

Position in the project:	PostDoc – young doctor position;
Scientific discipline:	Materials science, electronic materials, electrochemistry;
Job type (employment contract/stipend):	Full time employment;
Number of job offers:	1
Remuneration/stipend amount/month:	15000 PLN of full remuneration cost, i.e. expected net salary 8000 PLN/month.
Position starts on:	possible from 1 st February 2020 onwards;
Maximum period of contract/stipend agreement:	14 months (maternity cover);
Institution:	Laboratory of Functional Materials, Faculty of Electronics, Telecommunications and Informatics, Gdańsk University of Technology, Gdańsk, Poland
Project leader:	Sebastian Molin, PhD
Project title:	Nanocrystalline ceramic materials for efficient electrochemical energy conversion <i>Project is carried out within the First TEAM programme of the Foundation for Polish Science</i>
Project description:	The aim of the project is construction of efficient devices for electrochemical energy conversion. Two research tracks will be carried out in parallel: development of intermediate temperature solid oxide cells (500 – 600 °C) and low temperature alkaline electrolyzers (AECs – Alkaline Electrolysis Cells). For the electrolyzers, a new ceramic processing equipment for electrospinning of nanofibers will be constructed. It will allow for fabrication of new single and multiphase materials. The materials will be characterized electrochemically to evaluate their water decomposition parameters in alkaline solutions. Several iterations of electrode materials will be developed in order to increase their current density and improve long term durability.
Key responsibilities include:	<ol style="list-style-type: none"> 1. Development of electrospinning technique – synthesis of ceramic and composite nanofibers; 2. Characterization of the materials: structural and electrical; 3. Electrochemical characterization of electrode materials; 4. Data analysis and reporting;
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. PhD title in the field of materials science, chemistry, physics, electronics or similar; 2. Knowledge about experimental methods used in liquid electrochemistry; 3. Good working knowledge of English – publication writing skills; 4. Motivation to hard work in the laboratory, good group/collaborative work skills, mentoring students etc. 5. Independence at work, positive can-do attitude, good problem solving skills;

Required documents:	<ol style="list-style-type: none"> 1. CV (in Polish or English); 2. 1 reference letter (in Polish or English); 3. Publication and conference presentations list; 4. Motivational letter (in Polish or English);
We offer:	Position in a young and active group working in the field of energy conversion materials. Many opportunities for professional self-improvement. Possibilities to travel and gain international experience. Attendances in conferences and workshops. Work will be performed in a well-equipped lab with collaboration with other groups.
Please submit the following documents to:	sebastian.molin@pg.edu.pl
Application deadline:	20 th January 2020 *selected candidates will be invited for an interview
For more details about the position please visit (website/webpage address):	www page: eceramics.eti.pg.gda.pl, sofc.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/473291

Please include in your offer:

“I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.”