

## Supramolecular Chemistry Laboratory led by Dr Michał Chmielewski

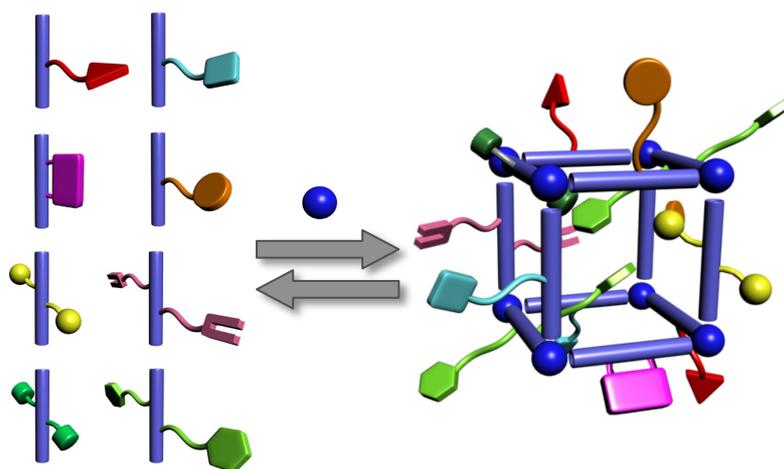
invites candidates for:

**2 PhD positions**

**ca. 6000 PLN net**

financed by the Faculty of Chemistry, Warsaw University and  
Polish National Science Centre under 'OPUS' grant:

## Dynamic Combinatorial Chemistry in Metal-Organic Frameworks



Metal-Organic Frameworks (MOFs) are crystalline and porous coordination compounds in which inorganic building units are connected by organic linkers. They are actively investigated in leading scientific laboratories all over the world in view of their numerous potential applications, such as gas storage, drug delivery, catalysis, sensor technology, ion exchange, non-linear optics, luminescent and magnetic materials and many others.

The aim of this project is to create a revolutionary new class of 'intelligent' MOFs that will be able to adapt to changes in their environment through reversible exchange and recombination of their building blocks in response to external physical or chemical stimuli.

### **We offer:**

- A PhD student status at the Faculty of Chemistry, Warsaw University and an opportunity to work on a PhD thesis connected to the grant topic,
- Fellowship *ca.* 6000 PLN net (of which up to 4500 PLN net will be financed from grant, no longer than 36 months, + a fellowship from the Faculty of Chemistry, Warsaw University – currently *ca.* 1800 PLN net),
- State-of-the-art research facilities - Supramolecular Chemistry Laboratory is located in a new, modern building of Biological and Chemical Research Centre. For more information see: [www.mchmielewski.pl](http://www.mchmielewski.pl)
- Interesting and interdisciplinary research topic and an access to modern and sophisticated research equipment,
- Expected starting date: 01.10.2018.

### **We expect:**

1. MSc in chemistry (preferably organic chemistry). NB.: it is possible to apply at the final year of MSc studies if the defence is planned before 01.10.2018 – in that case please provide the title of your thesis and the name of your supervisor.
2. Doctoral student status by October 1<sup>st</sup> 2018 (we offer help in applying for PhD studies at the Faculty of Chemistry, University of Warsaw).
3. European Union citizenship
4. Not obligatory but highly advantageous: track record of scientific experience (such as publications, participation in research projects, posters and presentations at scientific conferences, participation in Chemistry Olympiad and other competitions).
5. Experience in the synthesis, purification and characterisation of organic compounds; experience in dynamic combinatorial / supramolecular / MOF chemistry would be an asset, but is not compulsory.
6. Other professional skills: ability to analyse and present results; computer skills (including chemical software), proficiency in English (writing and speaking).
7. Personal skills: strong motivation for scientific work, ambition, creativity, goal-orientation, responsibility, capability of team work, communicativeness, and willingness to learn.

### **How to apply:**

Applicants should submit the following documents:

- a) Motivation letter
- b) Professional CV. Please include the following clause: "I agree 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 29.08.1997 ( consolidated text: Journal of Laws 2016, item 922 as amended) and also for my name and the results of the competition to be published on the Faculty of Chemistry webpage".
- c) A pdf file with his/her MSc thesis or an information about predicted date of the thesis submission
- d) Contact details of their MSc thesis supervisor and/or recommendation letter from the supervisor.
- e) Complete list of grades from studies (both part I and part II studies)

The aforementioned documents should be sent by e-mail to Dr Michał Chmielewski: [mchmielewski@chem.uw.edu.pl](mailto:mchmielewski@chem.uw.edu.pl) no later than **12.06.2018** (Tuesday) inclusive.

### **Additional information:**

After preliminary verification and assessment of the submitted documents, selected candidates will be invited for interviews. The interviews will take place between 13th and 16th June 2018. In case of foreign applicants who cannot attend the interview, videoconference may be organised. Competition results will be published by 20<sup>th</sup> June 2018. The organisers reserve the right to contact only selected applicants and to reject all submitted applications, if a competition commission finds that they do not meet the criteria.

For additional information concerning the project leader and the Supramolecular Chemistry Laboratory see: [www.mchmielewski.pl](http://www.mchmielewski.pl) or send an e-mail to: [mchmielewski@chem.uw.edu.pl](mailto:mchmielewski@chem.uw.edu.pl).