



University of Warsaw
Biological and Chemical
Research Centre



JOB OFFER

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| Position in the project: | Early Stage Researcher (PhD Student) |
| Scientific discipline: | Organic chemistry |
| Job type: | Employment contract |
| Number of job offers: | 1 |
| Remuneration/stipend amount/month: | 2468,85 gross €/month (+ 600 gross €/month mobility allowance, and 500 gross €/month family allowance if applicable). The net salary results from deducting all compulsory (employer/employee) social security contributions as well as direct taxes (e.g. income tax) from the gross amounts. The mobility and family allowances are fixed amounts are subject to the tax laws of Poland. |
| Position starts on: | 1 st October 2020 |
| Maximum period of contract/stipend agreement: | 3 years |
| Institutions: | The University of Warsaw, Poland (employing institution) and Universitat Autònoma de Barcelona, Spain (secondment host institution) (Cotutele PhD) |
| Supervisors: | Prof. Karol Grela and Dr. Rosa María Sebastián |
| Project title: | <i>Immobilization of NHC's ligands in Janus Dendrimers. Catalysis in green solvents</i> |
| Project description: | Preparation of phosphorus Janus dendrimers as support for NHC-based catalysts for metathesis reactions in different media, mostly polar, green solvents. The incorporation of polyoxyethylenated chains in the macromolecules will provide water solubility, and polyfluorinated chains will allow catalysis in supercritical CO ₂ , enabling the catalysis to be performed in green solvents. Several generations of dendrimers will be prepared and the dendritic effect on the activity and selectivity of catalytic moieties will be analysed. |
| Key responsibilities include: | The PhD student will work on synthesis of ruthenium complexes supported on Janus dendrimers and their utilisation in olefin metathesis reactions in polar solvents, mainly in water and its mixtures as well as in supercritical CO ₂ . His or her tasks will include the selection of an appropriate catalyst and the optimisation of the reaction conditions to achieve the highest possible yield and selectivity. PhD student will write reports in English of his/her results and will present oral communications or posters in congresses and INT network meetings. His/her participation in writing articles will be required. Moreover, PhD student will participate in a 3 months stage in an industrial organization and 3 months stay in <i>Laboratoire de Chimie de Coordination</i> . PhD student must participate in doctorate activities of both universities. |
| Profile of candidate/requirements: | <ul style="list-style-type: none">• On 1st October 2020, the candidate must be in the first four years (full-time equivalent research experience) of her/his research career and has not been awarded a doctoral degree.• On 1st October 2020, she/he must not have resided or carried out her/his main activity (work, studies, etc.) in Poland for more than 12 months in the preceding 3 years. Compulsory national service and/or short stays, such as holidays, are not taken into account.• Knowledge of organic synthesis and organometallic chemistry• Experience in organometallic synthesis• Knowledge of analytical techniques utilised in organic chemistry (NMR, MS, IR)• Good knowledge of English• Fast learning ability |



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| Required documents: | <ul style="list-style-type: none">• CV• Cover letter• Contact data to at least one person who can provide us with letter of recommendation |
| We offer: | An interesting work in a young, dynamically developing teams, under the guidance of world-class specialists. Familiarisation with modern methods of conducting chemical reactions, as well as the process of commercialization of research results. Three-month secondment in industry and three-month secondment in <i>Laboratoire de Chimie de Coordination (Toulouse, France)</i> . Participation in congresses related to developed chemistry and in training INT network meetings. |
| Further information | <p>This thesis will be part of an International Training Network (ITN) and more specifically a European Joint Doctorate (EJD), funded by the European Commission through the Marie Skłodowska-Curie Action (MSCA), entitled "Coordination Chemistry Inspires Molecular Catalysis" (CCIMC). This programme involves 15 joint theses. You are encouraged to consider all these thesis projects, to be consulted on the ITN-EJD website www.ccimc.eu.</p> <p>At University of Warsaw it is required that all PhD students have to be a participant of Doctoral School. Based on this requirement a successful candidate will be obligated to apply to this School (the next recruitment to the Doctoral School is planned for June 2020). This additional recruitment is independent of the employment procedure.</p> |
| For more details about the position please visit: | www.karolgrela.eu and www.ccimc.eu |
| Please submit the following documents to: | Submission (in one pdf file named in a format surname_name.pdf) to email address: karol.grela@gmail.com , in copy to rosamaria.sebastian@uab.es . <u>In the subject line of your email please place: CCIMC Student Surname Name.</u> |
| Application deadline: | 31.03.2020 |

We reserve the right to inform and invite only selected candidates to an interview. In case a candidate does not sign the contract due to resignation, we reserve the right to choose another candidate from the ranking list.

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



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INFORMATION ON THE PROCESSING OF PERSONAL DATA

INFORMATION CLAUSE

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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 Labor Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
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6. The data will not be shared with any external entities;
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I hereby consent to have my personal data processed by the University of Warsaw with its registered office at 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.

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(place and date)

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(signature of the person applying for employment)