



Assistant Professor (F/M), Department of Material Technologies and Production Systems Lodz University of Technology

Lodz University of Technology is one of the leading technical universities in Poland, with more than 80 years of tradition in educating engineering staff and conducting high-quality scientific research. The University cooperates with major industrial partners in Poland and abroad, develops modern technologies, and participates in international research networks. As the first technical university in Poland, Lodz University of Technology was awarded the **HR Excellence in Research** logo, confirming its commitment to the principles of the *European Charter for Researchers* and the *Code of Conduct for the Recruitment of Researchers*. The University ensures equal treatment of all employees regardless of gender, age, race, or other demographic or social characteristics.

1. Position

- Assistant Professor — research-and-teaching position.
- Department of Material Technologies and Production Systems.
- Faculty of Mechanical Engineering.
- Discipline: Mechanical Engineering.

2. Requirements

- Doctoral degree in mechanical engineering or a related discipline.
- Documented scientific achievements including publications in reputable journals.
- Teaching experience at the academic level.
- Proficiency in using Autodesk Inventor and AutoCAD.
- Proficiency in using MS Office: Word, Excel and PowerPoint.
- Experience in conducting numerical research experiments.
- Practical knowledge of process engineering, Power BI and Lean manufacturing.
- Knowledge of fault prediction and machine maintenance in industrial settings (TPM) is desirable.
- Fluency in Polish.
- English proficiency at minimum B2 level.
- Readiness for research in areas developed by the Department.
- Participation in organizational duties within the Department and Faculty.

3. Working Conditions

- Full-time employment
- Fixed-term contract
- Salary range: PLN 6000–8500 gross per month
- Start date to be agreed with the selected candidate
- Workplace: Lodz University of Technology, Faculty of Mechanical Engineering

4. Scope of Duties

- Scientific research in materials technology, manufacturing processes, and production systems
- Publication of results in recognized scientific journals



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- Participation in research projects at national and international levels
- Teaching responsibilities including lectures, classes, and supervision of student theses
- Preparation of teaching materials
- Organizational activities within the Department and Faculty

5. Leading Research Areas of the Department

- Advanced materials engineering including analysis and modification of engineering materials
- Modern manufacturing processes including machining, forming, joining, and hybrid technologies
- Production system design with emphasis on automation, robotics, and digitalization
- Industry 4.0 solutions integrating monitoring, modelling, and optimization of processes
- Material behaviour analysis under operational conditions
- Cooperation with industry enabling practical implementation of research results

6. Required Documents

- 1) Application for employment to the Rector of Lodz University of Technology;
- 2) CV;
- 3) Personal questionnaire for a person applying for employment at the Lodz University of Technology, as provided in Appendix No. 1.1 to the " OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT ";
- 4) Data Privacy Statement as provided in Appendix No. 1.2 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT";
- 5) Consent to processing of personal data, as provided in Annex No. 1.3 to the " OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT ";
- 6) True copies/copies of diplomas;
- 7) Other documents proving qualifications.

7. Submission of Documents

- Electronic submission to the Department's e-mail address: agata.golnik@p.lodz.pl until 2 October 2026
- In-person submission to the Department office: Department of Material Technologies and Production Systems, Stefanowskiego 1/15 Str., 90-537 Łódź, building A22, 2nd floor, room 233 until 2 October 2026
- For traditional mail, mark the envelope: "*Application for the position of Assistant Professor*"
- Recruitment decision date will be communicated to candidates

8. Contact person and postal/e-mail address for submitting documents and scans

Mrs **Agata Golnik** e-mail: agata.golnik@p.lodz.pl

Department of Materials Technology and Production Systems Lodz University of Technology
Stefanowskiego 1/15, 90-537 Łódź Building A22, 2nd floor, room 233

9. Expected date of recruitment decision

Lodz University of Technology
90-924 Lodz, 116 Żeromskiego Street
phone (+48 42) 631 29 29, www.p.lodz.pl





October 2026

10. Profile of the Department's Activities, Department of Material Technologies and Production Systems

The Department of Material Technologies and Production Systems conducts scientific and teaching activities in the field of mechanical engineering, with particular emphasis on modern materials technologies, manufacturing processes, and production systems. The Department focuses on research related to the properties of engineering materials, their modification, and their application in advanced engineering solutions. An important part of its work is the development and improvement of manufacturing technologies, which include both classical machining methods and modern techniques based on automation, robotics, and digital tools for process design and monitoring.

