

PhD Scholarship Holder in the OPUS 27 project, No. UMO-2024/53/B/ST5/03114

"Synthesis of dynamic thiazolothiazole metal-organic frameworks for storage and separation of gaseous hydrocarbons"

Adam Mickiewicz University in Poznań, Faculty of Chemistry, Department of Crystallography

Number of positions: 2

Requirements:

- Participant of the Doctoral School,
- Good command of the English language at a communicative level, enabling reading and writing scientific articles related to the research topic,
- Experience in organic synthesis, including compounds based on the thiazolo[5,4-d]thiazole core, and synthesis of porous materials is highly desirable.

Project description:

Flexible metal-organic frameworks (flexMOFs) are revolutionary materials that change their structure offering higher efficiency in gas separation and storage compared to rigid traditional metal-organic frameworks. The goal of the project is to understand the mechanisms behind structural changes during the adsorption. These MOFs could provide more energy-efficient solutions for working with hydrocarbons, paving the way for advanced technologies related to gases.

Task description:

- Synthesis and physicochemical characterization of V-shaped dicarboxylic acids and thiazolo[5,4-d]thiazole ligands,
- Synthesis of dynamic metal-organic frameworks and their full characterization, including: SC-XRD; PXRD; TGA; IR,
- Hydrocarbon adsorption measurements,
- Analysis of the obtained results,
- Preparation of publications.

Employment conditions:

The PhD candidate will join the research group in the Department of Crystallography at the Faculty of Chemistry, Adam Mickiewicz University in Poznań. The laboratory is equipped with all the necessary equipment and chemicals required for conducting research within the project. The PhD candidate will receive a scholarship of 2500 PLN per month for a period of up to 24 months. Employment starting from February 1, 2025.

Required documents:

- CV including academic achievements and a clause consenting to the processing of personal data.
- Cover letter including scientific interests
- A signed GDPR statement: Consent clause: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)."

Contact:

Please send your documents to the email: kornel.roztocki@amu.edu.pl.

Additional information can be obtained at: kornel.roztocki@amu.edu.pl

Deadline for submitting documents: February 14, 2025.

Selected candidates will be invited by the Recruitment Committee for an interview (either in person or online). Candidates will be individually informed by email about the date, location, and format of the interview.

RODO Information clause:

Pursuant to Article 13 of Regulation (EU) No. 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC – General Regulation on data protection (Official Journal of the European Union L 119/1 of 04.05.2016) I hereby inform you that.

1. The Controller of your personal data is Adam Mickiewicz University in Poznań with its registered office at 1, Henryka Wieniawskiego Street, 61-712 Poznań.
2. The controller of personal data has appointed a Data Protection Inspector to supervise the correctness of personal data processing, who can be contacted via e-mail address: iod@amu.edu.pl.
3. The purpose of the processing of your personal data is to carry out the recruitment process for the indicated position.
4. The legal basis for the processing of your personal data is Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 and the Labour Code of 26 June 1974 (Journal of Laws of 1998, N21, item 94, as amended).
5. Your personal data will be stored for a period of 6 months from the end of the recruitment process.
6. Your personal data will not be made available to other entities, except for entities authorized by law. Access to your data will be granted to persons authorized by the Controller to process them within the scope of their professional duties.
7. You have the right to access your data and, subject to the provisions of law, the right to rectify, delete, restrict the processing, the right to transfer data, the right to object to the processing, the right to withdraw consent at any time.
8. You have the right to lodge a complaint to the supervisory authority - the President of the Office for Personal Data Protection, ul. Stawki 2, 00-193 Warszawa.
9. Provision of personal data is obligatory on the basis of legal regulations, in the remaining scope it is voluntary.
10. With regard to your personal data, decisions will not be taken automatically, in accordance with Article 22 RODO.