

JOB OFFER

Ref No.: DS19/W3/10/2022

Job title:	PhD student-Scholar
Field:	chemical engineering
Remuneration method (remuneration under an employment contract / scholarship):	Scholarship
Number of job offers:	1
The amount of remuneration / scholarship ("PLN 0,000 full remuneration costs, i.e. the approximate amount of net remuneration is PLN X,000"):	Up to 4000 PLN
Date of commencement of work:	01.02.2023
Period of employment:	Until 01.10.2024 with the possibility of extension
Institution (company / institute / department / university / institution, city):	Department of Engineering and Technology of Chemical Processes, Faculty of Chemistry, Wrocław University of Science and Technology/Wrocław
Project manager:	Dr hab. Ewelina Ksepko, prof. PWr
Project title:	"Understanding the phenomenon of degradation of solid oxygen carriers during cyclic redox reactions through the implementation of experimental research and development of a strategy for its elimination" Acronym: GEPARD
Project description:	--
Research tasks:	-synthesis of solid oxygen carriers based on complex d-block metal oxides with perovskite and spinel structure, - testing their reactivity with fuels, kinetics study (TGA-MS methods, small fixed bed reactor system) - testing of physicochemical properties (mechanical and thermal strength), - morphology and chemical composition study (SEM-EDS)

Expectations towards candidates:	<ul style="list-style-type: none"> - Master's degree in chemistry, chemical technology, material engineering, environmental protection or related - starting studies at the Doctoral School at WUST, since February 2023 - documented knowledge of the spoken and written English language at a minimum level of B2 - the ability to quickly acquire new knowledge - willingness to take on ambitious challenges - independence and responsibility for the work performed - experience in the synthesis of functional compounds - knowledge and experience in the field of solid state testing methods (e.g. TGA-MS, XRD, SEM, low power reactors) - a person without the above-mentioned experience will have to undergo mandatory internal training completed with an exam - knowledge of Mathcad and Origin programs will be an advantage
List of required documents:	<ul style="list-style-type: none"> - CV - a copy of the graduate diploma - a copy of the Diploma Supplement - list of publications, participation in conferences and research experience (if the candidate has one)
We offer:	<ul style="list-style-type: none"> - doctoral scholarship of up to PLN 4000 / month (depending on qualifications) - implementation in research topics - foreign research internships - the possibility of development and gaining new qualifications - work in a young, dynamic team - employment at the prestigious University - the possibility of applying for accommodation in the Assistant's House / Dormitory of the Wrocław University of Science and Technology on preferential terms
Additional information about recruitment (e.g. website address):	After submitting the documents, an interview will be conducted with the candidates on the Zoom platform
Link to the Euraxess website (for PhD candidates and postdoctoral candidates):	
Address for submitting applications (e-mail):	ewelina.ksepko@pwr.edu.pl
Deadline for submitting applications:	23.11.2022

Please include a clause in the documents sent, a declaration of consent to the processing of personal data in the job offer for the purposes of the recruitment process in accordance with art. 6 sec. 1 a GDPR (i.e. Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46 / EC).