



ADAM MICKIEWICZ UNIVERSITY, POZNAŃ
ANNOUNCES A COMPETITION
for the position of Student (civil law contract)
at the Faculty of Physics

GENERAL INFORMATION

1. Research discipline (research field): **Experimental/Theoretical Physics.**
2. Project: **PETITE (EIG CONCERT-JAPAN/9/91/PETITE/2023)**
3. Number of work hours per week: **18h/week.**
4. Type of employment: **civil law contract**
5. Anticipated job starting date: **01.12.2024.**
6. Duration: **12 months**
7. Salary: **2250 PLN (brutto)/month.**
8. Electronic submission to bartlomiej.graczykowski@amu.edu.pl.
9. Application deadline: **15.11.2024.**
10. Supervisor: **Prof. UAM dr. hab. Bartłomiej Graczykowski.**
11. Required documents:
 - *Curriculum Vitae* (max. 2 pages A4);
 - Diplomas or certificates issued by colleges and universities.
 - Student status certificate.

DESCRIPTION

Title: Mechanical properties of twisted van der Waals 2D materials

Keywords: van der Waals materials, 2D materials, mechanical properties, acoustic waves/phonons, Brillouin light scattering, nanotechnology

Description: The project's ambition is to engineer mechanical properties and phonon transport in 2D materials using the relative layer orientation (twist). With precise layer arrangement, we will study the anisotropy between the in-plane and cross-plane directions, but emphasis will be put on the in-plane anisotropy enabled by moiré fringes.

The project will be carried out in the framework of the EU-Japan (EIG CONCERT-JAPAN/9/91/PETITE/2023) grant PETITE in collaboration with ICN2 Barcelona (Spain) and the University of Tokyo (Japan).

Expected skills and competencies: **Solid state physics, optics, laser physics, mechanics, and** fundamental knowledge of MATLAB (or Mathematica). Excellent knowledge of English (at least C1 level)

Tasks: Laboratory work utilizing laser spectroscopy, sample preparation, data fitting, and analysis under the supervision of the PI. Periodic (monthly) reporting. Possible secondments in Barcelona and Tokyo.

Eligibility criteria

1. Matching the candidate's scientific profile with the advertisement.
4. Grades on the diploma/certificate.

References:

1. V. Babacic, D. Saleta Reig, S. Varghese, T. Vasileiadis, E. Coy, K.-J. Tielrooij, B. Graczykowski, *Advanced Materials* 2021, 33, 2008614.
2. B. Graczykowski, M. Sledzinska, M. Placidi, D. Saleta Reig, M. Kasprzak, F. Alzina, C. M. Sotomayor Torres, *Nano Lett.* 2017, 17, 7647.

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.