



**Assistant professor in the group of researchers and teaching staff,  
Department of Automation, Biomechanics and Mechatronics**

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**

- at least a PhD degree in mechanical engineering;
- fluent knowledge of the Polish language in speech and writing - enabling teaching, organizational and administrative work;
- fluent knowledge of English - enabling communication and writing scientific articles;
- experience in conducting didactic classes at a university in the field of technical mechanics, mechatronics and automation;
- experience confirmed by publications in scientific works related to mathematical modeling of mechanical and mechatronic systems using a magnetic field and the study of their non-linear dynamics, including vibrations of discrete systems with one and many degrees of freedom, chaos and control;
- knowledge of issues in the field of:
  - physical and mathematical modeling of mechanical and mechatronic systems;
  - on the theory of differential equations in mechanics;
  - programming in Wolfram Mathematica, Matlab, Scilab;
  - conduct experimental research in the field of dynamics of mechanical systems;
  - data processing, developing results and writing scientific publications.

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

- Full-time employment contract for a fixed period with the possibility of extension;
- Expected date of employment: 01/11/2023.

**3. Description of the expected responsibilities and duties.**

The tasks envisaged within the scope of duties include:

- conducting research works, in particular, related to the priority areas of the entity's activity;
- dissemination and documentation of research results through regular publications in renowned scientific journals and conference presentations;
- teaching classes (workshops, laboratories, projects) and supervising preparation of Bachelor and Master theses of the full-time and part-time students in the field of technical mechanics, mechatronics and automation, conducted mainly in Polish-language;
- organizational work for the Department, Faculty and the University;
- involvement in the development and promotion of the Department of Automation, Biomechanics and Mechatronics, including participation in the preparation and implementation of scientific research projects.

**4. List of the required documents:**

1. application for employment to the Rector of Lodz University of Technology;
2. CV with contact details, including previous scientific achievements, as well as:
  - scientific experience gained in Poland and/or abroad,



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- participation in research projects,
  - publications in scientific publishing houses/journals,
  - the most important (max. 5) awards resulting from scientific research, scientific workshops/ trainings.
3. 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;
  4. Data Privacy Statement as provided in Annex no. 1.2 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
  5. Consent to the 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 the qualifications.

### 5. The place, manner, and deadline for submitting the documents;

Documents should be sent electronically to the address [w1k11@adm.p.lodz.pl](mailto:w1k11@adm.p.lodz.pl) by **October 1, 2023**;

All required documents/attachments should be sent in the form of PDF files (the total size of the attached files should not exceed 10 MB). For easier identification of applications, please enter "K11\_2023\_adiunkt1" in the subject of the message.

Selected Candidates will be invited for an interview. Information regarding a possible interview will be sent to applicants by e-mail.

### 6. Contact person and postal and e-mail addresses to which documents or scans thereof may be forwarded

Additional information on the competition is available from the Secretariat of the Department of Automation, Biomechanics and Mechatronics - [w1k11@adm.p.lodz.pl](mailto:w1k11@adm.p.lodz.pl).

### 7. The expected date of the announcement of the decision 09.10.2023

### 8. Department of Automation, Biomechanics and Mechatronics

The Department of Automatics, Biomechanics and Mechatronics (formerly the Department of Automatics and Biomechanics) is a unit of the Faculty of Mechanical Engineering of the Lodz University of Technology, established by the Rector of the Lodz University of Technology at the request of the Council of the Faculty of Mechanical Engineering in 1998.

Currently, the leading direction of research at the Department, under which we assume the continuation and improvement of our own skills, is multidisciplinary modeling of mechatronic and bio-mechatronic systems. Research in this area requires collaboration to develop models that take into account the dynamic interactions between the various components of such systems, accurately predict their behavior or optimize their performance. The use of multidisciplinary modeling and identification techniques allows for a comprehensive analysis of the behavior of dynamic systems, as well as helps in the development of control algorithms to optimize their performance, which can be used in research on electromagnetic field-coupled oscillator systems, friction-induced oscillators, bio-inspired robot research walking.

A new research direction of the Department's development is the development and application of machine learning techniques to study complex systems. The research planned in this area will include the development of new algorithms and models for the analysis of data from various sources, such as measurement tracks, image processing and biological objects, which can be used to improve mathematical models or analyze the results of biomechanical tests. The development of machine learning techniques and their applications in various fields of science developed at the Department will be a key innovative factor driving our research in the coming years.



**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)

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.....  
(name of school and graduation date)

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.....  
(occupation, specialization, degree, professional title, academic title)

5. Professional qualifications (where required for specific duties or jobs)

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.....  
(courses, postgraduate education, other forms of further development of knowledge and skills)

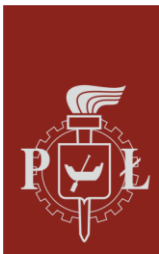
6. Employment history (where required for specific duties or jobs)

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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

.....  
.....  
(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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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.