

**Faculty of Fundamental Problems of Technology,  
Wrocław University of Science and Technology**  
announces a job offer for a position of  
**assistant (research, half time)**  
**at the Department of Experimental Physics**

**Reference no: K63W11D11/12/2025**

**Field: engineering and technical sciences**

**Discipline: physical sciences**

**Specialty: physics and optical spectroscopy of nanostructures**

**Type of contract: contract of employment for 30 months in project “Quantum dot coupling engineering (and dynamic spin decoupling/deep nuclei cooling): 2-dimensional cluster state generation for quantum information processing (QCEED)” funded by European Union within Horizon Europe - EIC Pathfinder programme**

**Position Profile: R1**

**Job description:**

The expectation is that the candidate will conduct scientific research in a timely manner (according to the tasks in the project following timetable from the project proposal), present the results during internal project meetings, on international conferences and publish them. The scientific scope includes optical characterization of single and double quantum dots in nanowires in InP-based material system by means of, among others, (micro)photoluminescence (excitation), time-resolved spectroscopy and photon correlation measurements in the near infrared spectral range at low cryogenic temperatures.

**Tasks:**

- Conducting and directing scientific research in accordance to tasks in the research project,
- Performing optical spectroscopy measurements on structures provided by technological partners in the project,
- Data analysis and preparing internal reports,
- Preparing input for external reports, conference presentations and scientific publications,
- Continuous professional development.

**Requirements:**

- Master degree in physical sciences.
- Knowledge of solid state physics, in particular physics of low dimensional structures, quantum mechanics and quantum optics.
- Experience in optical spectroscopy at low temperatures and near infrared range.
- Experience in data analysis in OriginLab or equivalent scientific software.
- Experience in presenting scientific results (international conferences, publications).
- Good knowledge of spoken and written English.

**Required documents (electronic version):**

1. Application for entering the competition addressed to the Rector, containing the candidate's e-mail address and the competition reference number,  
<https://wppt.pwr.edu.pl/pracownicy/konkursy>
2. Questionnaire for the person applying for employment,  
<https://wppt.pwr.edu.pl/pracownicy/konkursy>
3. A copy of the document confirming obtaining the professional title;
4. Self-report including information about achievements in research activities and organizational activities:
  - education, previous employment, scientific degrees and professional titles obtained,

- a concise description of the most significant scientific achievements, taking into account the competition requirements,
  - list of realized research grants with an indication of the candidate's role,
  - list of scholarships and awards granted via an open competition,
  - information on academic and professional internships of at least 1 month.
5. Statement on having read the information regarding the processing of personal data, <https://wppt.pwr.edu.pl/pracownicy/konkursy>,
  6. Statement on meeting the requirements set out in Art. 113 of the Act of July 20, 2018. Law on Higher Education and Science, <https://wppt.pwr.edu.pl/pracownicy/konkursy>,

### **We offer:**

- Employment at a prestigious University,
- Working in a world-class scientific environment and laboratory complex,
- Opportunities to implement research plans, support in obtaining research grants, facilitation of scientific internships,
- The opportunity for continuous skill improvement,
- Support for further career advancement, including obtaining academic degrees and titles
- Attractive incentive programs, including financial bonuses for scientific efficiency, significant teaching discounts for scientists carrying out research projects,
- Social support; availability of attractive medical care packages dedicated to Wrocław University of Science and Technology employees.

### **Dates:**

Deadline for submitting applications: 23 April 2025 r.

Approximate date of decision: 9 May 2025r.

Planned date of employment: 1 June 2025 r.

### **Additional information:**

The competition is open to candidates who meet the conditions set forth in the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws 2022, item 574, as amended), in the Statute of Wrocław University of Science and Technology and in the Code of Ethics Employees of the Wrocław University of Science and Technology.

Before establishing an employment relationship with the person who wins the competition, Wrocław University of Science and Technology will conduct a verification in accordance with the provisions of the Act of May 13, 2016, on preventing threats related to sexual crimes and protecting minors. The data necessary for this verification (PESEL number, or in its absence, maiden name, father's name, mother's name, and date of birth) will be obtained solely from the selected individual and should not be provided during the application stage.

Submission of documents only by email to: [wppt.konkursy@pwr.edu.pl](mailto:wppt.konkursy@pwr.edu.pl).

All correspondence related to the competition will be sent electronically to the e-mail address provided in the application.

Templates of documents/statements to be submitted along with the application can be found at: <https://wppt.pwr.edu.pl/pracownicy/konkursy>

In the title of the message, please indicate the reference number of the competition. Applications without indicating a specific reference number and those sent after the deadline for submission of offers will not be considered.

For any information about the competition please contact the HR assistant at: [wppt.konkursy@pwr.edu.pl](mailto:wppt.konkursy@pwr.edu.pl).

Applications of candidates will be considered by the competition committee.

Stage I. Evaluation of candidates on the base of submitted documentation in the categories:

- scientific activities and achievements, implemented projects, awards, scientific mobility (weight 70%),
- organizational activities (weight 30%).

Stage II. An interview including the presentation of previous scientific activity and planned scientific research. Candidates selected based on the first stage of evaluation are invited to the interview.

The final grade in each category is determined by the committee taking into account the interview process.

The University stipulates that the competition may be unresolved without giving reasons.

Recruitments and competitions conducted by Wrocław University of Science and Technology are open, carried out in accordance with clear and transparent rules based on clear and unambiguous criteria of substantive evaluation, taking into account a diverse professional career. Wrocław University of Science and Technology conducts recruitment procedures in accordance with the guidelines of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers and the Open, Transparent and Merit-based Recruitment Policy (OTM-R) at Wrocław University of Science and Technology.

<https://pwr.edu.pl/en/university/european-human-resources-strategy-for-researchers/otm-r>

Recruitments and competitions conducted by Wrocław University of Technology and Science are conducted taking into account the policy of equal opportunities in accordance with the “Equality plan for Wrocław University of Science and Technology for the period 2022–2024”

<https://rowna.pwr.edu.pl/en/>

Applicants for the position of academic teacher have the opportunity to file an objection to the decision of the Committee within 7 days from the date of receiving information from the HR assistant about the lack of recommendation for employment. The objection should be submitted to the Dean of the Faculty of Fundamental Problems of Technology of Wrocław University of Technology in written paper form.