

Director
of ENET Centre
VSB - Technical University of Ostrava
announces a selection procedure for a post of
Senior Researcher
in Smart Grid Laboratory

for project Research Excellence For Region Sustainability and High-tech Industries (CZ.10.03.01/00/22_003/0000048), research program 3 - Research in the field of digitization and transformation of the energy industry for the position Postdoktorand EL (D).

The position is suitable for both women and men.

CENET's core of research and development is energy transformation. CENET aims to convert feedstock raw materials, particularly waste and alternative fuels, into exploitable forms of energy and investigate their subsequent effective use. The key research areas of CENET include new technologies of transport and processing of energy feedstock materials, their effective energy transformation and modern solutions of the so-called microgrids of electric power and thermal energy production and accumulation. All the processing and transformation stages also include the technologies of cleaning the combustion products and waste in order to reduce or eliminate their harmful environmental impacts. The research outputs are user-configured (various types of input and output) and performance-scalable facilities for operation in both the energy sector and industry.

CENET has unique laboratory background and skilled researchers. The aim of the research is the development of the safe and reliable energy platform ensuring energy sustainability and raw material independence due to the effective utilisation of local renewable resources, energy accumulation with controlled energy flow and concepts of Smart Grids and Smart Cities. These activities are supported by advanced methods of artificial intelligence and technologies of Industry 4.0 in compliance with energy policy of both the country and the EU.

<https://ceet.vsb.cz/cenet/en/>

Required expertise:

- Electrical Engineering
- Renewable Energy Sources, Smart Grids, Energy Storage

Activity description:

- research and Development in Smart Grids Laboratory,
- analysis and Optimization of Renewable Energy Sources, Storage devices and E-Vehicles,
- Microgrid, Power Flow control,
- research and Development of control methods based on Artificial Intelligence,
- cooperation in scientific research projects

Full time equivalent: 1,0
Type of job contract: fixed-term employment contract with the possibility of extension
Expected start of employment: 01.09.2024

We require:

- university education Ph.D. degree - Electrical Engineering,
- active knowledge of the English language,
- ability to work independently, actively participate in R&D projects,
- prerequisites for further scientific work (ability to work independently and to publish outputs in high-impact journals),
- H-index min5,
- demonstrable involvement in basic/applied/contract research projects,
- an internship abroad for a total of 3 months.

We offer:

- work in a renowned university research team,
- 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 holidays,
- flexible working hours,
- university kindergarten,
- catering in the university canteen,
- MultiSport card,
- other employee benefits according to the employer's offer scheme.

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>

Please e-mail your curriculum vitae focused on the course of your professional practice, attach documents on the required qualification, an overview of your publishing activities according to the Web of Science and SCOPUS, and an overview of research projects to:

stanislava.kleckova@vsb.cz

till 20.7.2024

In the subject of the email, please state "Selection procedure - Electrical Engineering".



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