

Assistant professor in the group of research staff, Department of Mechanical Engineering, Informatics and Chemistry of Polymer Materials, Lodz University of Technology

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

From a candidate for the assistant professor in the group of research staff position, we do expect:

- A PhD degree in materials engineering.
- The high grade of the doctoral dissertation (dissertation with distinction).
- A Candidate is required to possess the knowledge of problems from the range of polymer materials, ionizing radiation dosimetry, radiation chemistry, nanotechnology, chemical treatment of textiles (including finishing, functionalization and conservation of textiles).
- Knowledge of English language to enable scientific work (publications, participation in conferences).
- Knowledge of the Polish language is welcome.
- Documented scientific achievements in the field of polymer materials (with particular emphasis on hydrogel materials), ionizing radiation dosimetry and chemical treatment of textiles (a list of publications in international journals with impact factor (IF) listed by SCImago Journal Rank, participation in national and international conferences, projects, awards).
- At least two publications in the journal with impact factor (IF) in which the candidate is the first and corresponding author.
- Cooperation with foreign research institutes documented by co-authorship in scientific publications.
- At least two-month scientific internship in a foreign research institute.
- Required experience in polymer materials (especially hydrogels) preparation and in UV-Vis spectrophotometry, nuclear magnetic resonance, Raman spectroscopy, static light scattering, dynamic light scattering and differential scanning calorimetry techniques application.
- Experience in organizational work in the university structures, including the promotion and organization of scientific conferences (documentation required in at least one activity).
- Knowledge of issues in the field of medical physics (radiotherapy, irradiation and imaging techniques) will be an asset.
- Experience in editorial work in scientific journals from the ISI Master Journal List (at least 100 MSHE points).

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

The job offer applies to a position in the Department of Mechanical Engineering, Informatics and Chemistry of Polymer Materials at the Faculty of Material Technology and Textile Design of Lodz University of Technology. Full-time employment. The work is expected to be started on June 2022. It is expected that Lodz University of Technology will be the candidate's primary place of work at the time of employment.

3. Description of the expected responsibilities and duties.

A person employed as an assistant professor in the group of the research staff will be required to conduct research in the declared area, present them, publish the results, and conduct, ongoing reporting in this regard, resulting from the university regulations.

The employee's duties also include organizational current works and activities related to the operations of the University and resulting from direct decisions of the superior.

4. List of the required documents:

- 1) Application for employment to the Rector of Lodz University of Technology;
- 2) Personal questionnaire for a person applying for employment at Lodz University of Technology, as provided in Annex no. 1.1;
- 3) Data Privacy Statement as provided in Annex no. 1.2;
- 4) Consent to the processing of personal data, as provided in Annex no. 1.3;
- 5) True copies/copies of diplomas;
- 6) CV with scientific achievements;
- 7) Other documents confirming the possessed qualifications.

5. The place, manner, and deadline for submitting the documents (as well as information concerning their return).

Applications will be accepted until 30/04/2022 in electronic or paper version in the office of the Faculty of Material Technology and Textile Design at the Lodz University of Technology, 116 Żeromskiego Street, 90-924 Lodz or to the e-mail address: w4w4d@adm.p.lodz.pl

If documents are to be sent by post, please include the words 'Job Application' on the envelope.

6. Contact person details as well as postal and electronic address to which documents and their scans can be sent.

Lidia Smereka

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E-mail address: w4w4d@adm.p.lodz.pl

7. The expected date of the announcement of the decision – May, 2022.

8. Description of the Department's profile and the leading research conducted in the Department:

The Department of Mechanical Engineering, Informatics and Chemistry of Polymer Materials at the Faculty of Material Technology and Textile Design of Lodz University of Technology has been operating since 2019 and was established as a result of the merger of the Department of Man-Made Fibres and the Department of Technical Mechanics and Computer Science, existing from the 1940s. The Department conducts research in the field of mechanics and technical informatics, cellulose composites, biomaterials and biotextiles, artificial and composite fibres, special textile products, textile finishing, as well as 1D, 2D and 3D dosimetry, including textile dosimeters and gel dosimeters for use in radiotherapy.

A detailed description of the Department's profile and conducted research can be found on the Department's website: <https://katedrak41.wixsite.com/home>