

Competition for the position of assistant professor (post-doc)  
at the Institute of Theoretical Physics, Wrocław University of Science and Technology

**Reference number: I02W11D11/38/2025**

**Field of exact and natural sciences**

**Scientific discipline: Physical Sciences**

**Type of contract: employment contract**

**Type of offer: contest**

**Job description:**

Post-doc position in the project *Quantum acousto-optics of hybrid nanosystems*, NCN Maestro, 2023/50/A/ST3/00511, carried out at the Institute of Theoretical Physics, Wrocław University of Science and Technology.

**Tasks:**

- Modeling the properties of light emitted by acoustically modulated solid-state quantum emitters, as well as acoustic and optoacoustic control of the charge and spin states of quantum emitters. Participation in research planning, contributing to model construction, performing calculations and simulations, interpreting results, and writing papers. Collaboration with PhD students and undergraduates involved in the project.

**Requirements:**

- Doctoral degree in physical sciences obtained no earlier than 1st January 2020. This period may be extended by a time of long-term (in excess of 90 days) documented sick leaves or physiotherapy leaves granted on account of being unfit to work. In addition, the period may be extended by the number of months of a childcare leave granted pursuant to the Labour Code and in the case of women, by 18 months for every child born or adopted, whichever manner of accounting for career breaks is preferable;
- Research achievements in the field of theoretical physics documented by publications in peer-reviewed scientific journals.
- Good knowledge of English.

**Required documents:**

- Application letter with the reference number of the competition and e-mail address of the candidate.
- Description of competences and scientific achievements (in the form of a single PDF file) containing:
  - A brief description of the candidate's academic career so far (degrees obtained, employment history).
  - Description of no more than two most important scientific achievements, indicating the candidate's role. Each achievement can be supported by no more than three publications in peer-reviewed scientific journals. A full list of publications can only be provided via an ORCID ID in the application letter.
  - Information about scientific experience gained at various institutions.
  - Information about obtained research grants and scholarships awarded through a competition.

- o Information about activities for the scientific community (including reviewing activities, participation in the organization of scientific events etc.).
- o Information on activities aimed at broader research/innovation users and audiences and towards wider societal benefit (e.g. outreach activities).
- A scan of the PhD diploma or certificate of obtaining the degree.
- A signed declaration of having read the information regarding the processing of personal data (see: <https://wppt.pwr.edu.pl/pracownicy/nabory>).

**We offer:**

- Employment at a prestigious university,
- An opportunity to carry out research work as part of an interesting scientific project,
- Work in a scientific environment at the highest level,
- Support for further professional advancement, including obtaining academic degrees and titles,
- Attractive motivational programs, including financial bonuses for scientific effectiveness,
- Social support; availability of attractive medical care packages dedicated to WUST employees.

**Application deadline:** 24th October 2025.

**Planned starting date:** 1st February 2026.

**Additional information:**

Applications must be submitted only electronically to the e-mail address [Pawel.Machnikowski@pwr.edu.pl](mailto:Pawel.Machnikowski@pwr.edu.pl).

All correspondence related to the competition will be sent electronically to the email address provided in the application.

Eligibility subject to restrictions according to the NCN regulations on awarding funding as of 11th May 2023.

For additional information, please contact the project manager, Prof. Paweł Machnikowski: [Pawel.Machnikowski@pwr.edu.pl](mailto:Pawel.Machnikowski@pwr.edu.pl).

Application evaluation procedure:

Stage I: assessment of compliance with formal requirements.

Stage II: Academic achievement assessment: 80% for scientific achievements and experience; 20% for contributions to the scientific community and society. Selected candidates will be considered for interviews.

Stage III: Interview.

The final decision will be made based on the results of stages II and III.

Please indicate the competition reference number in the subject of the message.. Applications from people sending their documents without indicating a specific reference number or sent after the deadline for submission of offers will not be considered.

The university reserves the right to cancel the competition without providing reasons.