The Department carries out research projects in cooperation with industry and scientific institutions in Poland and abroad, enabling the practical implementation of research results and the development of innovative technological solutions. It actively participates in initiatives related to Industry 4.0, production digitalization, process optimization, and the integration of manufacturing systems. In its scientific activities, particular emphasis is placed on the development of materials with enhanced functional properties, the analysis of their behaviour under operational conditions, and the design of technological processes that ensure high production quality and efficiency.

In the area of teaching, the Department offers courses in fields related to mechanical engineering, materials technology, and production engineering. Education covers both the fundamentals of manufacturing technologies and advanced topics related to process design, material selection, property analysis, and the integration of production systems. The Department provides students with access to modern laboratory infrastructure and opportunities to participate in research projects and collaborate with industry.

The Department's activities combine basic and applied research, technological development, and cooperation with the industrial environment, enabling the creation of innovative solutions and supporting the development of modern branches of industry. It is an important centre of expertise in materials technology and production systems, and its work contributes to the advancement of mechanical engineering at both national and international levels.

Description of the Leading Research Areas Conducted in the Department of Material Technologies and Production Systems

The Department of Material Technologies and Production Systems conducts scientific research in the field of mechanical engineering, focusing on advanced materials technologies and modern manufacturing processes. The Department develops methods for designing and modifying engineering materials, analysing their physical, mechanical, and operational properties, which enables the creation of solutions with enhanced durability and performance. Particular attention is devoted to research on materials used in modern industrial sectors, including machinery, automotive, and energy industries.

The Department also carries out intensive research on manufacturing processes, covering both classical machining technologies and modern methods based on automation, robotics, and digital process supervision. These research activities include modelling and optimization of technological processes, analysis of material flows, and the design of production systems characterized by high flexibility and efficiency. The



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Department develops solutions aligned with the Industry 4.0 concept, integrating digital tools, quality monitoring systems, and intelligent production control methods.

Another leading research direction involves analysing the behaviour of materials and structural components under real operating conditions, including assessments of durability, wear resistance, and damage mechanisms. The results of these studies are used to design new manufacturing technologies and to develop diagnostic and monitoring methods for evaluating the technical condition of machine and equipment components.

11. Traditional mail submission note

If documents are sent by traditional mail, the envelope should be marked with the note: "application for the position of the candidate for employment".

12. Additional information

Lodz University of Technology has an internal procedure for reporting violations of law and undertaking follow-up actions.



PERSONAL INFORMATION FORM FOR APPLICANTS FOR EMPLOYMENT AT LODZ 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)



Information clause for employment candidates

In accordance with Article 13(1) and (2) of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals 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) OJ L 119, p. please be informed that:

1. The controller of the data is Lodz University of Technology with its seat in Łódź, at. ul. Żeromskiego 116, Tax Identification Number (NIP): 727-002-18-95, tel. +48 42 631 29 29 represented by the Rector.
2. The Data Protection Officer has been appointed at TUL (contact details: e-mail: iod@adm.p.lodz.pl, phone number: 42 631 20 39).
3. Your personal data to the extent indicated in the employment legislation will be processed for the purpose of the current recruitment procedure (Art. 6(1)(b) GDPR), while other data, including contact data, will be processed on the basis of consent (Art. 6(1)(a) GDPR), which can be revoked at any time.
4. Lodz University of Technology will process your personal data, also in subsequent staff recruitment, if you give your consent (Art. 6(1)(a) GDPR), which can be revoked at any time.
5. If the documents contain the 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 can be revoked at any time. Labour law provisions: Article 22 of the Polish Labour Code and §1 of the Regulation of the Minister of Family, Labour and Social Policy of 10 December 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 controller's instructions, unless required by European Union or Member State law.
7. Data retention period: Your data collected in the current recruitment process will be stored until the end of the recruitment process. If you have given your consent to the use of your 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 has ended.
8. You are the holder of the following entitlements:
 - 1) the right to access your data and to receive a copy of it
 - 2) the right to rectify (amend) your personal data;
 - 3) the right to restrict the processing of your personal data;
 - 4) the right to erasure of your personal data;
 - 5) the right to lodge a complaint with the President of the Office for Personal Data Protection (to the address of the Office for Personal Data Protection, ul. Stawki 2, 00 - 193 Warsaw)
9. Information on the requirement to provide data: Your provision of personal data in the scope resulting from Article 22¹ of the Polish Labour Code is necessary to participate in the recruitment procedure. Your provision of other data is voluntary.

.....
(signature of candidate for employment)



Annex 1.3

to the 'OTM-R POLICY - OPEN TRANSPARENT SUBSTANTIVE RECRUITMENT PROCESS'"

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 would like to inform you that I have been/I haven't been* presented with the salary range for the position mentioned in the advertisement.

.....
(date and signature of applicant)

* delete as appropriate