



**ADAM MICKIEWICZ UNIVERSITY, POZNAN**

**ANNOUNCES**

**A COMPETITION**

**for the position of assistant professor-postdoctoral trainee (post-doc)**

**at the Faculty of Chemistry**

**in the project “Design, characterization, and the performance mechanism description of  
heterostructured semiconductor materials in photocatalytic systems and dye-sensitized  
photovoltaic cells”**

**number 2024/53/B/ST5/01357**

<b>Basic information</b>
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- 1. Research discipline (research field):**  
Chemical sciences.
- 2. Number of work hours per week including a task-based work schedule (if applicable):**  
Full-time, 40 hours a week in a task-based working time system.
- 3. Type of an employment contract and expected duration of employment, i.e.: permanent/temporary/fixed-term contract for ..... year/...years**  
Fixed-term employment contract: from approx. June 1st, 2025, to May 31th, 2026, with the possibility of an extension for the next 12 months.
- 4. Anticipated job starting date:**  
June 2025
- 5. Workplace location:**  
Adam Mickiewicz University, Poznań, Faculty of Chemistry  
Collegium Chemicum, 8 Uniwersytetu Poznańskiego str., 61-614 Poznań, Poland
- 6. Monthly salary:**  
ca. 9000 zł gross/month
- 7. Application deadline and process:**

Deadline for submitting applications: April 13th, 2025. Address for submitting applications (e-mail): [maciej.zalas@amu.edu.pl](mailto:maciej.zalas@amu.edu.pl)

## 8. Required documents

- Application form/letter of the candidate;
- *Curriculum Vitae*;
- Diplomas or certificates issued by colleges and universities attesting to education and degrees or titles held (in case of academic degrees obtained abroad - the documents must meet the equivalence criteria set out in Article 328 of the Act of 20 July 2018 Law on Higher Education and Science (Journal of Laws of 2024, item 1571; Polish: Dz. U. z 2024 poz. 1571 t.j.);
- Information on the Applicant's research, teaching, and organizational achievements,
- Other documents as determined by the competition committee.
- Consent to the processing of personal data as follows: *In accordance with Article 6 (1) (a) of the General Data Protection Regulation of 27 April 2016. (OJ EU L 119/1 of 4 May 2016) I consent to the processing of personal data other than: first name, (first names) and surname; parents' first names; date of birth; place of residence (mailing address); education; previous employment history, included in my job offer for the purpose of the current recruitment."*

<b>Conditions of the competition determined by the competition committee</b>
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### I) Determination of qualifications: (researcher profile) according to the Euraxess guidelines

- ☐ (R1) First Stage Researcher (up to the point of PhD)
- ☒ (R2) Recognised Researcher (PhD holders or equivalent who are not yet fully independent)
- ☐ (R3) Established Researcher (researchers who have developed a level of independence)
- ☐ (R4) Leading Researcher (researchers leading their research area or field)

### II) Job Offer description

Description of the tasks:

- Participation in the research tasks of the NCN OPUS 27 project, No. 2021/43/D/ST5/01190 " Design, characterization, and the performance mechanism description of heterostructured semiconductor materials in photocatalytic systems and dye-sensitized photovoltaic cells", planned to be conducted at AMU Faculty of Chemistry, under the supervision of: dr hab. Maciej Zalas, prof. AMU;
- research planning;
- synthesis of heterostructural materials for DSSC applications;
- preparation of the DSSCs working electrodes;
- modification of the heterostructured semiconducting layer surface;
- investigation of the structural (e.g. XRD, XPS), morphological (e.g. SEM, TEM), and composition (e.g. XRF, ICP-OES, EDS) stability of heterostructured materials in the electrode preparation conditions;
- devices assembling and testing of DSSC utilizing previously prepared electrodes (e.g. IV, EIS, IPCE, CV).

### III) Requirments and qualifications

The competition is open to individuals who meet the requirements specified in Article 113 of the Law on Higher Education and Science of 20 July 2018 (Journal of Laws of 2024, item 1571 ; Polish: Dz. U. z 2024 poz. 1571 t.j.) and who meet the following requirements:

- PhD in chemical sciences/chemical engineering/materials engineering obtained not earlier than 7 years ago (this period may be extended by the duration of maternity and parental leaves or long-term incapacity to work due to illness),
- The project leader (dr hab. Maciej Zalas, prof. AMU) was not the supervisor or the auxiliary supervisor of the candidate's doctoral dissertation;
- Doctoral degree was obtained in an entity other than Adam Mickiewicz University, Poznań or the candidate completed a continuous and documented postdoctoral fellowship for at least 10 months in an entity other than the entity implementing this project and in a country other than the country of obtaining the doctoral degree;

#### **IV) Required languages**

- 1. Language: English**
- 2. Level: fluent**

#### **V) Required research, teaching or mixed experience**

1. Skills in inorganic synthesis, especially semiconducting materials with photoactive properties;
2. experience in solvothermal and hydrothermal, template-assisted or/and template-free methods, metal or/and nonmetal doping;
3. experience in photocatalysis or/and photovoltaics processes investigation;
4. good skills in the solid-state materials bulk and surface characterization techniques, e.g., XRD, XPS, SEM, TEM, EDS or/and quantitative analytical methods, e.g., XRF, ICP-OES, etc.;
5. knowledge in physical chemistry, especially electrochemistry, photochemistry, and photophysics;
6. ability to work individually and in a team;
7. fluent computer skills, MS Office, charting programs (e.g., Origin, Sigma Plot, etc.), and chemical formula creation programs (e.g., ChemOffice).

#### **VI) Benefits**

- ✓ an atmosphere of respect and cooperation
- ✓ supporting employees with disabilities
- ✓ flexible working hours
- ✓ funding for language learning
- ✓ co-financing of training and courses
- ✓ additional days off for education
- ✓ life insurance
- ✓ pension plan
- ✓ savings and investment fund
- ✓ preferential loans
- ✓ additional social benefits
- ✓ leisure-time funding
- ✓ subsidizing children's vacations
- ✓ "13th" salary

#### **VII) Eligibility criteria**

1. Scientific achievements.
2. Experience in project implementation.
3. Experience in the projects research subject.
4. Result of the recruitment interview.

## **VIII) The selection process**

1. Competition committee begins working no later than 14 days after the deadline for document submission.
2. Formal evaluation of submitted proposals.
3. Call to provide additional or missing documents, if necessary.
4. Selection of candidates for the interview stage.
5. Interviews for candidates who meet the formal requirements.
6. The competition committee chair announces the results and informs the candidates. This information will include justification with a reference to candidates' strengths and weaknesses. Submitted documents will be sent back to candidates.

## **IX) Prospects for professional development**

- Conducting research and gaining experience in modern research topics.
- Conducting research in the abroad laboratories.
- Publishing research results in prestigious scientific journals.
- Participation in international scientific conferences.

### **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](mailto: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 Warsaw.
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.