 

# **ADAM MICKIEWICZ UNIVERSITY, POZNAN**

**ANNOUNCES**

**A COMPETITION**

**for the position of post-doc**

**at the Faculty of Chemistry**

**in the project “Nanoparticles showing persistent up-conversion luminescence – synthesis and characterization of properties”**

**number: UMO-2021/43/B/ST5/00046**

**Basic information**

1. **Research discipline (research field):** Chemical sciences, chemical engineering (chemistry, engineering)
2. **Number of work hours per week including a task-based work schedule (if applicable):** Full-time (40 hours per week)
3. **Type of an employment contract and expected duration of employment, i.e.:** fixed-term contract (2 years)
4. **Anticipated job starting date:** 01 September 2023
5. **Workplace location:** Faculty of Chemistry Adam Mickiewicz University in Poznań

Uniwersytetu Poznańskiego 8, 61-614 Poznań, Poland

1. **Monthly salary:** around 7,700 PLN gross / 6,200 PLN net
2. **Application deadline and process:**

Application deadline May 15, 2023, Please send application to tgrzyb@amu.edu.pl, subject: "Post-doc application – persistent luminescence."

1. **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 2022, item 574 i.e. as amended; Polish: Dziennik Ustaw 2022 poz. 574 z póżn. zmianami);
* Information on the Applicant’s research, teaching and organizational achievements,
* Copy of PhD thesis,
* 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.";*

**Conditions of the competition determined by the competition** **committee**

1. **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)~~

(definition of qualification level and professional experience according to Euraxess guidelines https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors)

1. **Job Offer description**

The planned research concerns nanoparticles showing luminescence under irradiation with infrared light. What is unusual, these nanoparticles will show a persistent (long-lasting) luminescence, i.e., one that can last up to several hours after exposure. Available materials with long-lasting luminescence must be irradiated with ultraviolet or visible light. The nanoparticles resulting from the project are essential for developing imaging techniques for cancer diagnosis and treatment. The modified nanoparticles can be irradiated before being placed in the living organism, which eliminates the need for irradiation during the investigation and analysis. An important feature of the studied nanoparticles is the possibility of "recharging" in the organism, as infrared radiation is transmitted through the tissue.

Post-doc tasks include:

1. Synthesis of luminescent nanoparticles.

2. Functionalization of nanoparticles and colloids production.

3. Equipment development and measurements of physicochemical properties of nanomaterials.

4. Measurements of temperature-dependent luminescence of materials

5. Elaboration of research results and preparation of scientific publications.

1. **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 2022, item 574, i.e. Article 113 as amended) and who meet the following requirements:

1. Ph.D. degree in chemistry, physics or medical sciences or the planned defense of a doctorate no later than August 15, 2023.

2. At least four publications in journals from JCR.

1. **Required languages**
   * + 1. **Language: English**
       2. **Level: (fluent)**

1. **Required research, teaching or mixed experience**

1. Experience in the synthesis of nanomaterials or inorganic materials.

2. Experience in the spectroscopic characterization of luminescent materials.

3. Previous experience with persistent luminescence is welcome.

1. **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

1. **Eligibility criteria**
2. Scientific experience based on CV
3. Number and type of scientific publications
4. Interview (only for candidates pre-selected on criteria 1 and 2)
5. **The selection process**
6. Competition committee begins working no later than 14 days after the deadline for submission of documents.
7. Formal evaluation of submitted proposals.
8. Call to provide additional or missing documents if necessary.
9. Selection of candidates for the interview stage.
10. Interviews for candidates who meet the formal requirements.
11. The committee has the right to request external reviews of candidates' work or to ask candidates to conduct teaching assignments with an opportunity for student evaluation.
12. The chair of the competition committee 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.
13. **Prospects for professional development**

The scientist will have the opportunity to develop skills in the synthesis and study of luminescent nanoparticles. In addition, it will be possible to gain experience in the field of biological research.

**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 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.