The reference number: SHAPE_Assistant_1

ADAM MICKIEWICZ UNIVERSITY, POZNAN

ANNOUNCES

A COMPETITION

for the position of Assistant

at the Centre of Advanced Technologies AMU
in the project

Evolution of shape-defined macromolecules into functional systems

number 101116700

Basic Information

Scientific discipline: Chemistry
Number of positions: 2
Employment terms:

- **Number of work hours per week:** full-time, 40 hours per week.
- **Type of an employment contract and expected duration of employment:** fixed-term contract from 01/06/2025 to 31/05/2026 (12 months)with the possibility of prolongation to 4 years
- **Anticipated job starting date:** 01/06/2025
- **Workplace location:** Centre of Programmable Polymers, Centre of Advanced Technologies AMU, Uniwersytetu Poznańskiego 10, 61-614 Poznań, Poland
  Monthly remuneration: Monthly remuneration: 4,685.00 PLN (gross, including social security contributions and taxes; this is the amount specified in the contract), plus a supplementary pay of 35 PLN gross per hour. The total supplementary pay depends on the number of hours worked each month, with an average of 143,33 hours per month (approximately 5 016,55 PLN gross per month).
- **Application deadline:** 30/04/2025.
  Submission format: Electronic submission via email to: szwedalab@gmail.com.
  Subject line: SHAPE_Assistant_1.

Required Documents

1. Cover letter.
2. Curriculum Vitae (CV).
3. Copies of diplomas or certificates confirming education and academic degrees.
4. Consent for personal data processing:
   "In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27

April 2016 (EU Official Journal L 119/1 of 4 May 2016), I consent to the processing of my personal data other than: first name(s) and last name; parents' names; date of birth; place of residence (correspondence address); education; and previous employment history, included in my job application for the purpose of this recruitment process."

Recruitment Terms

Qualification level and experience:
As per Euraxess guidelines for researchers at R1 level (researcher without a doctoral degree).

Job description:
Position: Assistant in the Centre of Programmable Polymers, led by Dr. hab. inż. Róża Szweda, Prof. UAM.

Project description:
The project aims to develop abiotic enzymes capable of selectively catalyzing chemical transformations in non-physiological environments. Unlike natural enzymes, which have evolved to function under biological conditions, abiotic systems will be designed for broader applications in organic synthesis. By precisely controlling the monomer sequences, the project focuses on tailoring the SHAPE of macromolecules to achieve desired catalytic properties.

The research emphasizes the synthesis of sequence-defined polymers, the design of their secondary and tertiary structures through the strategic selection of monomers, and the introduction of catalytic functionalities to enhance the selectivity and efficiency of chemical reactions. Advanced machine learning techniques will support the analysis of sequence-function relationships, enabling the design and prediction of complex catalytic systems.

This innovative approach expands the boundaries of synthetic polymer chemistry, offering a new pathway to create abiotic enzymes with functionalities comparable to natural macromolecules, thus unlocking new opportunities in organic catalysis.

For more information about the team's activities, visit szwedalab.com.

Requirements

- Master's degree in chemistry
- Experience in laboratory work
- Creativity, ability to work in a team, commitment, and motivation to achieve research goals
- Good command of English
- Documented experience in preparative organic synthesis

- Knowledge of polymer chemistry will be an advantage
- Hands-on experience in chromatographic methods (GC, HPLC, Flash)
- Knowledge of basic spectroscopic methods used to identify organic compounds (NMR, FTIR, CD, UV-vis, fluorescence)
- Ability to design and perform syntheses of organic compounds
- Experience in working with an automated synthesizer
- Ability to prepare scientific publications and present research results
- Proficiency in software such as Origin, Mendeley, MNova

Benefits

- A friendly and collaborative work environment based on mutual respect
- Work in a young, ambitious, and international research team
- Additional social benefits and access to the university's social fund
- "13th" salary
- Support for employees with disabilities
- Opportunities for professional development and training
- Possibility to pursue a PhD within the team (for interested candidates)

The selection process

- Competition committee begins working no later than 14 days after the deadline for submission of documents.
- Formal evaluation of submitted proposals.
- Interviews for selected candidates who meet the formal requirements.
- The chair of the recruitment committee announces the results and informs the candidates.

Applications should be submitted electronically to:
szwedalab@gmail.com
Project leader: Prof. UAM Dr. hab. inż. Róża Szweda.

The recruitment committee reserves the right to contact only selected candidates. Results will be announced on the website: amu.edu.pl.

RODO Information Clause :
Pursuant to Article 13 of the General Data Protection Regulation of 27 April 2016. (Official Journal of the EU L 119 of 04.05.2016) we inform that:

1. The controller of your personal data is Adam Mickiewicz University, Poznań with the official seat: ul. Henryka Wieniawskiego 1, 61 - 712 Poznań.
2. The personal data controller has appointed a Data Protection Officer overseeing the correctness of the processing of personal data, who can be contacted via e-mail: iod@amu.edu.pl.
3. The purpose of processing your personal data is to carry out the recruitment process for the indicated job 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, with the exception of entities authorized by law. Access to your data will be given to persons authorized by the Controller to process them in the performance of their duties.
7. You have the right to access your data and, subject to the law, the right to rectification, erasure, restriction of processing, the right to data portability, the right to object to processing, the right to withdraw consent at any time.
8. You have the right to lodge a complaint to the supervisory authority - the Chairman of the Office for Personal Data Protection, ul.Stawki 2, 00 - 193 Warszawa.
9. Providing personal data is mandatory under the law, otherwise it is voluntary.
10. Your personal data will not be processed by automated means and will not be subject to profiling.