PROGRAMMABLE POLYMERS LABORATORY

HR EXCELLENCE IN RESEARCH

The reference number: ERC_SHAPE_Technician_1

ADAM MICKIEWICZ UNIVERSITY, POZNAN

ANNOUNCES

A COMPETITION

for the position of Technician.

at the Centre of Advanced Technologies AMU
in the project

Evolution of shape-defined macromolecules into functional systems

number 101116700

1. Basic Information

Scientific Discipline: Chemistry
Work Hours: Full-time
Employment Basis: Fixed-term employment contract from 01.02.2025 to 31.01.2026 (12 months), with the possibility of extension
Start Date: 01.02.2025
Workplace: Center for Advanced Technologies UAM, ul. Uniwersytetu Poznańskiego 10, 61-614 Poznań, Poland
Monthly Salary: Approx. €1,870.52 (approx. PLN 8,043.23 gross)

2. Application Deadline and Submission

Deadline: 10.01.2025
Submission Method: Applications should be sent electronically to **szwedalab@gmail.com**
Reference Number: ERC_SHAPE_Technician_1 (please include in the email subject line)

3. Required Documents

- Cover letter
- Curriculum Vitae
- Master's degree diploma in chemistry or a certificate confirming education (for foreign degrees, documents must meet equivalence criteria as defined in Article 328 of the Higher Education and Science Law)
- Information on professional experience (optional: list of publications, participation in research projects)
- Contact details of two referees
- Consent to the processing of personal data (full content available in the job announcement)

4. 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**.

5. Requirements and Qualifications

Candidates must meet the following criteria:

- **Education**: Master's degree in chemistry
- **Laboratory Experience**, including:
  - Basic organic synthesis techniques
  - Familiarity with chromatographic methods (e.g., HPLC, GC, Flash Chromatography)
  - Knowledge of basic spectroscopic methods (NMR, FTIR, UV-vis)
- **English Proficiency**: Communicative level
- **Skills**: Teamwork and laboratory organization

Preferred Qualifications:

- Knowledge of polymer chemistry
- Experience in scientific data analysis and report preparation

6. Benefits

- Friendly work atmosphere and professional development support
- Flexible working hours
- Funding for training and courses
- Additional social benefits (life insurance, vacation fund, “13th salary”)

7. Selection Criteria

- Motivation for research work
- Ability to collaborate within a scientific team
- Relevant laboratory experience

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UAM

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.