



The Institute of Materials Science is seeking an Assistant Professor in the research and teaching staff group.

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 75 years. It is an attractive partner for business. It cooperates 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. Requirements for the candidate:

- Possession of a Ph.D. degree in engineering in the discipline of materials science.
- Significant scientific achievements in materials science, particularly in biomedical materials, biomimetic materials, and the use of natural raw materials for material modification. Scientific achievements confirmed by authorship or co-authorship of at least 2 publications in each topic within the last 5 years.
- Hirsch index of no less than 4 according to the Scopus database.
- Active participation in organizations developing scientific, research, and teaching activities in materials science (e.g., Polish Society of Materials Science, Polish Biomaterials Association) for at least one year.
- Participation in at least two projects aimed at creating and using scientific research results in practice (e.g., PO IR projects, Horizon) within the last 5 years.
- Experience and skills in international projects: participation in at least 3 projects in different project consortia (project consortium consisting of partners from at least 3 different countries) within the last 3 years.
- Documented knowledge and skills in project management - confirmed by certified training and experience in managing projects and project tasks.
- Experience in teaching at a higher education institution, especially in biomedical engineering, biological material assessment methods, biomimetic materials, and design techniques.
- Experience in teaching at a higher education institution - conducting classes in English.
- Knowledge of modern teaching methods (at least three different ones) such as DT, PBL, CBL, CT, etc., confirmed by certificates and significant achievements in the field.
- International recognition in teaching - participation and/or leading international teaching projects.
- Proficiency in English to the extent of conducting classes.
- Confirmed knowledge of at least one additional foreign language (besides native language and English).
- Proficiency in Polish, both spoken and written, due to the necessity of conducting classes and organizational and administrative work.

2. Working conditions:

The job offer concerns the position of an assistant professor in the research and teaching staff group at the Institute of Materials Science in the Mechanical Department of TUL.



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- We plan to hire for a full-time position on a permanent basis. The job is expected to start in October 2024. Hybrid work is possible.

We offer:

- Opportunity for scientific career development,
- International travel related to research in European scientific centers,
- Participation in national and international conferences,
- Publishing scientific articles in high-impact factor journals.

3. Description of the expected scope of tasks and responsibilities:

- Conducting and documenting research activities and participating in disseminating the results of these activities,
- Preparing proposals for domestic and foreign projects,
- Conducting practical teaching classes (laboratories),
- Participation in organizational work for the benefit of the University and the unit.

To fulfill the above duties, the following are essential:

- Motivation and very good organization of work,
- Independence in action while being ready to work in a team,
- Ability to convey knowledge and build relationships with students in the teaching process,
- Ability to present results and conduct ongoing reporting on the tasks performed,
- Openness to new challenges and changes,
- High personal culture and interpersonal skills,
- Accuracy in performing assigned tasks and the ability to adapt to procedures.

4. List of required documents:

1. Job application addressed to the Rector of TUL;
2. Personal questionnaire for a job applicant at Lodz University of Technology, annex 1.1 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT PROCESS";
3. Data protection clause, annex 1.2 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT PROCESS";
4. Consent for data processing, annex 1.3 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT PROCESS";
5. Copies of diplomas;
6. Other documents confirming qualifications.

5. Place, form, and deadline for submitting documents:

- Application documents will be accepted until July 15 at the Secretariat of the Institute of Materials Science, Stefanowskiego 1/15, 90-530 Lodz (building A18, floor IV, room 444) and via email at inzynieria.materialowa@info.p.lodz.pl with the subject "job application."
- In the case of sending documents by traditional mail, the envelope should be labeled "job application - sensitive data" and sent to the correspondence address: Lodz University of Technology, Institute of Materials Science, Zeromskiego 116, 90-924 Lodz.



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- Candidates will be able to collect their documents related to the competition for 30 days after the end of the competition.

6. Contact person and postal and email address for sending documents and scans:

- For matters related to the competition, contact the Secretariat of the Institute of Materials Science at tel. 42 631-30-30, email inzynieria.materialowa@info.p.lodz.pl.

