Scientific fellowship at the Chemistry Department, Nicolaus Copernicus University in Toruń, Poland - Supramolecular Chemistry

A scientific fellowship is available within the framework of the OPUS LAP project: "Molecular crystals adapting as a response to external triggers", funded by the National Science Centre (Poland). The research will focus on the host-guest chemistry of organic macrocycles (pillararenes), with the goal of designing tunable functional molecular crystals for trapping and sensing applications.
The ideal candidate should have a strong passion for laboratory work and be proficient in organic synthesis techniques, as well as compound characterization methods, including $^{1}H/^{13}C$ NMR in solution, MS, and IR spectroscopy. Additionally, the position involves crystallization of macrocyclic compounds using various methods, determination of their crystal structures, and conducting further studies in the solid state. Proficiency in techniques such as single-crystal and powder X-ray diffraction, thermal analysis (TGA, DSC), and IR spectroscopy is also required.

Requirements:

- enrollment as a participant in one of the Doctoral Schools
- MSc in Chemistry
- fluency in English
- scientific curiosity and flexibility
- ability to work both independently and collaboratively

Conditions of the employment:

- duration: 11 months
- stipend: 2500 PLN/month
- applicants should send **(1)** a motivation letter, **(2)** CV, including a list of publications, to dr. hab. Liliana Dobrzańska, prof. UMK – e-mail: lianger@umk.pl no later than 9 December 2024. The anticipated start date is 2 January 2025.