



Functional Organic Materials Group,
Division of Organic Chemistry, Faculty of Chemistry
Gronostajowa 2, 30-387 Kraków

www: <http://mjplab.org/>

Applications are invited for a **fully funded Ph.D. position** (2 posts) to work under supervision of Prof. Miłosz Pawlicki on a project funded by the NSC (National Science Centre) Poland entitled: ***Strongly conjugated macrocycles with imprinted chirality - towards efficient CPL emitters***

The core aim of the research programme is to find and optimize new synthetic paths for formation of highly delocalized and conjugated compounds with imprinted chirality derived from helicity and/or axial chirality. Investigation will be focusing on the controlled formation of chiral derivatives able also to bind boron(III) for deeper modulation of observed properties and potential switching behaviour triggered by a fundamental initiator with a view to discovering fundamental science and harnessing the properties for practical technologies.

This post will be based in the Faculty of Chemistry, Jagiellonian University in Kraków and will focus on synthesis of strongly coupled and significantly delocalized derivatives with a macrocyclic or linear structural motif additionally armed with chirality. Three different approaches for formation of those derivatives are planned allowing building a helical or axially chiral derivatives with tuneable optical properties eventually leading to controlled and enhanced emission including the effect in circularly polarized light (CPL) response. The project balances on the interface of several disciplines but focuses on organic synthesis and spectroscopy with intensive involvement of theoretical prediction of properties.

You should already have a M.Sc. degree or equivalent in Chemistry (preferred) or related discipline prior to taking up the post. The post will be based in the Faculty of Chemistry Jagiellonian University in Kraków, Gronostajowa 2, 30-387 Kraków, Poland.

If you are interested do not hesitate to write email and ask a question about these posts. You can also directly apply for this role by contacting Prof. Miłosz Pawlicki at: miłosz.pawlicki@uj.edu.pl. The application has to contain a CV, motivation letter, relevant transcripts, contact details of three individuals wishing to write a supporting letter (one of them should be the last scientific mentor).

The post is available from 1 October 2023. The closing date for applications is 10 June 2023. Only applications received before that time can be considered.

We have also in our research lab an opening for a pot-doc position in the same project for a period of 24 months. For more details please contact Miłosz at miłosz.pawlicki@uj.edu.pl.