



Post-doc, research position, Institute of Physics Faculty of Technical Physics, Informatics and Applied Mathematics

Lodz University of Technology is one of the finest universities of technology in Poland. Its tradition and experience in training professionals and conducting research date back more than 80 years. It is an attractive partner for business. It operates with the largest national and international corporations. It conducts research of a European standard, develops new technologies and creates innovation in collaboration with the leading research centres all over the world. One of the pillars of Lodz University of Technology management is equal treatment of staff regardless of their gender, age, race or other demographic and social characteristics. In 2016, TUL was the first technical university in Poland to receive the HR EXCELLENCE IN RESEARCH award certifying that the University adheres to the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

1. The requirements to be met by the candidate (detailed description of the knowledge, qualifications, skills, and professional experience):

- PhD degree in physics, specialization: computational physics, solid-state physics, optics, or PhD degree in mathematics, or PhD degree in information and communication technology
- good knowledge of optics, solid-state physics, technology of semiconductor lasers,
- good programming skills (C/C++/python)
- published papers from recent years including current publishing activity
- fluency in English.

Formal requirements (based on Załącznik nr 2 do Regulaminu przyznawania środków na realizację zadań finansowanych przez Narodowe Centrum Nauki w zakresie projektów badawczych, określonego uchwałą Rady NCN nr 50/2023 z dnia 11 maja 2023 r.) for the applicant:

• **An obligatory formal eligibility criterion for admission to the competition is obtaining a doctoral degree in the year of employment in the project or within the 7 years preceding 1 January of the year of employment in the project** (in the case of persons who have obtained more than one doctoral degree, the reference date is the date of obtaining the first degree). This period may be extended by the time spent during this period on documented long-term sick leave (over 90 days) or rehabilitation benefits due to incapacity for work. Additionally, this period may be extended by the number of months spent on leave related to childcare and child-rearing granted under the rules set out in the Labour Code, and, in the case of women intending to apply to the competition, by 18 months for each child born or adopted, if this method of indicating career breaks is more advantageous.

The period specified above may not be shortened or further extended by the competition organizer;

- The project leader was not the supervisor or auxiliary supervisor of the applicants doctoral dissertation;
- The candidate obtained a doctoral degree at an institution other than the one at which employment in this position is planned, or completed a continuous, documented postdoctoral fellowship of at least 10 months at an institution other than the project-implementing institution and in a country other than the country in which the doctoral degree was obtained;
- During the period of receiving this remuneration, the candidate will not receive any other remuneration from funds awarded as part of direct costs from research projects financed under NCN calls;
- During the period of receiving this remuneration, the candidate will not be employed under an employment contract with another employer, including an employer based outside the territory of Poland;
- During the period of receiving this remuneration, the candidate will not receive retirement benefits from the social security system

2. Specification of the terms and conditions of employment and authority associated with the position:

- full time position
- employment for: 18 months
- expected time of employment: 01.04.2026
- salary starting from PLN 7,400 gross (the actual salary amount will be determined after an interview with the candidate, taking into account experience, length of service, and qualifications)



3. Description of the expected responsibilities and duties:

Research tasks in the NCN SONATA BIS-13 research project titled: *Półprzewodnikowe lasery o emisji powierzchniowej ze zwierciadłami w postaci podfalowych siatek dyfrakcyjnych MHCG* (Semiconductor surface-emitting lasers with MHCG subwavelength diffraction grating mirrors):

- Optimization by means of computer simulations of MHCG mirrors,
- Finding the best strategies for efficient heat flow in the MHCG VCSELs.
- Computer simulations of various versions of MHCG VCSELs in different material systems,
- Designing the precise implantation parameters by using Stopping and Range of Ions in Matter simulation (SRIM) software

4. List of Required Documents:

- 1) application for employment to the Rector of Lodz University of Technology;
- 2) CV including: brief description of the recent research work, list of publications, list of scientific achievements;
- 3) personal questionnaire for a person applying for employment at Lodz University of Technology, as provided in Annex no. 1.1 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
- 4) Data Privacy Statement as provided in Annex no. 1.2 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
- 5) Consent to the processing of personal data, as provided in Annex no. 1.3 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
- 6) copies of diplomas;
- 7) other documents proving the qualifications.
- 8) declaration of representing the scientific discipline of physical sciences and the Staff Declaration Zarządzenie Rektora_5_2022_20_01_2022 regarding employment from the project (to be signed if applicant is approved).