7. Expected competition resolution date: July 19, 2024.

The Institute of Materials Science consists of 7 departments:

- **Department of Numerical Methods in Materials Science:** Scientific and research activities are related to the use of advanced mathematical-physical, numerical, statistical methods, data mining, and the design and construction of simulation and database systems.
- **Department of Surface Engineering and Heat Treatment:** The scientific activities mainly cover research in the field of heat treatment of metal alloys, including thermo-chemical treatment. The second area of scientific activity is nanotechnology.
- **Department of Advanced Materials and Composites:** The main research area concerns the application of lightweight, functional gradient materials based on aluminum, magnesium, and titanium alloys. Research is also conducted in the field of producing lightweight composites reinforced with glass and carbon fibers with the addition of 2D materials, including graphene. The department develops composite materials with quasi-2D properties for reversible hydrogen storage, filtration materials, sensors, and electrodes for lithium-ion batteries.
- **Department of Biomedical Engineering and Functional Materials:** The scientific profile includes many areas of materials science, with a particular emphasis on surface engineering and biomaterials. The broadest scope of research is focused on technologies for modifying the surfaces of metallic and polymer materials.
- **Department of Biophysics:** Research is conducted on the interaction of artificial implant surfaces with human body fluids using biosensor techniques - SPR, detection of macromolecules and cells by non-standard methods, cell adhesion under flow conditions, cell biophysics and the blood coagulation system, the interaction of body fluids with implant surfaces, research on mechanisms related to cell adhesion to biomaterial surfaces, characterization of processes related to biofilm formation.
- **Department of Coatings, Polymers, and Non-Metallic Materials Engineering:** Research topics cover several areas. The first concerns thin film technologies related to protective, optical, and decorative coatings produced by methods known in the scientific literature under the acronyms CVD and PVD.
- **Department of Nanomaterials Engineering:** The main research areas include studying mechanical and tribological properties of materials at the micro- and nanoscale, characterization of materials using SPM techniques, including the study of frictional, electrical, and magnetic properties, and the production and study of conversion coatings such as nanotubular and porous TiO₂ coatings.



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

.....
(signature of the applicant)



Data Privacy Statement for job candidates

Pursuant to 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 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, Official Journal of the EU L 119/1), hereinafter referred to as "GDPR", we inform you as follows:

- 1) Lodz University of Technology with the registered office in Lodz is the Controller of your personal data;
- 2) We have appointed a Data Protection Officer to supervise the compliance of personal data processing, who can be contacted in matters concerning the protection of your personal data at the following e-mail address: iod@adm.p.lodz.pl; telephone number: 42 631 2039; or in writing to the address of our registered office: Lodz University of Technology, Żeromskiego 116, 90-924 Łódź;
- 3) As the controller, we will process your data for the purpose of the recruitment process for the position indicated, based on your consent (Article 6(1)(a) GDPR);
- 4) You have the right to withdraw your consent to the processing of your personal data at any time, but such withdrawal shall not affect the lawfulness of the processing effected on the basis of your consent prior to its withdrawal;
- 5) You have the right to lodge an objection against the processing of the data as set out above at any time. We will cease to process your data for these purposes unless we can demonstrate that there are compelling legitimate grounds for us to do so which override your interests, rights, and freedoms, or that your data will be required for the possible establishment, assertion, or defense of claims;
- 6) Your personal data provided in the CV, personal information form for the applicant for employment, and copies of documents supporting your professional experience, education, additional credentials and qualifications will be processed for the period in which claims related to the recruitment process may arise, i.e. for 6 months following the conclusion of the recruitment process. For individuals who have given their consent to the processing of personal data for the purposes of future recruitment, for a period of 12 months following the conclusion of the recruitment process during which the consent has been given;
- 7) Only individuals authorized by the Controller to process your data in the performance of their duties will have access to your data;
- 8) Your personal data will not undergo automated processing and will not be subject to profiling;
- 9) Under GDPR, you shall further have:
 - a) the right to access your data and to receive copies thereof,
 - b) the right to rectification (amendment) of your data,
 - c) the right to erasure/to be forgotten, restriction of data processing,
 - d) the right to data portability,
 - e) right to file a complaint to the supervisory authority - President of the Personal Data Protection Office, Stawki 2, 00-193 Warsaw.

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



**Consent of the candidate to the processing of personal data
(pursuant to Article 7 GDPR)**

I consent to the processing of my personal data by Lodz University of Technology, the Controller of the data included in the following documents that I have submitted:

.....
.....

for the purpose of recruitment/employment*.

I hereby declare that I have been informed of the right to withdraw my consent at any time, effective as of the date of submission of the withdrawal of consent.

The Controller (or an authorised representative) has also informed me that the withdrawal of consent does not affect the lawfulness of the processing performed on the basis of the said consent prior to its withdrawal.

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

* delete as appropriate