

Director  
of IT4Innovations National Supercomputing Center

VSB – Technical University of Ostrava  
announces a selection procedure for a post of

## **Innovation Technology Developer in the field of energy consumption optimization in HPC**

for Infrastructure research Laboratory

The position is suitable for both women and men

IT4Innovations National Supercomputing Center is a leading research, development, and innovation centre active in the fields of High-Performance Computing (HPC), Data Analytics (HPDA), Artificial Intelligence (AI), and Quantum Computing (QC) and their applications. We have strong international links and employ more than 200 scientific, technical, and administrative staff. At present, IT4Innovations is running two supercomputers: Karolina (15.7 PFlop/s, installed in the summer of 2021), Barbora (849 TFlop/s, installed in the autumn of 2019), and is a member of the consortium operating LUMI, one of Europe's most powerful supercomputers. IT4Innovations also operates the first Czech quantum computer named VLQ.

<https://www.it4i.cz/>

### **Activity description:**

- development of a Python application with a graphical interface,
- compilation of parallel applications and libraries from source code for HPC clusters,
- development of tools for efficient hardware usage,
- code development verification,
- hardware and application performance and efficiency evaluation.

**Full time equivalent:**

full-time employment

**Type of job contract:**

fixed-term employment

**Expected start of employment:**

1. 3. 2026 or as agreed

### **We require:**

- university education in IT or a related field, min. required degree Bc. at the time of recruitment,
- knowledge of application development in C, C++, and Python language,
- experience with Linux operating systems and work in bash,
- experience with application development using object-oriented programming,
- knowledge of parallel application development,
- ability and willingness to communicate technical information effectively to users,
- active knowledge of the English language.

### **Candidate advantage:**

- knowledge of git and CI/CD pipeline development,
- knowledge and understanding of HPC applications including their installation, configuration and execution,
- knowledge of auxiliary tools for compilation (EasyBuild, Spack.),
- experience with scientific computing applications.

**We offer:**

- work in a promising organization,
- salary evaluation according project conditions and candidate's experience,
- modern laboratory and classroom facilities,
- opportunity to participate in excellent research team,
- possibility of further education,
- 6 weeks of holidays,
- flexible working hours,
- university kindergarten,
- contribution option to pension plan,
- 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>

The application form substantiated with a letter of motivation and CV should be sent electronically to the email address: [petra.brozova@vsb.cz](mailto:petra.brozova@vsb.cz) until 15. 2. 2026.

In the subject of the email, please state "Open Call for the position of the Innovation Technology Developer in the field of energy consumption optimization in HPC".