



## **Assistant professor in the group of research and teaching staff, Institute of Materials Science and Engineering**

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. The requirements for the candidate (description of the exact knowledge, qualifications, competencies and professional experience):

- Completion of higher education and a doctoral degree in the field of materials science
- Documented significant scientific achievements in the discipline of materials engineering especially in the field of carbon materials (thin carbon coatings and graphene), plasma techniques used for the sake of modification of the surface of biomaterials, materials and constructions used for the sake of hydrogen storage. Scientific achievements confirmed by the authorship or co-authorship of at least one patent and at least one publication in each of the following topics: biomedical engineering, carbon materials, hydrogen storage in the last 5 years.
- Hirsch index according to the Scopus database at a level not lower than 5.
- Active participation in organizations developing scientific, research and teaching activities in the field of materials engineering (e.g. Society for biomaterials, Polish Materials Society, etc.) for at least a year
- Participation in at least two projects aimed at creating, developing and using scientific research results in practice (e.g. Research and Development projects of NCBiR) in the last 5 years.
- Experience and skills in the realization of international projects: participation in at least 3 projects in different project consortia (project consortium composed of partners from at least 3 different countries) in the last 3 years.
- Documented knowledge and skills in project management - confirmed by a document of an international organization (e.g. PMI-CAPM, IPMA-D, Prince2 Foundation, ITIL, etc.)
- Experience in didactics at a university level, especially in the field of: science of materials and biomaterials, biomedical engineering, project based methods.
- Experience in teaching at a university level - 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/or significant achievements in the field
- International recognition in the field of education – coordination of at least one international educational project in the last 5 years
- Experience in teaching or didactic or research staff in the last 5 years (conducting at least 50 hours of classes/workshops for groups of at least 5 people)



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- Knowledge of English to the extent necessary to conduct classes.
- Fluent knowledge of Polish in speech and writing due to the need to conduct classes and organizational and administrative work at the university

### 2. Definition of working conditions and entitlements related to the position.

- The job offer concerns the position of assistant professor in a group of research and teaching employees at the Institute of Materials Science and Engineering at the Faculty of Mechanical Engineering of the Lodz University of Technology.

We are planning full-time employment for an indefinite period. We anticipate the start of work in October 2023. Possible hybrid work.

We offer:

- Opportunity to develop a scientific career,
- trips abroad related to conducting research in European research centres,
- participation in national and international conferences,
- publishing scientific articles in journals with a high impact factor.

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

- conducting and documenting research activities and participating in the dissemination of the results of this activity,
- conducting didactic classes of a practical nature (laboratories),
- conducting scientific research in the discipline of Material Engineering
- preparation of scientific publications
- preparing proposals for domestic and foreign projects
- conducting didactic classes in Polish
- organizational work for the benefit of the University, Faculty and Department

For the implementation of the above scope of duties is necessary:

- motivation and very good organization of work,
- Ability to work independently while being ready to work in a team
- the ability to transfer knowledge and build relationships with students in the didactic process,
- Ability to present results and conduct ongoing reporting from the works carried out,
- 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) Application for employment to the JM Rector of the Technical University of Lodz;
- 2) Personal questionnaire for a person applying for employment at the Technical University of Lodz, constituting Attachment No. 1.1 to "POLICY OTM-R - OPEN TRANSPARENT MERITORIAL RECRUITMENT PROCESS";
- 3) Self-reference describing previous scientific, teaching and organizational activities;
- 4) A list of publications with scoring according to the current list of journals provided on the website of the Ministry of Science and Higher Education;
- 5) Confirmed copy of a master's degree in Material Engineering



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- 6) A certified copy of the act of awarding a doctoral degree;
- 7) Personal data protection clause, attached as Appendix No. 1.2 to the "OTM-R POLICY - OPEN MERITORIAL RECRUITMENT PROCESS";
- 8) Consent to the processing of personal data, constituting Annex No. 1.3 to the "OTM-R POLICY - OPEN TRANSPARENT MERITORIAL RECRUITMENT PROCESS";
- 9) Candidate's statement that the LAC will be the primary place of work;
- 10) Description of scientific achievements;
- 11) Other documents confirming qualifications.

