

Green Research in Environmental and Advanced Technologies- GREAT



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Ulysseus Innovation Hub Day
Connecting R&I for Digital Transformation
21 October 2025 | Technical University of Košice

Ulysseus Seed Funding Programme for Joint Research and Innovation Group (**Joint R&I Groups**) under Call Nr. 25/1.

Application No.: 251042

Research Group: Green Research in Environmental and Advanced Technologies

Type: Thematic Research Group focused on common research area,

Lead Applicant: Martina Laubertová **Contact:** martina.laubertova@tuke.sk



Green Research in Environmental and Advanced Technologies - GREAT applies an interdisciplinary approach to mineralogy, wastewater treatment processes, and engineering technology.

GREAT focuses on the **development of sustainable methods for processing and utilizing critical raw materials** (CRMs) for the European Union, such as rare earth elements (REEs), which are essential for green technologies.

The goal is to develop innovative, environmentally friendly strategies for the efficient extraction and recycling of REEs from secondary sources.

Key to this is the **collaboration between the academic sphere** and industrial partners for the exchange of knowledge and the practical application of our research. Our scientific objectives include identifying new sources of raw materials, new separation techniques in TRL4, optimizing resource extraction processes.



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Green Research in Environmental and Advanced Technologies – GREAT

Our research group, GREAT (Green Research in Environmental and Advanced Technologies), applies an interdisciplinary approach to mineralogy, wastewater treatment processes, and engineering technology. GREAT focuses on the development of sustainable methods for processing and utilizing critical raw materials (CRMs) for the European Union, such as rare earth elements (REEs), which are essential for green technologies and digital innovations in line with the Green Deal. The goal is to develop innovative, environmentally friendly strategies for the efficient extraction and recycling of REEs from secondary sources. Key to this is the collaboration between the academic sphere and industrial partners for the exchange of knowledge and the practical application of our research. Our scientific objectives include identifying new sources of raw materials, new separation techniques at TRL 4, optimizing resource extraction processes, and assessing the environmental impacts of processing CRMs. The GREAT consists of 12 applicants from three member universities: TUKE (7), UCG (3), and USE (2), with two of them being young researchers. The relevance and quality of group members are guaranteed by the leading researcher, R4 (1), who has experience in leading the Horizon projects. The group also includes established researchers, R3 (6), a recognized researcher, R2 (1), and first-stage researchers, R1(3), all of whom possess extensive experience and high recognition.

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GREAT, consists of **12 applicants** from 3 member universities:

Technical University of Košice TUKE (7),
University of Montenegro UCG (3), and
University of Seville USE (2).

Relevance and quality of group members are guaranteed by the leading researcher R4 (1), who has experience from leading the Horizon projects;
established researchers R3 (7),
a recognized researcher R2 (1),
and first-stage researchers R1 (3) with extensive experience and high recognition.

Members of the Joint R&I group :

- Biljana Scepanovic
- Cinta BARBA BRIOSO
- Ema Ganovska
- Igor Đuriška
- JOAQUIN MARIA DELGADO RODRIGUEZ
- Ľubica Kozáková
- Martin Sisol
- Michal Marcin
- Milan Radulovic
- Slobodan Radusinovic



Ľubica Kozáková
Associate Professor



Martin Sisol
Professor



Marcela Malinžáková
Associate Professor



Igor Ďuriška
Assistant of Professor



Michal Marcin
Assistant of Professor



Ema Ganovská
PhD. student



Martina Laubertová
Associate professor
Lead Applicant



The GREAT group is expected to deliver tangible outcomes that contribute to Ulysseus' mission of fostering innovation, sustainability, and cross-institutional collaboration.

Within the funding period, we aim to produce:

1. Outcome: *2 or 3 joint scientific publications* in peer-reviewed journals focusing on sustainable metal recovery, resource optimization, environmental impact assessment, or wastewater treatment.

2. Outcome: *collaborative project proposal* under Horizon Europe or Erasmus+ addressing green and digital transitions.

3. Outcome: *workshops and dissemination events* promoting knowledge exchange across Ulysseus partners and stakeholders.

The project will also strengthen cooperation between universities and industrial partners, which will facilitate the transfer of research results into practice.

We need to plan activities and budget (12-month period) final of project september 2026

1. Activity: Workshop and Information Session in September:

A short online workshop and information session, hosted by the Chair of the Ulysseus Approval Committee, will take place in mid-September.

