

Director
of IT4Innovations National Supercomputing Center
VSB – Technical University of Ostrava
announces a selection procedure for a post of
Backend Developer
for Advanced Data Analysis and Simulations Lab

The position is suitable for both women and men.

We are seeking new colleagues to join our team and develop modern services and on-line platforms. 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. IT4Innovations is a member of the consortium which operates the largest European supercomputer LUMI. For more details, see www.it4i.eu.

Activity description:

We are extending our team with a new position to drive development of complex distributed services focused on easy access to AI models lifecycle management, compute workflows and distributed data management across supercomputers, Quantum and Cloud environments. This position is focused on backend developers eager to work with various data transfer protocols in Python using FastAPI, asyncio, HTTP/2, object storages and relational databases. Experience with design and operation of scalable and distributed services is an advantage.

The responsibilities of the candidates for this role are:

- development of software features in backend services for distributed data management,
- development of integrations with various data repository systems,
- communication with the development team and participation on feature design,
- collaboration with DevOps team on feature delivery.

Full time equivalent:	0,5 - 1,0
Type of job contract:	fixed-term employment
Expected start of employment:	1. 5. 2026 or as agreed

We require:

- proven experience with backend development in Python (FastAPI or similar),
- experience with REST API development,
- practical knowledge of relational databases, SQL and ORM frameworks,
- version control (Git) and software artifacts handling in containerised environment (Docker),
- good communication skills in the English language both spoken and written,
- bachelor's degree in related field.

Candidate advantage:

- experience with No-SQL databases,
- experience with OpenID based web authentication,
- general knowledge of computer networks (IP).

We offer:

- work in a friendly team with diverse skills fostering open and efficient communication,
- flexible working hours and home office,
- salary evaluation according project conditions and candidate's experience,
- modern tech stack (Python, .NET Core, React.js, OpenID, object storages),
- opportunity to work with cutting edge computing technologies
- possibility of further education,
- 6 weeks of holidays,
- university kindergarten,
- contribution option to pension plan,
- company catering in the canteen,
- MultiSport card,
- other employee benefits according to the employer's offer (shopping, R&R).

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 **until 12. 4. 2026**.

In the subject of the email, please state "Open Call for the position of the Backend developer for ADAS".