

## JOB OFFER

Position in the project:	Student
Scientific discipline:	Chemistry: Physical Chemistry, Inorganic Chemistry, Electrochemistry
Job type (employment contract/stipend):	stipend
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"):	1800 PLN / month (total gross)
Position starts on:	01.11.2022
Maximum period of contract/stipend agreement:	12 months (with the possibility of extension)
Institution:	Faculty of Chemistry, University of Warsaw
Project leader:	PhD Dominika Buchberger
Project title:	<i>Ni-Mn-Co system with gradient concentration design as cathode material for energy storage</i> <b>Project is carried out within the SONATA 17 programme of the National Science Center (Poland)</b>
Project description:	The main goal of the proposal is to find a forward-looking design of only NMC system leading to a new class of electrochemical materials for Lithium-ion batteries (LIBs). This two-dimensional structure imparts high Li <sup>+</sup> mobility to the material. Despite the extensive studies, a single optimal composition has not been found yet for the NMC since each of constituent cations has a different role to play in the cathode material. There is a demand to compromise high electrochemical capacity and cycle retention, safety and environmental beingness.
Key responsibilities include:	<ol style="list-style-type: none"> <li>1. Syntheses of electrode materials;</li> <li>2. Structural and morphological characterization of electrodes and electrochemical testing including long cycling;</li> <li>3. Data analyses and writing reports;</li> <li>4. Preparation of BSc/Engineer/MSc thesis;</li> <li>5. Full involvement in the project (at least 20h weekly).</li> </ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"> <li>1. Student in the field of chemistry, physics, materials science or related at the moment of the employment in the project;</li> <li>2. Candidate with an active student status at the moment of the project employment;</li> <li>3. Laboratory work experience is welcome, especially in the field of energy storage, work in the glovebox, chemical synthesis, electrochemical and structural techniques, and or data analysis etc.;</li> <li>4. A person having patience, being careful and precise in a laboratory work;</li> <li>5. Communicative knowledge of English (read, write and verbal);</li> <li>6. A strong motivation to work in the laboratory, good teamwork;</li> <li>7. Positive can-do attitude, good problem-solving skills; Full involvement in the project topic.</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>1. CV (in English) including (1) achievements: especially <b>scientific achievements</b> like publications, patent applications, patents, conference presentations or a short description of thesis findings, (2) information about awards, student stipends, internships or</li> </ol>

	<p>summer schools experience etc.; (3) involvement into scientific grants; (4) list of know synthesis methods and laboratory characterization techniques; (5) involvement into student science clubs and/or student councils; (6) work experience, cooperation with industry, work internships.</p> <p>2. Cover letter (in English) explaining why the candidate is interested in the project topic, what is his/her current laboratory experience (if he/she worked in the glovebox, knows any scientific equipment: spectroscopic, morphological and/or electrochemical techniques, knows any chemical synthesis), what is his/her best scientific/educational achievement, why she/he thinks is a suitable person for this position;</p> <p>3. Transcription of records from Bachelor/Engineer and Master degree programmes (if applicable);</p> <p>4. Certification of acceptance for BSc or MSc studies or certification of active student status; The active student status certification is not mandatory at the time of application, although a candidate <b>must hold an active student status at the University of Warsaw or other Polish scientific institution by 1<sup>st</sup> Oct 2022.</b></p> <p>5. Certification of English knowledge, or other proof (self-statement, grade from the MSc/BSc studies, studies in English (e.g. Erasmus) etc.);</p> <p>6. 1 reference letter from previous supervisor/mentor (if possible).</p>
<p>We offer:</p>	<p>A PhD position in a young dynamic group working in the field of energy storage. We give you the opportunities for personal and scientific self-improvement, possibilities to travel through attending conferences and gain international experience. Your work will be performed in a well-equipped laboratory for lithium technology research with collaboration with other scientific institutions in Poland and abroad.</p>
<p>For more details about the position please visit (website/webpage address):</p>	<p><a href="http://www.chem.uw.edu.pl">www.chem.uw.edu.pl</a></p>
<p>Please submit the following documents to:</p>	<p><a href="mailto:d.buchberger@uw.edu.pl">d.buchberger@uw.edu.pl</a> with the e-mail entitled: <b>SONATA 17 Student Application – sent in one PDF file</b></p>
<p>Application deadline:</p>	<p>21.10.2022 (12 PM – Warsaw (EU) time)</p>

**To allow us to process your data, please include the following statement in your application:**

#### **AGREEMENT CLAUSE**

"I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary."

.....  
Place and date

.....  
Legible signature of the applicant

#### **INFORMATION CLAUSE**

In accordance with Article 13 of REGULATION (EU) 2016/679 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data – general regulation on data protection (Official Journal of the EU L 119/1 of 4 May 2016) the University of Warsaw informs that:

1. The Controller of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa;
2. The Controller has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: [iod@adm.uw.edu.pl](mailto:iod@adm.uw.edu.pl);
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 221 § 1 of the Act of 26 June 1974 Labour Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
5. Provision of data in the scope stipulated in the Labour Code is mandatory, and the remaining data are processed according to your consent for processing of personal data;
6. The data will not be shared with any external entities;
7. The data will be stored until you withdraw your consent for processing of personal data;
8. You have the right to access your personal data, to rectify, erase them, restrict their processing, object to processing, and to withdraw the consent at any time;
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data."