

# **SELF-EVALUATION REPORT FOR EVALUATION OF RESEARCH ORGANIZATIONS IN THE SEGMENT OF HIGHER EDUCATION INSTITUTIONS IN YEAR 2025**

**HIGHER EDUCATION INSTITUTION NAME:**

České vysoké učení technické v Praze – Czech Technical University in Prague

**COMPANY REGISTRATION NUMBER (CRN): 68407700**

**THE LIST OF EVALUATION UNITS IN MODULE 3:****ORGANIZATIONAL STRUCTURE OF THE HIGHER EDUCATION INSTITUTION**

Faculty of Civil Engineering  
Faculty of Mechanical Engineering  
Faculty of Electrical Engineering  
Faculty of Nuclear and Physical Engineering  
Faculty of Architecture  
Faculty of Transportation Sciences  
Faculty of Biomedical Engineering  
Faculty of Information Technology  
Klokner Institute  
MIAS School of Business  
University Centre for Energy Effective Buildings  
Czech Institute for Informatics, Robotics and Cybernetics  
Institute of Experimental and Applied Physics

**HIGHER EDUCATION INSTITUTION WEBSITE (HTML LINK):** <https://www.cvut.cz/en>

**THE HIGHER EDUCATION INSTITUTION CONTACT PERSON**

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Signature (Rector), stamp

### Introductory information about the evaluated higher education institution

The HEI briefly introduces itself. The organizational chart, the position of the HEI within the research, development and innovation system and the system of HEIs in the Czech Republic may be commented on, the mission and vision, the size of the HEI, the number and focus of the units evaluated will be briefly presented.

*Maximum 500 words.*

#### **Description:**

The Czech Technical University in Prague was founded in 1707 by a decree of Emperor Joseph I. Since then, it has always been a place of excellent technical education and research. It was CTU where Hans Christian Doppler formulated and published his work *Über das farbige Licht der Doppelsterne und einiger anderer Gestirne des Himmels*, where he postulated what we call today The Doppler principle.

There are 8 faculties and 5 institutes that enter this evaluation. Some of these faculties are good enough to supersede most of other (whole) Czech universities as to the number and quality of scientific results produced.

The CTU culture is based on a high degree of freedom together with responsibility. Through centuries, the faculties as well as the institutes have always had a high degree of autonomy, and they have given a high degree of autonomy to their departments and to their professors. In turn, the professors have worked hard to guide young colleagues towards excellence, to serve the community, and to obtain external funding to carry out their research. Three hundred plus years of history prove that this recipe has worked well within the Czech boundary conditions.

## SWOT ANALYSIS

<p><b>Strengths</b></p> <p>An established university with a long tradition, a wonderful location, and good standing. A major element in the Prague research cluster.</p> <p>Strong in basic and applied research, experienced researchers and Ph.D. supervisors.</p> <p>Broad coverage of technical disciplines.</p> <p>Strong ties to industry in many fields and departments.</p> <p>Established research teams capable of acquiring external funding (projects, contracts).</p> <p>Well-educated and skilled people able to respond to society's needs.</p> <p>A culture based on excellent individuals and subsidiarity.</p>	<p><b>Weaknesses</b></p> <p>Tradition slows down the changes.</p> <p>Continuing inefficient division of labour – professors carry out teaching and research under a high administrative load.</p> <p>Inability to increase salaries at a time when an extremely hungry labour market sucks in young scientists and leaders.</p> <p>Weak cooperation with industry in some fields and in some departments.</p> <p>Low motivation (on both sides) to transfer the effective habits of excellent teams to less-performing groups.</p>
<p><b>Opportunities</b></p> <p>Take the lead in newly opening fields (AI, quantum communication/computing, sustainable mobility, chip design).</p> <p>Take on new challenges to society. Attract more women to STEM fields.</p> <p>Cooperate internationally with excellent research units.</p> <p>Promote Prague as a scientific research hub.</p> <p>Revitalize nuclear energy in the Czech Republic and ensure safe operation of nuclear facilities.</p> <p>Seek solutions to society's needs and challenges, e.g., the quest for carbon-neutral energy sources, novel methods of medical diagnostics and treatment, and other opportunities when emerging.</p>	<p><b>Threats</b></p> <p>Low interest in STEM subjects and careers among young people, an unprecedentedly low level of knowledge delivered by secondary schools.</p> <p>Research driven by evaluation metrics.</p> <p>Unstable and often changing rules of R&amp;D funding in the Czech Republic.</p> <p>Decrease in the share of the Czech budget aimed at research.</p> <p>Political pressure aiming at 'excellent' research in each district of the country.</p>