

## JOB OFFER

Position in the project:	PhD student
Scientific discipline:	Chemistry, Physical Chemistry, Materials Science
Job type:	Stipend
Number of job offers:	1
Stipend amount/month:	<i>net salary of 4500 PLN/month</i>
Position starts on:	Jan 01 2020
Maximum period of contract/stipend agreement:	4 months
Institution:	Polymer Research Laboratory, Department of Chemistry, University of Warsaw
Project leader:	Dr. Pawel W. Majewski
Project title:	<i>Innovative Nanostructured Functional Materials by Combinatorial Methods of Directed Self-Assembly of Block Copolymers</i>  <i>Project funded under the First Team program by the Foundation for Polish Science (FNP)</i>
Project description:	PhD students will participate in a short research project focused on processing, characterization and application of nanostructured block copolymers (BCPs). The research involves both the fundamental studies of soft materials self-assembly in search for non-conventional nanostructural motifs and the practical application of BCPs and BCP-derived nanostructures in filtration membranes, transparent electrodes, light polarizers, anti-reflection layers, superhydrophobic coatings, chemical sensors and catalytic materials. We are seeking for highly-motivated candidates with well-balanced experimental and theoretical skills, interested in soft materials, polymers, liquid crystals, thin-films, surface science and nanomaterials synthesis. The project includes collaboration with scientists from the National Synchrotron Light Source II in Brookhaven National Laboratory, USA, where X-ray scattering experiments will be performed.
Key responsibilities include:	<ol style="list-style-type: none"> <li>1. Polymeric materials processing and characterization</li> <li>2. Polymer-templated synthesis of inorganic nanomaterials</li> <li>3. Characterization of the materials using various physicochemical methods (e.g. TEM, SEM, SAXS, UV-Vis, AFM, ellipsometry, IES)</li> <li>4. Automated image analysis (coding skills are welcome)</li> </ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"> <li>1. MSc or equivalent degree in Chemistry, Physics, Chemical Engineering or Material Engineering</li> <li>2. Research experience in at least one of the following: polymer science, surface science, soft-matter physics, X-ray scattering and/or crystallography</li> <li>3. High motivation for learning new techniques</li> <li>4. Good communication skills in English</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>1. Curriculum Vitae</li> <li>2. A copy of MSc diploma</li> <li>3. A copy of transcript of grades from undergraduate courses</li> <li>4. At least one Recommendation letter (sent by a referee directly to pmajewski@chem.uw.edu.pl)</li> <li>5. Mandatory enrollment into the PhD program at the Faculty of Chemistry, University of Warsaw within the first year of work</li> </ol>

	(Passing UW-administered test or GRE Subject test in Chemistry, Physics or Mathematics with a score >60% is required)
We offer:	<ol style="list-style-type: none"> <li>1. Travel funds for synchrotron visits and scientific conferences</li> <li>2. Acquiring skills in the field of soft, self-assembling materials research, surface science and X-ray techniques</li> <li>3. Friendly and highly motivating team-work environment</li> </ol>
Please submit the following documents to:	pmajewski@chem.uw.edu.pl
Application deadline:	Dec 24th 2019, selected candidates will be asked for interview via Skype or in-person
For more details about the position please visit:	www.majewskiresearch.com
Euraxess job/stipend offer (in case of PhD and postdoc positions):	<a href="https://euraxess.ec.europa.eu/jobs/">https://euraxess.ec.europa.eu/jobs/</a>

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."