

JOB OFFER

Position in the project:	student
Scientific discipline:	Electrochemistry / Materials Science
Job type (employment contract/stipend):	stipend
Number of job offers:	1
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	2 500 PLN / month
Position starts on:	1.03.2020
Maximum period of contract/stipend agreement:	12 months
Institution:	Institute of Chemistry and Technical Electrochemistry / Faculty of Chemical Technology / Poznan University of Technology, Poznań, Poland
Project leader:	Dr. Eng. Paula Ratajczak
Project title:	<i>"A novel concept of sustainable capacitor based on carbon-ion technology – CARBionCAP"</i> <i>Project is carried out within the POWROTY/REINTEGRATION programme of the Foundation for Polish Science</i>
Project description:	The objective of the CARBionCAP project is to deliver a novel concept of sustainable capacitor, introduced as carbon-ion capacitor (CIC), for designing affordable energy-storage devices implemented in electric vehicles, portable tools, industrial automation and power engineering systems. Since the capacitor will not require the implementation of expensive and depleted metals, such as lithium, the developed CIC is expected to become in the future a competitor to Li-ion capacitors by utilizing safe, cheap and available materials, free of political constraints, while providing high energy, high power and long cycle life.
Key responsibilities include:	Working in the framework of the project will focus on: <ul style="list-style-type: none"> • Synthesis, modification and characterization of electrode materials • Selection and characterization of electrolytes • Research on the electrochemical properties of materials and constructed cells as well as on-line analysis of the charging/discharging mechanisms and ageing of the systems • Analysis and interpretation of experimental data • Writing reports and publications, preparing/presenting research results at scientific conferences • Cooperation with project partners
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. A valid student status (from the beginning of the contract, i.e. 1.03.2020); preferred students from the following studies: chemistry, chemical technology, engineering or similar. 2. Knowledge in the area of materials science and electrochemistry (especially chemical energy sources) 3. Willingness to work in a team as well as strong motivation and enthusiasm for scientific research 4. Required at least good English language skills
Required documents:	<ol style="list-style-type: none"> 1. Motivation Letter 2. Current curriculum vitae with emphasis on scientific achievements, work experience and publications

	<p>3. Confirmation of the student status (the candidate needs to have a valid student status starting from the beginning of the contract, i.e. 1.03.2020)</p> <p>4. List of grades from studies (academic transcript)</p> <p>5. Copy of Bachelor thesis and diploma</p> <p>6. At least one letter of reference prepared by a senior researcher familiar with their work</p> <p>The candidate will be selected by taking into account: I) skills and knowledge with respect to the Project area, II) experience of the candidate in other research work, e.g. participation in research projects, III) grades obtained during studies so far. Selected candidates will be invited to an interview with the Recruitment Committee. All candidates will be informed via e-mail about the results of the competition</p>
We offer:	<ul style="list-style-type: none"> • Participation in a very attractive scientific program focused on applied research • Great opportunities to accomplish a scientifically interesting doctoral dissertation • Work in a recognized team of researchers and collaboration with eminent scientist • Access to unique top-level equipment • Possibility to disseminate the obtained results in high-rated scientific journals and on international conferences • Possibility to participate in scholarships, trainings and international research visits
Please submit the following documents to:	paula.ratajczak@put.poznan.pl
Application deadline:	10.02.2020
For more details about the position please visit (website/webpage address):	http://powersourcesgroup.put.poznan.pl/?p=1154 https://www.fct.put.poznan.pl/pl/content/3195
Euraxess job/stipend offer (in case of PhD, postdoc, leader and young leader positions):	

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that your job advertisements include a clause requesting the candidate's consent to the processing of his or her personal data by the institution which carries out the recruitment process.