JOB OFFER

Position in the project:	PhD student
Scientific discipline:	Chemistry
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"):*	3 000 PLN
Position starts on:	01.11.2017
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 ***Project is carried out within the REINTEGRATION (POWROTY) programme of the Foundation for Polish Science***
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:	1. Synthesis of new organic luminescent molecular probe. 2. Spectrophotometric and electrochemical 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.). 3. Qualitative and quantitative research of the effectiveness and usefulness of developed molecular luminescent sensors for polymeric materials in chemistry and in biochemistry.
Profile of candidates/requirements:	1. Master's degree in one of the following disciplines: chemistry or chemical technology. 2. Statute of PhD student in chemistry or chemical technology at the latest on the day of starting the tasks in the project. 3. Experience in laboratory work in chemistry and / or chemical technology, eg active participation in scientific groups, internships scientific and / or industrial studies. 4. Knowledge of spectroscopic techniques: IR, NMR, UV-Vis.

	5. Knowledge of English at least good level enabling analysis of specialist literature and preparation of scientific articles. 6. Communication abilities and ability to work in a team.
Required documents:	1. Curriculum Vitae with the list of publications, conference presentations and other achievements. 2. Letter of motivation with description of scientific and technical achievements and scientific interests. 3. Scan diploma of master's degree 4. An official list of grades from I st and IInd stage of studies. 5. Average grade from the recruitment process from PhD studies for applicants from the 1st year of PhD studies. In the case of II or III or IV year candidates from PhD studies, an official list of grades for each semester.
We offer:	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. 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.
Please submit the following documents to:	All materials should be submitted in electronic form to the address: joanna.ortyl@photohitech.com with PhD-POWROTY in the subject.
Application deadline:	15.10.2017
For more details about the position please visit (website/webpage address):	More information can be obtained from Joanna Ortyl joanna.ortyl@photohitech.com
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."