

JOB OFFER

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| Position in the project: | PhD 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>): | 3500 |
| Position starts on: | 01.09.2019 |
| Maximum period of contract/stipend agreement: | 3 years |
| Institution: | Centre of New Technologies, University of Warsaw |
| Project leader: | dr hab. Bartosz Trzaskowski |
| Project title: | Catenanes as new tools for stereoselective catalysts |
| Project description: | The main goal of this research project is a systematic study of homogenous catalysts based on mechanically interlocked molecules directed toward better understanding of the fundamental aspects of their action. The main part of this project consists of the design and computational modelling of new mechanically interlocked catalysts incorporating carbenes in their structure. We will focus on the use of such systems in both organocatalysis as well as transition metal catalysis, with particular emphasis on designing candidates for efficient stereoselective metathesis catalysts. Controlling stereoselectivity in metathesis reactions, and cross-metathesis in particular, has long been a goal of research, as there is a pressing need to develop reliable routes to stereopure internal olefin products. In this work we will use a combined molecular dynamics / reactive force-field / quantum chemistry approach to explore both the static and dynamic properties of the newly designed systems. |
| Key responsibilities include: | <ol style="list-style-type: none"> 1. Design and modelling of electronic properties of mechanically interlocked molecules 2. Analysis of the obtained data 3. Active participation in lab meetings, scientific seminars and international conferences. 4. Participation in the data preparation and writing of manuscripts. |
| Profile of candidates/requirements: | <ol style="list-style-type: none"> 1. Current PhD student in chemistry, physics or related fields of Polish university (or about to become a PhD student by the end of October 2019) 2. MSc degree (or equivalent) in chemistry, physics or related fields (or about to graduate until end of September 2019) |

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| | <p>3. Experience with high-performance computing and Linux environment is required</p> <p>4. Previous experience in molecular modelling (particularly ab initio simulations) is required</p> <p>5. Knowledge of computational and quantum chemistry is required</p> <p>6. Good writing and oral communication skills in English</p> |
| Required documents: | 1. CV and cover letter |
| 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> |
| Please submit the following documents to: | Please send your application to: trzask@cent.uw.edu.pl |
| Application deadline: | 30.08.2019 |
| 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.