on:	October 1 st , 2019
Maximum period of contract/stipend agreement:	one jeden rok akademicki academic years
Institution:	Faculty of Chemistry, Jagiellonian University in Kraków
Project leader:	Wojciech Macyk
Project title:	<p>“In quest of a more efficient quantum solar energy exploitation in energy downhill and uphill photocatalytic processes”</p> <p><i>Project is carried out within the TEAM programme of the Foundation for Polish Science</i></p>
Project description:	<p>The goal of this project is to elaborate various photocatalytic and hybrid photocatalytic/catalytic materials with significantly improved efficiencies of quantum solar energy utilization. The project assumes design and synthesis of new photocatalysts in various forms offering high efficiencies of oxidation of organic pollutants or high quantum yield of photon to chemical energy conversion (production of solar fuels). A variety of photoactive catalysts, including hierarchical photocatalytic/catalytic materials, photonic/photocatalytic hybrid materials and defected materials with fine-tuned electronic properties will be designed and studied. The photocatalysts will be optimized towards their application in photocatalytic detoxification of waters and solar fuels production. The photocatalytic materials will be elaborated in cooperation with partners from Germany, Canada, Poland, Australia and Japan. Our project should foster research on photocatalytically active advanced materials and push forward understanding of primary physical and chemical processes taking place in such systems.</p>
Key responsibilities include:	<p>Realization of the sub-projects No. 1, 2, 3, 4:</p> <ol style="list-style-type: none"> 1. Hierarchical photocatalytic and catalytic materials 2. Photonic materials for photocatalytic applications 3. Defected materials in photocatalysis 4. Downhill and uphill processes – towards applications
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Good background in chemistry and/or in a field of materials science 2. Research experience will be advantageous 3. Good command in English
Required documents:	<ol style="list-style-type: none"> 1. Application form (available on the website: www.fotokataliza.pl)

	<ol style="list-style-type: none"> 2. Motivation letter with description of candidate's research interests 3. Curriculum vitae including: list of awards, papers, conference presentations, trainings 4. List of courses with marks and the average mark 5. A letter of recommendation
We offer:	<ul style="list-style-type: none"> ➤ Fellowship 1500 PLN/month ➤ Work in a dynamically developing highly motivated team with access to modern research infrastructure ➤ Opportunity for research internship in laboratory of project partner (collaboration with scientific institutions in Germany, Canada, Poland, Australia and Japan)
Please submit the following documents to:	macyk@chemia.uj.edu.pl
Application deadline:	September 20th, 2019;
For more details about the position please visit (website/webpage address):	www.fotokataliza.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/427680

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."