

Position: **PhD student – PhD scholarship**

Number of position available: 2

Hosting institute: Adam Mickiewicz University in Poznan, Center for Advanced Technology
City: Poznań

www.amu.edu.pl or www.wczt.pl

Project: BEETHOVEN CLASSIC 3 UMO-2018/31/G/ST4/04012

Expectations:

- The candidate has the status of a doctoral student, a participant in a doctoral program at the School of Doctoral Studies

and also:

-has a master's degree in chemistry or related sciences (e.g., chemical technology, materials chemistry),

- Knowledge and experience in organic and organometallic chemistry, homo- and heterogeneous catalysis are welcome,

- Experience in chemical synthesis and analysis (spectroscopic, quantitative, qualitative) will be essential for the project,

- The candidate should be characterized by creativity, diligence, strong motivation, good work organization, independence in planning and conducting experiments, ability to work in a team,

- PhD student should be fluent in English and able to work in an international team,

- Skill in using programs, i.e. MS Office, ChemDraw, MestreNova, Endnote,

The competition is open to individuals who meet the conditions specified in the regulations for the allocation of funds for the implementation of tasks funded by the National Science Center under the Beethoven Classic 3 grant.

Task description:

The main goal of the project is to build a new, green strategy in the hydrosilylation of alkynes, imines and carbonyl compounds in continuous flow and repetitive batch systems with the emphasis placed on the application of green solvents (scCO₂, ILs) and catalysts immobilization techniques. The stereoselective catalytic system for the transformation of prochiral reagents will be also envisaged.

The Beethoven Classic grant is carried out in the international polish-german team from Adam Mickiewicz University in Poznan and ITMC RWTH Aachen. The project has high innovative potential. PhD students will be responsible for carrying out tasks within this project, which will be focused on:

- Hydrosilylation of the unsaturated carbon-carbon and carbon-heteroatom bonds,

- Development of new catalytic systems,

- Effective immobilization of the catalysts,

- Carrying out catalytic tests in scCO₂ and conventional solvents,

- Carrying out processes using repetitive batch and continuous flow systems,

- Determination of the process results (TON, TOF, conversion, metal leaching),

- Characterization of obtained products with various analytic techniques,

- Synthesis of novel organosilicon compounds (also chiral),

- Preparation of the PhD thesis concerning project goals and objectives.

Employment conditions:

PhD scholarship is available in the BEETHOVEN Classic 3 Project No. UMO-2018/31/G/ST4/04012, National Science Centre (NCN) entitled "*Continuous flow hydrosilylation in SILP/scCO₂ systems - an innovative approach to reduction and functionalization of alkynes, imines and carbonyl compounds*", which is realized in the Center for Advanced Technology of Adam Mickiewicz University in Poznan.

- Duration of the scholarship: a maximum of 8 months
- Scholarship amount: PLN 3,000.00 (gross)/month
- Planned start date: July 2024
- The project work will be on organometallic chemistry, catalysis and green chemistry,
- Method of remuneration: scientific scholarship

Working in the multidisciplinary Center for Advanced Technology of Adam Mickiewicz University in Poznan.

Cooperation with BEETHOVEN Classic German partner from ITMC RWTH Aachen.

Additional information:

Submission deadline: **31.05.2024**

Selected candidates will be invited for an interview, which will be carried out online. Successful candidates will be selected by a committee chaired by the project leader according to the rules established by the National Science Center.

Contact: dr hab. eng. Jędrzej Walkowiak
Center for Advanced Technology, Adam Mickiewicz University in Poznan Uniwersytetu
Poznanskiiego 10, 61-614 Poznan, Poland
e-mail: jedrzejw@amu.edu.pl

All questions should be addressed to the principal investigator using the above email.

Documents required for application:

The application should be submitted by e-mail with the subject line "PhD student in the BEETHOVEN Classic project - Name of applicant".

- Cover letter with a description of the applicant's research interests,
- Scientific resume including: list of achievements, honors, papers, conference papers, training,
- A copy of the master's degree,
- A certificate confirming that the candidate is a participant in doctoral studies or a doctoral student at a doctoral school in the current academic year
- Signed consent to the processing of personal data of the following content:

Consent clause

In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment.

The applicant should be informed in the job application notice that his/her CV should include a clause with the required content, in which case it will be considered.

.....
date and signature

Applications without the above clause will not be considered

Information clause for jobseekers

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