5. Submission Details: Applications should be submitted electronically to the following email address: **katarzyna.deptula@p.lodz.pl** Deadline: **11.03.2026 r.** All required documents must be submitted in **PDF format** (the total size of the attachments should not exceed 10 MB). The applicant might be expected to attend an interview in Institute of Physics or online

6. Contact Information:

For further details regarding the recruitment process, please contact the project leader:
Marcin Gębski, email: marcin.gebski@p.lodz.pl

7. Expected Date of Selection Announcement: 12.03.2026 r.

8. Additional information:

We have an internal procedure for reporting legal violations and taking follow-up actions at Lodz University of Technology.



PERSONAL INFORMATION FORM FOR APPLICANTS FOR EMPLOYMENT AT ŁODZ UNIVERSITY OF TECHNOLOGY

1. First name(s) and family name
2. Date of birth
3. Contact details
4. Education (where required for specific duties or jobs)

(name of school and graduation date)

.....
.....
(occupation, specialisation, degree, professional title, academic title)

5. Professional qualifications (where required for specific duties or jobs)

.....
.....
(courses, postgraduate education, other forms of further development of knowledge and skills)

6. Employment history (where required for specific duties or jobs)

.....
.....
(employment periods and jobs held at previous employers')

7. Additional personal information, where the right or the duty to disclose it exists under specific regulations

.....
.....
(place and date)

.....
.....
(signature of the applicant)

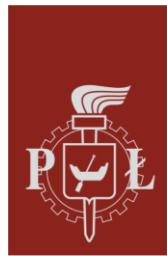


Data Privacy Statement for job candidates

1. The administrator of your data processed as part of the recruitment process is Lodz University of Technology (address: 90-924 Lodz, 116 Żeromskiego St., phone: +48 42 631 29 29), represented by the Rector as the employer.
2. At the Lodz University of Technology you can contact the Data Protection Officer at: iod@adm.p.lodz.pl phone: +48 42 631 20 39.
3. Lodz University of Technology will process your personal data to the extent indicated in the labor legislation for the purpose of the current recruitment procedure (Article 6(1)(b) of the GDPR), while other data, including contact data, on the basis of consent (Article 6(1)(a) of the GDPR), which may be revoked at any time.
4. Lodz University of Technology will process your personal data, also in subsequent recruitment of employees, if you give your consent (Article 6(1)(a) GDPR), which may be revoked at any time.
5. If the documents include data referred to in Article 9(1) of the GDPR, your consent to their processing will be required (Article 9(2)(a) of the GDPR), which may be revoked at any time. (Article 22 of the Labor Code and §1 of the Regulation of the Minister of Family, Labor and Social Policy of December 10, 2018 on employee records).
6. Personal data will be disclosed to persons acting under the authority of the controller and having access to personal data, processing them only on the instructions of the controller, unless required by European Union or Member State law.
7. Your data collected in the current recruitment process will be stored until the end of the recruitment process. In the case of your consent to the use of personal data for future recruitment, your data will be used until the end of the calendar year in which the recruitment process for which your application was submitted ended.
8. You have the right to:
 - a) the right to access your data and to receive a copy of it;
 - b) the right to rectify (correct) your personal data;
 - c) the right to restrict the processing of your personal data;
 - d) the right to delete your personal data;
 - e) the right to lodge a complaint with the President of the Personal Data Protection Office (to the address of the Personal Data Protection Office: 2 Stawki St., 00 - 193 Warsaw)

Information on data requirement: Your submitting personal data to the extent of Article 221 of the Labor Code is necessary to participate in the recruitment procedure. Your provision of other data is voluntary.

.....
(date and signature of the candidate)



Candidate's consent to personal data processing under Article 7 GDPR

I consent to the processing of my personal data for the purpose and to the extent necessary to carry out the recruitment for the job in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation), publ. Official Journal of the EU L No. 119, p. 1. Consent is voluntary. Failure to give consent entails the inability to participate in the recruitment process. Consent may be withdrawn at any time, but without affecting the legality of the processing of personal data carried out on the basis of consent before its withdrawal.

I hereby confirm that I was informed of the minimum base salary stated in the aforementioned job advertisement.

.....
(date and signature of the candidate)