

## JOB OFFER

Position in the project:	Student
Scientific discipline:	Nanotechnology / Physics / Chemistry
Job type (employment contract/stipend):	Scholarship
Number of job offers:	1
Remuneration/stipend amount/month (“X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN”):	1500 PLN (netto)
Position starts on:	01.07.2019 (in special cases, the starting date can be delayed by up to 3 months)
Maximum period of contract/stipend agreement:	12 months
Institution:	NanoBioMedical Centre, Adam Mickiewicz University in Poznań, Poland
Project leader:	Dr. Mikołaj Lewandowski
Project title:	Multifunctional ultrathin Fe(x)O(y), Fe(x)S(y) and Fe(x)N(y) films with unique electronic, catalytic and magnetic properties  <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 preparation and physico-chemical characterization of ultrathin (1-2 atomic layers) films of iron oxides, sulfides and nitrides on single crystal supports. Metal oxides, sulfides and nitrides exhibit unique electronic, catalytic and magnetic properties that may find potential applications in various industrial fields. The studies carried out within the project are performed using ultra-high vacuum (UHV) methods, such as scanning tunneling microscopy (STM), low energy electron diffraction (LEED) and x-ray photoelectron spectroscopy (XPS), as well as chromatographic and magnetometric techniques. In addition, part of the studies is performed in cooperation with research groups from Fritz-Haber-Institut der Max-Planck-Gesellschaft in Berlin (Germany), Università degli studi di Genova (Italy) and the University of Wrocław (Poland).
Key responsibilities include:	<ol style="list-style-type: none"> <li>1. Preparation of ultrathin iron oxide, sulfide and nitride films on single crystal supports under ultra-high vacuum;</li> <li>2. Studies of structure, electronic, catalytic and magnetic properties of the prepared nanostructures.</li> </ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"> <li>1. Status of a student starting from October 2019 his/her 3rd, 4th or 5th year of MSc or BSc/Eng studies in physics or chemistry (or related sciences, e.g. materials engineering);</li> <li>2. Good grade average;</li> <li>3. Eagerness to realize a MSc thesis within the project in the period of 12 months;</li> <li>4. Readiness to dedicate to scientific work;</li> <li>5. Flexible working hours;</li> <li>6. Very good English communication skills.</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>1. Motivation letter;</li> <li>2. Curriculum Vitae with a list of publications and conference appearances (if any);</li> </ol>

	3. Up-to-date confirmation of student status.
We offer:	Realization of a MSc thesis in an interdisciplinary research group, work on high-class scientific equipment located in a modern research centre, a possibility to present scientific results on conferences and co-authorship of scientific publications.
Please submit the following documents to:	lewandowski@amu.edu.pl
Application deadline:	19.06.2019 Selected candidates will be asked for a job interview on 21.06.2019 (in person or via the Internet).
For more details about the position, please visit (website/webpage address):	<a href="http://www.cnbm.amu.edu.pl">http://www.cnbm.amu.edu.pl</a> , <a href="https://www.surfacescience.pl">https://www.surfacescience.pl</a>
Euraxess job/stipend offer (in case of PhD and postdoc positions):	<a href="https://euraxess.ec.europa.eu/jobs/407841">https://euraxess.ec.europa.eu/jobs/407841</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."