2. Activity: R&I Group Meetings

I suggest: 1. at **TUKE** in October 2025; 2. at **USE** in May 2026; and 3. at **UCG** in September 2026.

Budget for travel, accommodation, catering, material costs, and other eligible costs (coordination, digital tools, and internal logistics).

3. Activity: Workshop (as part of Ulysseus Košice Week Running 20 – 24 October 2025 on the Technical University of Košice)

Budget for materials, catering, venue rental, and other eligible costs (communication, digital materials, and documentation).

Total Requested Budget: 33 000€

All planned activities are complementary to existing work and directly support Ulysseus research and innovation agenda.

Be aware, that **ineligible costs** include, but are not limited to:

- Overhead costs,
- Staff costs,
- Equipment costs,
- Conference fees,
- Third parties' services (consultation companies etc.),
- Proposal writing costs and costs of such associated activities.

Final Decision on Funding

Partner University	Decision	Funding amount (EUR)
TUKE	APPROVED	2,100
USE	APPROVED	2,700
UCG	APPROVED	2,400
Total Sum		7,200

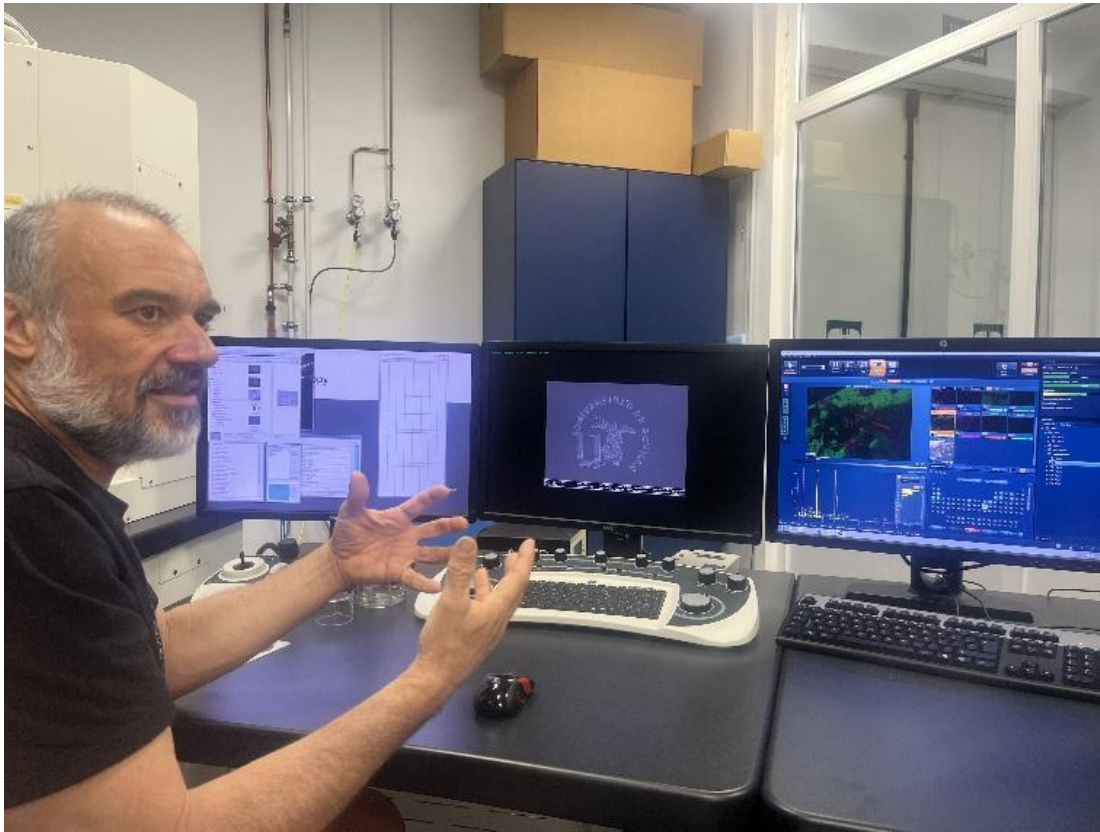


WORKSHOP Košice 2025



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WORKSHOP Seville 2026



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Spolupráca univerzít aliancie Ulysseus pri tvorbe európskych projektov v tematike Green Research and Sustainability

Cooperation of Ulysseus alliance universities in the creation of European projects on the topic of Green Research and Sustainability

Martina Laubertová¹, Cinta Barba Brioso², Biliana Scepanovic³, Tomáš Bakalár⁴, Sanja Peković⁵

Abstrakt



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