

JOB OFFER

Position in the project:	<i>PhD student</i>
Scientific discipline:	<i>civil engineering, environmental engineering, materials science, chemistry, environmental protection, geology</i>
Job type (employment contract/stipend):	<i>scholarship</i>
Number of job offers:	<i>2</i>
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	<i>3 800 PLN of full remuneration cost (scholarship)</i>
Position starts on:	<i>1.10.2019</i>
Maximum period of contract/stipend agreement:	<i>36 months</i>
Institution:	<i>Lublin University of Technology, Faculty of Civil Engineering and Architecture / Lublin</i>
Project leader:	<i>Prof. Wojciech Franus</i>
Project title:	<i>Fly ashes as the precursors of functionalized materials for applications in environmental engineering, civil engineering and agriculture</i>
	<i>Project is carried out within the TEAM-NET programme of the Foundation for Polish Science</i>
Project description:	<i>This TEAM-NET joint project assumes using fly ashes as a precursors for the synthesis of novel functionalized materials with the structure of not only zeolites, but also mesoporous silica materials and metal-organic frameworks (MOFs). Then produced materials will be tested for possible applications in agriculture, civil and environmental engineering. With the implementation of new technologies of coal combustion and flue gas treatment, new types of fly ashes with increased content of unburned carbon (up to 30%) have been produced. Such byproducts will be used in this project for the synthesis of novel zeolite-carbon composites. Previous work related to the use of this type of fly ashes was focused on the separate production of zeolites or activated carbons, which did not fully exploit the potential of the above-mentioned byproducts. Their use as a precursor to the synthesis of a zeolite-carbon-vermiculite composite in this project will also pave the way for developing a novel material to replace vermiculite raw materials in agricultural applications.</i> <i>In this joint project 6 independent subprojects/work packages (with separate budgets) will be conducted. Selected (in an open contest) group leaders will have their own budget (around 3,500,000 PLN for 36 months) for the creation of their own research group (two post-docs, two PhD students, technician and additional, part-time scientific staff member) and to conduct researches in the particular topic.</i>
Key responsibilities include:	<i>Synthesis of porous materials.</i> <i>Analysis of the physico-chemical properties of porous materials.</i> <i>Preparing and writing scientific articles for international journals.</i>
Profile of candidates/requirements:	<i>The candidate must have higher education degree (Master of Science) in the field of: chemistry, geology, environmental protection, civil engineering (former construction),</i>

	<i>environmental engineering, material engineering or a third-cycle student in the above-mentioned field.</i> <i>The candidate can show documented scientific achievements (publications in scientific journals and conference materials).</i> <i>The candidate must be fluent in English (both speaking and writing) enabling communication and understanding of publication texts.</i> <i>The candidate must have basic knowledge of issues in the field of synthesis and research concerning properties of porous materials.</i> <i>Preferentially, the candidate should have predispositions for scientific and organizational work.</i>
Required documents:	<i>Written application for the competition.</i> <i>Curriculum vitae including (with the note "I consent to the processing of my personal data contained in the offer for the purposes of the recruitment process in accordance with the Personal Data Protection Act of 29.08.1997, Journal of Laws No. 101, item 926, as amended.").</i> <i>List of publications with specifying the 5-year IF for each publication.</i> <i>Participation in scientific conferences (name, date, type of presentation – speech, poster).</i> <i>Participation in the research projects (name, date, nature of participation, head of the project).</i> <i>Subject of current research (engineering (bachelor), master's, doctoral dissertation).</i> <i>Copies of obtained diplomas.</i> <i>Documented information about completed courses and trainings.</i> <i>Other activities (scientific clubs/circles, student conferences).</i>
Please submit the following documents to:	wb.sekretariat@pollub.pl and w.franus@pollub.pl
Application deadline:	23.09.2019
For more details about the position please visit (website/webpage address):	https://euraxess.ec.europa.eu/jobs/439097
Appeal	<i>Possible appeals against the decision should be sent to prof. Wojciech Franus (project coordinator, w.franus@pollub.pl) no later than 7 days after receiving the decision, i.e. the date of results announcement. In the protest an explicit justification have to be included.</i>