

JOB OFFER

Position in the project:	Student
Scientific discipline:	Chemistry
Job type (employment contract/stipend):	Scholarship
Number of job offers:	1
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	1500 PLN
Position starts on:	02.03.2020
Maximum period of contract/stipend agreement:	2 years
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Dr Silvio Osella
Project title:	Rational design of bio-organic systems for biomimetic applications
Project description:	<p>The goal of this project is to expand our knowledge of hybrid, complex protein-graphene interfaces as possible candidates for bio-electronic devices, such as biosensors, bio-organic photovoltaic cells (bio-OPV) and bio-organic transistors (bio-OFET). The research project focuses on the computational study of a new hybrid protein-graphene interfaces in which the proteins under investigation are small light harvesting proteins (SLPH), interacting with a graphene layer as conducting material as well as charge carrier by means of different molecular linkers (SAM). The interaction and stability of the SLHP/SAM/graphene interface are key parameters to investigate the nature of the interface. Through the use of multiscale computational methods, we will investigate on the one hand the conformational stability and the strength of the interactions at the interface, and on the other hand we will use state-of-the-art methods to account for optoelectronic properties and energy and electron transport mechanisms. In this work we will use a combined docking /molecular dynamics / reactive force-field / quantum chemistry approaches to explore both the static and dynamic properties of the newly designed interfaces.</p>
Key responsibilities include:	1. Use of computational methods to study complex hybrid interfaces
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Enrolled as at least 4th year student of chemistry or related discipline 2. Willing to spend 15-20 hours a week (flexible hours) to do fun projects 3. With good oral/written communication skills in English 4. Although not required, any previous experience in molecular modelling would be welcome
Required documents:	1. A letter confirming that the candidate is currently enrolled as a student at the university

	<p>2. A copy of a BSc certificate (if applicable)</p> <p>3. Short CV (up to two A4 pages), Academic transcript with all degrees</p> <p>4. Reference letter from Bachelor/Master supervisor</p>
We offer:	<p>1. An opportunity to participate in a multidisciplinary project in one of the best scientific institutions in Poland</p> <p>2. Stimulating, young and friendly work environment</p> <p>3. Access to high-end computing equipment (CPU clusters)</p> <p>4. Opportunity of short stays in Belgium (University of Mons)</p>
Please submit the following documents to:	<p>s.osella@cent.uw.edu.pl</p> <p>Selected candidates may be invited for an interview at the Centre of New Technologies of the University of Warsaw. Candidates will be selected in accordance with the regulations of the National Science Centre and announced no later than 28.02.2020</p>
Application deadline:	21.02.2020
FNP programme	

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

"I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. KrakowskiePrzedmieście 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."

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 Administrator of your personal data is the University of Warsaw with its registered office at KrakowskiePrzedmieście 26/28, 00-927 Warszawa;
2. The Administrator 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;
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 22(1) § 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 (this is: name(s) and surname, parents' first names, date of birth, address of residence, correspondence address, education, previous employment);
6. The remaining data are processed according to your consent for processing of personal data;
7. The data will not be shared with any external entities, except for the cases provided for by law;
8. The data will be stored until you withdraw your consent for processing of personal data;
9. You have the right to access your personal data, rectify, erase, restrict its processing and to withdraw the consent at any time – the withdrawal of consent to processing data should be done in written form, acceptably by e-mail sent to hr@cent.uw.edu.pl;
10. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data

11. Your application will be archived and stored for auditing purposes;

12. The name of the selected candidate/s will be made public on the CeNT UW website in accordance with the requirements of the funding agency.