

## JOB OFFER

Position in the project:	PhD student
Scientific discipline:	Physics / Chemistry / Nanotechnology
Job type (employment contract/stipend):	Scholarship
Number of job offers:	2
Remuneration/stipend amount/month (“X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN”):	4000 PLN (netto)
Position starts on:	01.07.2017
Maximum period of contract/stipend agreement:	36 months
Institution:	NanoBioMedical Centre, Adam Mickiewicz University in Poznan, 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 the preparation and physico-chemical characterization of ultrathin (1-2 atomic layers) films of iron oxides, sulfides and nitrides on single crystalline supports. Metal oxides, sulfides and nitrides exhibit unique electronic, catalytic and magnetic properties that may find potential applications in various industrial fields. Studies carried out with the project will be performed using ultra-high vacuum (UVH) methods, e.g. scanning tunneling microscopy (STM), low energy electron diffraction (LEED) or x-ray photoelectron spectroscopy (XPS), as well as chromatographic and magnetometric techniques. In addition, the project will feature 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 iron oxide, sulfide and nitride nanostructures under ultra-high vacuum;</li> <li>2. Studies of structure, electronic, catalytic and magnetic properties of prepared nanostructures.</li> </ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"> <li>1. Completed MSc course in physics or chemistry (or related sciences, e.g. materials engineering);</li> <li>2. Readiness to dedicate to scientific work;</li> <li>3. Flexible working hours;</li> <li>4. 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;</li> <li>3. Copy of the MSc diploma (or an official document confirming the MSc thesis defense date not later than one week before the start of the project);</li> </ol>

	4. Letter of reference from a scientific advisor (not necessarily the MSc thesis supervisor).
We offer:	Realization of a PhD thesis in an interdisciplinary research group, work on high-class scientific equipment located in a modern research centre, visits at foreign and national partner groups, a possibility to present scientific results on conferences and co-authorship of scientific publications.
Please submit the following documents to:	cnbmadm@amu.edu.pl with a copy to lewandowski@amu.edu.pl
Application deadline:	14.06.2017 Selected candidates will be asked for a job interview on 16.06.2017 (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="http://surfacescience.weebly.com">http://surfacescience.weebly.com</a>
Euraxess job/stipend offer (in case of PhD and postdoc positions):	<a href="https://euraxess.ec.europa.eu/jobs/218533">https://euraxess.ec.europa.eu/jobs/218533</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."