Politechnika Łódzka

Assistant (F/M), in the group of research-teaching staff, Department of Strength of Materials and Structures

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. Expectations:

- higher education - master of science degree (preferably the fields of Mechanics and Machine Design, Automation and Robotics, eventually Physics or Mathematics),
- skills of spoken and written English and Polish (B2 level),
- knowledge of engineering software: FEM and CAD,
- ability to solve basic problems of mechanics (statics) and strength of materials,
- basic knowledge of the programming language,
- engineering competencies,
- the ability to transfer knowledge and build relationships with students in the didactic process,
- very good organization, independence and strong motivation to work,
- high interpersonal skills allowing for effective teamwork,
- readiness for teaching duties, including conducting tutorials and laboratory classes,
- readiness to implement team projects,
- scientific publications are welcome.

2. Employment Conditions

- full-time employment;
- expected starting date: December 2026;
- gross monthly salary: PLN 6,500 – 7,000, depending on experience, employment history, and qualifications.
- possibility of raising qualifications and training as well as the development of a scientific career,
- possibility to undertake activities in interesting didactic and scientific projects as well as in works for the socio-economic environment,
- trips abroad as part of European programs, e.g. Erasmus +, or international conferences
- favourable social conditions,
- location in the city centre with easy access and parking for staff,

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- the work in a good atmosphere.

It is expected that Lodz University of Technology will be the primary place of work at the time of employment. Full-time employment.

3. Responsibilities:

- Participation in research work carried out at the Department, including experimental work and numerical tests in the field of broadly understood strength of materials, especially the behaviour of thin-walled structures, their stability, load-carrying capacity and failure, structures made of isotropic or orthotropic materials e.g., composite materials (FRP, FML laminates).
- Conducting classes in the strength of materials, technical mechanics, finite element method for the first cycle of studies in Polish or English.

4. **About the Department of Strength of Materials**

The staff of the Department conduct research and classes. The department achievements are well-known and recognized by other Scientists conducting research in area of stability of thin-walled structures.

We develop mathematical models, conduct numerical simulations and experimental tests of thin-walled structural elements made of steel materials or laminates, including hybrid ones. We investigate thin-walled structural elements loaded statically or dynamically, mechanically and thermo-mechanically, considering their stability (including interaction of various buckling modes), post-buckling equilibrium paths, load-carrying capacity and phases of failure (including delamination and its propagation in the case laminates). We analyse the fixation of mandibular bone fractures in terms of strength by conducting numerical simulations using the results of experimental studies on the structure of the mandibular bones of other research teams.

This activity is complemented by scientific and technical works in the field of stress and deformation analysis of structural elements of machines and devices carried out in cooperation and for the needs of industry.

The main areas of research activity are:

- development of mathematical models, numerical simulations and experimental verification of thin-walled structural elements made of isotropic and composite materials (FRP, FML or FGM laminates),
- analysis of the failure mechanisms and energy absorption in thin-walled elements subjected to impact,
- experimental and numerical tests in the field of fracture mechanics for laminates,
- numerical simulations and experimental studies of biomechanical elements with the main focus on the stress state and deformations in bone systems and implants (e.g. mandible, teeth, implants and bone connecting elements).

5. 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 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
3) Data Privacy Statement as provided in Annex no. 1.2 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
4) Consent to the processing of personal data, as provided in Annex no. 1.3 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
5) copy of certificate of degree of Master of Science,
6) abstract including scientific, teaching and organizational activities,

7) list of publications in accordance with current list of periodicals given by Ministry of Science and Higher Education.

6. Application Procedure

All documents should be sent by December the 4th to the following address:

Katedra Wytrzymałości Materiałów i Konstrukcji, Wydział Mechaniczny, Politechnika Łódzka,

ul. Stefanowskiego 1/15, 90-537 Łódź,

and to e-mail: w1k12@adm.p.lodz.pl

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

The date of receipt by the Department will be considered the official submission date.

The expected date of the announcement of the decision: December 2026

7. Additional Information

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

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Annex no. 1.1
to The OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT

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) .....

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(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)

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Annex 1.2
to the 'OTM-R POLICY - OPEN TRANSPARENT SUBSTANTIVE RECRUITMENT PROCESS'.

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 22^1 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)

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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