



ADAM MICKIEWICZ UNIVERSITY, POZNAN  
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](mailto: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.

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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).
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