

## **PhD fellowship in the Laboratory of Crystal Engineering – Supramolecular Chemistry**

A 4-years PhD fellowship is available in the framework of a SONATA BIS project: “The role of non-covalent interactions in the formation of supramolecular assemblies and the phenomenon of single-crystal-to-single-crystal transformations“, funded by the National Science Centre.

The research will embrace different aspects of Crystal Engineering, applied towards macrocycles (mostly calixarenes), focussing on subjects such as host-guest interactions, porosity and triggered structural transformations in single-crystals. The candidate should have a passion for lab work and be able to perform the synthesis of simple organic molecules. Furthermore, she/he should be familiar with basic methods of compound characterisation ( $^1\text{H}/^{13}\text{C}$  NMR in solution, MS, IR).

Besides synthesis, the work will consist of crystallisations of macrocyclic compounds (using a range of methods), determination of their crystal structure and further studies in the solid-state. The candidate should be motivated to get to know (or already be familiar with) methods such as single-crystal and powder X-ray diffraction, thermal analyses (TGA, DSC) and solid-state NMR.

### **Requirements:**

- obtaining the status of PhD student at the Chemistry Department before November 1<sup>st</sup> 2017 (information about the procedure of students' admission for PhD studies at the Chemistry Department of UW can be found on their website)
- MSc in Chemistry in the field of organic or supramolecular chemistry
- fluency in English
- scientific curiosity
- flexibility
- ability to work in a group, as well as alone

### **Conditions of the employment:**

- 4-years fellowship
- opportunity to work in one of the most prestigious scientific centres in Poland - the Centre of New Technologies (CeNT), University of Warsaw

Applicants should send **(1)** a motivation letter, **(2)** CV, including a list of publications, **(3)** two recommendation letters and **(4)** the study grades from level I and II, to the group leader – dr Liliana Dobrzańska – e-mail: [lianger@cent.uw.edu.pl](mailto:lianger@cent.uw.edu.pl) no later than the **15<sup>th</sup> of August 2017**. The starting date would be the **1<sup>st</sup> of October/November 2017**.