

Dean  
**of Faculty of Mechanical Engineering**  
VSB - Technical University of Ostrava  
announces a selection procedure for a post of  
**Excellent researcher IAL (M)**  
**for Department of Robotics**  
for project **REFRESH - Research Excellence For REgion Sustainability and High-tech  
Industries (CZ.10.03.01/00/22\_003/0000048)**

The position is suitable for both women and men.

**Required expertise:**

Excellence with outstanding scientific results in the field on an international scale with a high contribution to the research area of Multibody system dynamics, Real-time simulation, modeling, Non-linear FEM, Implementation of dynamics model into digital twins of real system, Unconventional Single loop mechanisms, Optimization of the trajectory of the robotic arm, Optimizing of the kinematic structure of the robotic arm.

**Activity description:**

- Responsible for the implementation of the research programs „Robotic and Mechatronic Systems“ in a live laboratory (Laboratory of robotic and mechatronic systems in the I4.0 concept, Laboratory of mechatronic systems and devices), transferring experience to other members of the research team.
- Conducts research and manages own research team or the work of other researchers (senior researcher, junior researcher, and others). The results are published in impact journals Q1 (Q2).
- Seeks opportunities for collaboration with other partner departments.
- Participates in the preparation of other projects from national and international sources.

**Full time equivalent:**

0,5

**Type of job contract:**

fixed-term employment contract with the possibility of extension

**Expected start of employment:**

1.6.2024 or as agreed

**We require:**

- Foreign/Excellence/Key Researcher with outstanding scientific results in the field on an international scale with a high contribution to the research of Multibody system dynamics, Real-time simulation, modeling, Non-linear FEM, Implementation of dynamics model into digital twins of real system, Unconventional Single loop mechanisms, Optimization of the trajectory of the robotic arm, Optimizing of the kinematic structure of the robotic arm.
- Excellent publication activity, H-index min. 20, min. 70 publications in high-impact journals or verifiable 1,500 citations.
- Ability to work independently, actively participate in R&D projects, experience in managing international teams, demonstrable involvement in solving international projects, long-term international cooperation.
- Prerequisites for further scientific work (ability to work independently and to publish outputs in high-impact journals).
- Active knowledge of the English language.

**We offer:**

- work in a promising organization,
- salary evaluation according to the candidate's experience,
- modern laboratory and classroom facilities,
- opportunity to participate in excellent research,

- possibility of further education,
- 6 weeks of holidays,
- flexible working hours,
- university kindergarten,
- company catering in the canteen,
- MultiSport card,
- other employee benefits according to the employer's offer.

Your personal data will be processed to the extent necessary for the implementation of the selection procedure in accordance with EU Regulation 2016/679.

<https://www.vsb.cz/export/sites/vsb/en/.content/files/Informace-pro-uchazece-o-zamestnani-AJ.pdf>

E-mail the curriculum vitae focused on the course of professional practice, copies of documents on the acquired qualification, an overview of publishing activities and an overview of research projects to:

[dekanat.fs@vsb.cz](mailto:dekanat.fs@vsb.cz)

**till 30.4. 2024**

In the subject of the email, please state "Open Call for the position of the Excellent Researcher".



**Co-funded by  
the European Union**

Ministry of the Environment  
of the Czech Republic