

JOB OFFER

Position in the project:	<i>Post-doc (adjunct)</i>
Scientific discipline:	<i>chemical technology, chemistry</i>
Job type (employment contract/stipend):	<i>employment contract (half-time job)</i>
Number of job offers:	<i>1</i>
Remuneration/stipend amount/month	<i>7 500 PLN of full remuneration cost, i.e. expected net salary at 4 500 PLN</i>
Position starts on:	<i>01.03.2022</i>
Maximum period of contract/stipend agreement:	<i>7 months</i>
Institution:	<i>AGH University of Science and Technology; Faculty of Geology, Geophysics and Environmental Protection / Cracow</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>
Key responsibilities include:	<i>1. Using advanced instrumental methods (GC-MS, HPLC-MS) for the determination of sorbates concentration and characterizing sorbent materials.</i> <i>2. Helping with sorption experiments of organic and inorganic compounds on porous materials from the technical point of view.</i> <i>3. Tracking current research trends in the scientific literature.</i> <i>4. Preparing and writing scientific articles for international journals.</i>
Profile of candidates/requirements:	<i>1. The candidate must be a young scientist (max. 9 but min. 6 years after obtaining the PhD diploma)</i> <i>2. The candidate must have a PhD diploma in chemistry.</i> <i>3. The candidate must know the methods used for the sorbate concentration analysis (GC-MS, HPLC-MS).</i> <i>4. The candidate must have experience acquired in conducting analyzes in an accredited laboratory.</i> <i>5. The candidate must have knowledge of quality management systems confirmed by certificates.</i>

	6. <i>The candidate must know English (both speaking and writing), enabling communication.</i>
Required documents:	1. <i>Written application for the competition.</i> 2. <i>Curriculum vitae including:</i> 2.1. <i>A detailed description of the academic degrees and titles, titles of theses (master and doctoral, along with a 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.</i> 2.2. <i>The academic career – chronological indication of places of employment with the indication of posts and contact details of the direct supervisor.</i> 2.3. <i>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.</i> 2.4. <i>List of conducted scientific projects (as the coordinator/principal investigator) funded by external project-funding agencies – entries should be provided with the project title, project number, the amount of funding, time of project realization, all documents (including patents, patent applications, know-how, etc.) produced in the course of project realization.</i> 2.5. <i>List of supervised bachelor, engineer, master (with the indication of the unit) and list of supervised PhD students as an assist supervisor.</i> 2.6. <i>Participation in conferences (list of conferences in which the candidate took active part, stating whether it was a lecture or a poster), internships abroad (research stays) and most important trainings.</i> 2.7. <i>List of awards and distinctions including their range (international/national).</i> 3. <i>Recommendation letter from the last employer (direct supervisor) and address details of 2 other scientists who may recommend the given candidate.</i> 4. <i>Copies of obtained diplomas.</i> 5. <i>Documented information about completed courses and trainings.</i> 6. <i>Other activities.</i> 7. <i>All documents must be prepared in the English language</i>
Please submit the following documents to:	bajda@agh.edu.pl
Application deadline:	03.02.2023
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/ogloszenia-praca
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/53299
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>