



Why Choose TUKE?

- **Strategic Alignment:** TUKE's research directly supports EU priorities such as the Green Deal, Digital Europe, and Horizon Europe.
- **Proven Reliability:** Extensive participation in Horizon Europe and NextGenerationEU projects, supported by ISO-certified management and a 65% success rate in grant applications.
- **Recognized Expertise:** Strong track record in circular economy, renewable energy, AI, and cybersecurity.
- **Partnership Value:** Access to 100+ leading researchers, modern laboratories, pilot facilities, and a network of 95 international partnerships.

TUKE is a trusted partner to co-develop innovative, sustainable, and competitive solutions for Europe's future.

CONTACT

Primary Contact: Dr. Peter Mésároš, Rector
Email: peter.mesaros@tuke.sk
Phone: +421 55 602 1111
Funding & Tenders Portal: Registered with PIC 987654321

Overview

The Technical University of Košice (TUKE), established in 1952, is a leading public institution in Slovakia with a distinguished tradition in technical and natural sciences, rooted in **the Mining Academy of Banská Štiavnica (1762)**. Located in the resource-rich Košice region of Eastern Slovakia, TUKE drives innovation across nine faculties, addressing complex societal challenges through sustainable technologies, digitalization, and industrial development. TUKE's mission aligns with EU priorities, including the **Green Deal, Digital Europe, and Horizon Europe**, focusing on strategic autonomy and reducing dependency on third-country resources.



Unique Assets and Infrastructure

TUKE offers partners cutting-edge resources:

- **Modern Research Infrastructure:** Laboratories for materials analysis, electrochemistry, 3D printing, simulations, and smart technologies.
- **Pilot Facilities:** Testing grounds for scalable solutions in energy and manufacturing.
- **Proprietary Tools:** Software for industrial automation, AI-based decision support, and process optimization.

Core Skills and Team Expertise

TUKE's team of over 100 researchers brings diverse skills:

- **Technical Skills:** Circular economy, smart manufacturing, robotics, renewable energy systems, ICT, and cybersecurity.
- **Interdisciplinary Capabilities:** Integration of materials science, environmental impact assessment, and digital technologies.
- **Support Services:** Grant office with a 65% success rate, offering proposal writing, legal review, and impact strategy design.

Research Expertise and Alignment with EU Priorities

- **Circular Economy and Resource Recovery:** Innovations in battery recycling and critical raw materials (CRMs) processing.
- **Digital Transformation:** Expertise in smart manufacturing, robotics, and AI-driven solutions supports Digital Europe's Industry 4.0 goals.
- **Renewable Energy:** Research in hydrogen technologies, energy storage, and smart grids contributes to the EU's energy transition.
- **ICT and Cybersecurity:** Advances in AI, data analytics, and telecommunications enhance Europe's digital innovation landscape.



Collaboration Opportunities and Partner Benefits

- **Strategic Partnerships:** Open to universities, SMEs, and NGOs active in materials science, green technologies, and environmental policy.
- **Flexible Roles:** Proven capacity to coordinate sustainability and digital innovation projects, or to serve as a reliable work package leader in technical domains.
- **Mutual Value:** Access to TUKE's 95+ university partnerships, modern laboratories, pilot facilities, and policy influence through European networks such as EIT RawMaterials.
- **Talent Development:** Opportunities for internships, PhD programs, mentoring, and secondments, contributing to EU objectives on skills and workforce development.
- **Added Support:** Benefit from TUKE's grant office expertise, including proposal writing, legal review, and impact strategy design.



Key Achievements and Past EU-Funded Projects

- **Horizon Europe:** Participated in projects on rare earth elements and sustainable mining, including SUPREEMO for critical raw materials recovery, aligning with Green Deal objectives.
- **Recovery and Resilience Plan (NextGenerationEU):** Led development of a national supercomputer for high-performance computing in AI and quantum technologies (2024–2025); established a Cybersecurity Competence Centre for training and public administration security (2025–2026).
- **Other EU Initiatives:** Contributed to EIT RawMaterials and Interreg programs, with educational exchanges via Erasmus+ across 27 countries; historical involvement in FP5, FP6, and FP7 frameworks.

Compliance and Operational Readiness

TUKE is fully prepared for EU funding:

- **Processes:** ISO-certified systems for project management, legal, financial, and ethics compliance, validated through regular EU audits.
- **Support Infrastructure:** Agile teams for legal, ethics, and procurement, enabling rapid adaptations and quality control.
- **Reporting:** Dedicated staff and systems for Horizon Europe requirements, including GDPR and ethics assessments.