

JOB OFFER

Position in the project:	<i>Post-doc</i>
Scientific discipline:	<i>biotechnology, microbiology, biochemistry</i>
Job type (employment contract/stipend):	<i>Employment contract (full-time)</i>
Number of job offers:	<i>1</i>
Remuneration/stipend amount/month:	<i>10 000 PLN of full remuneration cost, i.e. expected net salary at around 6 400 PLN (1400 EUR) for a junior postdoctoral researcher (up to 5 years after obtaining the PhD diploma)</i>
Position starts on:	<i>01.10.2022</i>
Maximum period of contract/stipend agreement:	<i>12 months</i>
Institution:	<i>University of Warsaw, Faculty of Biology / Warsaw</i>
Project leader:	<i>Prof. Wojciech Franus</i>
Project title:	<p><i>Fly ashes as the precursors of functionalized materials for applications in environmental engineering, civil engineering and agriculture.</i></p> <p>Project is carried out within the TEAM-NET programme of the Foundation for Polish Science.</p>
Project description:	<p><i>This TEAM-NET joint project assumes using fly ashes as a precursor 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 by-products 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 by-products. 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></p> <p><i>With this announcement we are looking for a post-doctoral researcher for the work-package #5 entitled "Biopreparations for pollutant removal from water, soil and air". The aim of WP #5 is to develop a series of biopreparations (bacteria immobilized on carriers derived from functionalized materials) to enhance the process of bioremediation of contaminated waters, soils and gases. Selected bacterial strains (proposed by the group leader) need to be analysed for the following abilities (i) degradation of pesticides and petroleum hydrocarbons, (ii) metabolism of nitric and sulphur oxides, (iii) degradation of volatile organic compounds, and (iv) denitrification of nitrates. Selected strains will then be thoroughly analysed for their metabolic potential, ability to survive under extreme environmental conditions (e.g. the presence of heavy metals in high concentrations), ability to form biofilms and biological safety. In the next stage, conditions for effective immobilization of the selected strains on the functionalized materials and on natural carriers (e.g. zeolites)</i></p>

	will be worked out. The planned R&D work should also include experimental verification of the biopreparations, both <i>ex situ</i> and in pilot bioreactors or directly in industrial tanks.
Key responsibilities include:	<ol style="list-style-type: none"> 1. Planning, supervision and participation in pilot studies of wastewater treatment and soil bioremediation 2. Genetic and phenotypic characterization of microorganisms (bacteria and fungi) involved in bioremediation and wastewater treatment. 3. Chemical and biochemical characterization of the contaminated soil and wastewater 4. Preparing and writing scientific articles for international journals. 5. Participation in scientific conferences.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. The candidate must be a young scientist – up to 5 years after obtaining the PhD diploma in experimental biology (molecular biology, biotechnology, applied microbiology, biochemistry). 2. Research experience in microbiology, biotechnology or biochemistry. 3. More specifically, the candidate should be experienced in methods associated with some of the following research areas: biocatalysis, environmental and applied microbiology, and bioremediation. 4. The candidate must be fluent in English (both speaking and writing).
Required documents:	<ol style="list-style-type: none"> 1. Written application for the competition. 2. Curriculum vitae including: <ol style="list-style-type: none"> 2.1. A detailed description of the academic degrees and titles, titles of theses (master and doctoral, along with short description of main achievements in each thesis – up to 300 characters including spaces), years of receiving the degree/academic title, names and affiliation of supervisors and reviewers of each thesis. 2.2. The academic career – chronological indication of places of employment with the indication of posts and contact details of the direct supervisor. 2.3. List of scientific publications/monographs/books/chapters – including the full list of authors, an indication whether the candidate was the corresponding author of the given publication, title, full title of the journal and 5-year IF. 2.4. Participation in conferences (list of conferences in which the candidate took an active part, stating whether it was a lecture or a poster), internships abroad (research stays), and most important trainings. 2.5. List of awards and distinctions, including their range (international/national). 2.6. Other activities (scientific clubs/circles, student conferences) and information (e.g. patents, patent application, commercial). 3. Recommendation letter from the last employer (direct supervisor) and address details of two other scientists who may recommend the given candidate. Alternatively, recommendation letter can be emailed by former supervisor directly to ts.kaminski2@uw.edu.pl. 4. Copies of obtained diplomas. <p>All documents must be prepared in the English language.</p>
Please submit the following documents to:	dr Tomasz Kaminski ts.kaminski2@uw.edu.pl and prof. Lukasz Drewniak ldrewniak@biol.uw.edu.pl . Please include the number of the Euraxess offer (801721) in the title of your application email.

Application deadline:	31.07.2022
For more details about the position please visit (website/webpage address):	https://www.fnp.org.pl/oferta_pracy http://wbia.pollub.pl/pl/praca http://www.wggios.agh.edu.pl/pracownicy https://www.biol.uw.edu.pl/pl/index.php?option=com_content&view=category&layout=blog&id=148&Itemid=317
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/801721
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>
Consent to personal data processing	<p><i>To allow us to process your data, please include the following statement in your application:</i></p> <p><i>“I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.”</i></p>