

JOB OFFER

Position in the project:	Student
Scientific discipline:	Chemistry (photochemistry& biochemist)
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month (*X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN*):	1 500 PLN
Position starts on:	01.03.2018
Maximum period of contract/stipend agreement:	30.09.2018 (with the possibility of extension by 12 months)
Institution:	Cracow University of Technology, Faculty of Chemical Engineering and Technology, Laboratory of Photochemistry and Optical Spectroscopy
Project leader:	Joanna Ortyl
Project title:	Synthesis and photochemistry/photophysics studies of the intelligent luminescent molecular sensors for selective detection in biochemistry and chemistry <i>Project is carried out within the REINTEGRATION (POWROTY) programme of the Foundation for Polish Science</i>
Project description:	The main purpose of this project is the synthesis of new high performance luminescent molecular sensors as well as their quantitative spectrophotometric and spectrofluorometric studies. The developed novel systems will be examined for their suitability, efficiency and effectiveness in real time monitoring of a variety processes using spectrometric methods. The prepared systems will be characterized in terms of their lifetime and quantum yield of fluorescence, photostability, Stokes' shift and the value of the dipole moment in the excited state. Probes will be applied in biological and chemical studies as well as pharmaceutical and polymer industry, and environmental protection.
Key responsibilities include:	<ol style="list-style-type: none"> 1. Spectrophotometric research of developed luminescent molecular sensors.(for example measurement of fluorescence lifetimes, determination of fluorescence quantum yield, registration of excitation, emission spectra and absorption spectra, etc.). 2. Qualitative and quantitative research of the effectiveness and usefulness of developed molecular luminescent sensors in biochemistry.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Basic knowledge of photochemistry and spectroscopy. 2. Independence and laboratory experience (welcome to experience a typical research work and the ability to use equipment used for spectroscopic analysis).

	<ol style="list-style-type: none"> 3. Knowledge of English at least good level enabling analysis of specialist literature and preparation of scientific articles. 4. Average rating of the last academic year of at least 4.0. 5. Creativity and communication skills. Ability to work in a team.
Required documents:	<ol style="list-style-type: none"> 1. Curriculum Vitae with the list of publications, conference presentations and other achievements. 2. A cover letter with a description of the scientific achievements of the candidate. 3. Certificate of student status. 4. The list of subjects with the marks from the last year of study, together with the calculated average of marks for the last year of studies - confirmed in the dean's office or by the Vice-Dean for student.
We offer:	<p>Participation in interdisciplinary research. Ability to work in a young, energetic team. Possibility to hold research internships in national and foreign scientific centers. Possibility of completing an internship in the R & D department of a chemical company. Participation in international and national conferences and trainings. Support in scientific work and great opportunities for scientific development.</p> <p>If you join our team, we will expect your full engagement in the project realization. We appreciate creativity, responsibility, and open attitude, especially when dealing with complex research problems.</p>
Please submit the following documents to:	All materials should be submitted in electronic form to the address: jortyl@chemia.pk.edu.pl with STUDENT-POWROTY in the subject.
Application deadline:	22.02.2018
For more details about the position please visit (website/webpage address):	More information can be obtained from Joanna Ortyl jortyl@chemia.pk.edu.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	-

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."