

# IT4Innovations national supercomputing center EDUCATIONAL AND TRAINING ACTIVITIES



IT4Innovations National Supercomputing Center  
VSB – Technical University of Ostrava  
Czech Republic  
[www.it4i.cz](http://www.it4i.cz)

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# About IT4Innovations

## the Czech National Competence Center in HPC

### HPC infrastructure

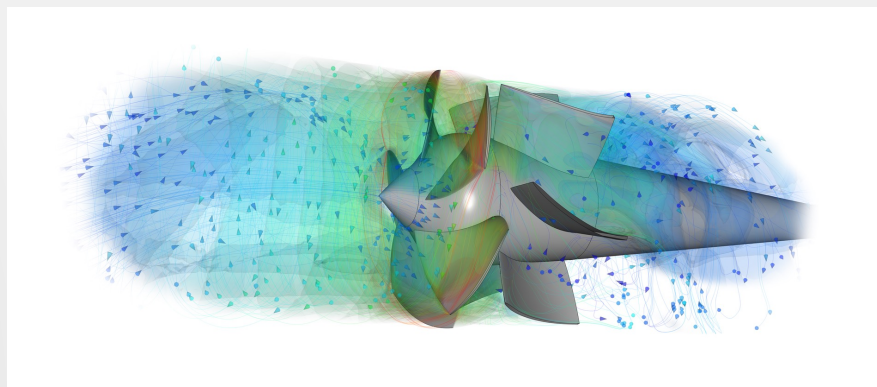
Karolina (15,7 PFlop/s)  
Barbora (849 Tflop/s)  
NVIDIA DGX-2 ( 2PFLOPS, for AI)



### Research

5 research laboratories

- Advanced Data Analysis and Simulations
- Parallel Algorithms Research
- Modelling for Nanotechnologies
- Big Data Analysis
- Infrastructure Research



### Education and Training

- university students  
MSc. and Ph.D.
- Users
- European HPC community



# Karolina supercomputer

- EuroHPC supercomputer
  - 65% financed by CR
  - 35% financed by EU (for users via EuroHPC calls)
- Total investment about 15mil. EUR
- Theoretical peak performance 15,7 PFlop/s
  - Universal CPU part : 3.8 Pflop/s
  - Accelerated GPU part: 11.6 Pflop/s ( #19 in Europe in TOP500)



**EuroHPC JU CALL FOR PROPOSALS FOR REGULAR ACCESS:**

**Cut-off dates: 1<sup>st</sup> July and 7<sup>th</sup> October**

**<https://eurohpc-ju.europa.eu/calls/eurohpc-ju-call-proposals-regular-access-mode>**

# What courses do we provide?



VSB TECHNICAL UNIVERSITY OF OSTRAVA | IT4INNOVATIONS NATIONAL SUPERCOMPUTING CENTER

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## Training events

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There are 2 events in the future. [Hide](#)

June 2022

08 Jun [\[ONLINE\] Fundamentals of Deep Learning for Multi-GPUs](#)

May 2022

12 May [\[ONLINE\] Data science with R and Python \(PTC course\)](#)

April 2022

28 Apr [\[ONLINE\] High Performance CFD using OpenFOAM](#)

19 Apr - 21 Apr [\[ONLINE\] SYCL Workshop](#)

05 Apr [\[ONLINE\] Introduction to Performance and Energy Efficiency Analysis \(PTC course\)](#)

Materials

There are no materials yet.

## Upcoming training events:

12 May **Data science with R and Python**

25 May **Introduction to Atos QLM**

8 June **Fundamentals of Deep Learning for Multi-GPUs**

14 June **Introduction to HPC**

**Registrations at: [events.it4i.cz](https://events.it4i.cz)**

# Thank you for your attention!

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