5. Place, form and deadline for submission of documents (with indication of the possibility of their collection).

Documents should be submitted:

- to the secretariat of the Department Institute of Materials Science of the Technical University of Łódź, 93-590 Łódź, Al. Stefanowskiego 1/15, building A18 4 floor, room no. 444, or sent by e-mail to [inzynieria.materialowa@info.p.lodz.pl](mailto:inzynieria.materialowa@info.p.lodz.pl) with a note in the title "job candidate's offer"
- In the case of sending documents by traditional means, the envelope should be marked "job candidate's offer - sensitive data" and sent to the correspondence address: Lodz University of Technology, Institute of Material Engineering, ul. Żeromskiego 116, 90-924 Łódź.
- Candidates will be able to collect the documents related to the competition submitted by them for a period of 30 days from the date of the end of the competition.

**- by 28 August 2023.**

Contact person and postal and electronic address to which documents and scans can be sent to: Institute of Materials Science and Engineering, 90-924 Lodz, 116 Żeromskiego Street, [inzynieria.materialowa@info.p.lodz.pl](mailto:inzynieria.materialowa@info.p.lodz.pl)

7. Anticipated date of the outcome of the competition: 31 August

8. The Institute of Materials Science and Engineering consists of 7 departments:

- Division of Numerical Methods in Materials Engineering: the scientific and research activity of the Division is related to the use of advanced mathematical and physical, numerical and statistical methods, data mining methods as well as the design and construction of simulation and database systems.

- Department of Surface Engineering and Heat Treatment: the research activity of the Department covers mainly research in the field of heat treatment of metal alloys, including thermo-chemical treatment. The second area of scientific activity carried out in the department is the area of nanotechnology.

- Department of Advanced Materials and Composites: the main area of scientific activity of the Department concerns the use of light, functional gradient materials based on aluminum, magnesium and titanium alloys, works are being developed in the area of production of light composites reinforced with glass and carbon fibers with the addition of 2D materials, including graphene. The Department creates composite materials with quasi2D properties as reversible hydrogen storage materials, as filtering materials, sensors or lithium-ion battery electrodes.

Department of Biomedical Engineering and Functional Materials: the profile of scientific activity covers many areas in the field of materials engineering, with particular emphasis on



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surface engineering and biomaterials. The widest range of research is focused on technologies for surface modification of metallic and polymeric materials.

- Department of Biophysics: which deals with research on the contact of artificial implant surfaces with human body fluids using the SPR biosensor technique, detection of macromolecules and cells using non-standard methods, cell adhesion under flow conditions, biophysics of cells and the blood coagulation system, interaction of body fluids with implant surfaces, study of mechanisms related to the adhesion of cells to the surface of biomaterials, characteristics of processes related to the formation of biofilms.

Department of Coating Engineering, Polymers and Non-Metallic Materials: the subject of research conducted in the Department covers several areas. The first of them concerns the technology of thin layers related to the research of 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 areas of scientific interest of the Department are the study of mechanical and tribological properties of materials in the micro- and nanoscale, the characterization of materials using SPM techniques, including the study of friction, electrical and magnetic properties, and the production and testing of conversion coatings such as nanotubular and porous coatings TiO<sub>2</sub>.



**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.....  
(provided by the applicant)
  4. Education (where required for specific duties or jobs) .....  
(name of school and graduation date)  
.....  
.....  
(occupation, specialization, 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

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:

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](mailto: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)



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Annex no. 1.3  
to The OTM-R POLICY – OPEN TRANSPARENT MERIT-BASED RECRUITMENT

**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 authorized 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.