



# Circular economy for biodiversity Unlocking the green potential

*Skills for sustainable,  
resilient, and socially  
fair communities*

**EUROPEAN  
YEAR OF  
SKILLS**



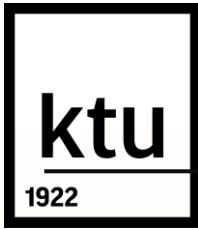
Date

June

5

3-11 June 2023

**#EUGreenWeek  
PARTNER EVENT**



**Kaunas University of Technology**

## 8 research institutes

Frontier and applied research born at KTU laboratories is changing the lives of global society.

## ~100 start-ups

Around 100 successful start-up companies have been founded at KTU Startup Space since 2012.

## 2 valleys

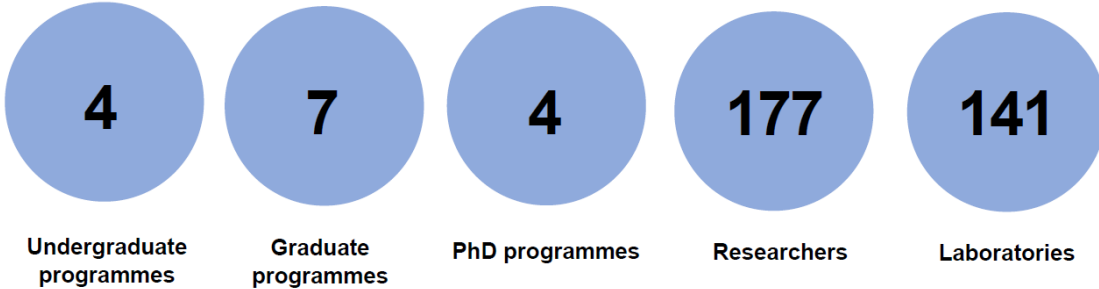
KTU is the founder of two integrated sciences, studies and business centres-valleys – **Santaka & Nemunas**. The first academic start-up community in Lithuania was also born at KTU.

## 9 faculties

KTU faculties deliver study programmes in all fields of science – from mechanical engineering to chemistry, economics and linguistics.



# FACULTY OF CHEMICAL TECHNOLOGY



13 research groups – materials and technologies for sustainable future:

- Chemical and environmental technologies
- Functional materials and technologies
- Food systems and biotechnology
- Applied and medicinal chemistry



CONNECTED

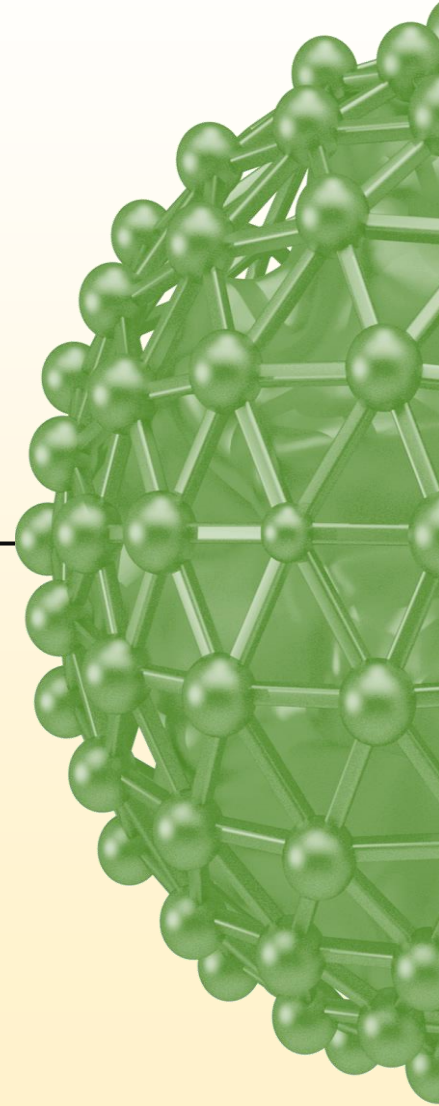


KTU is a member of **ECIU University**, the first European university where learners and researchers cooperate with cities and businesses to solve real-life challenges.

Junction between science and industry to solve real-life problems;

Scientific research practice in the internationally recognised research groups;

Modern laboratories, equipment and software.



# OUR MULTIDIVERSAL GROUP

## EXPERTISE

- Development, research and application in technology of (photo) catalysts, energy storage devices, adsorbents and liquid chemisorbents.
- Development, research and application in technology of special compound fertilizers with various additives that increase their efficiency and comply with the principles of the green course.

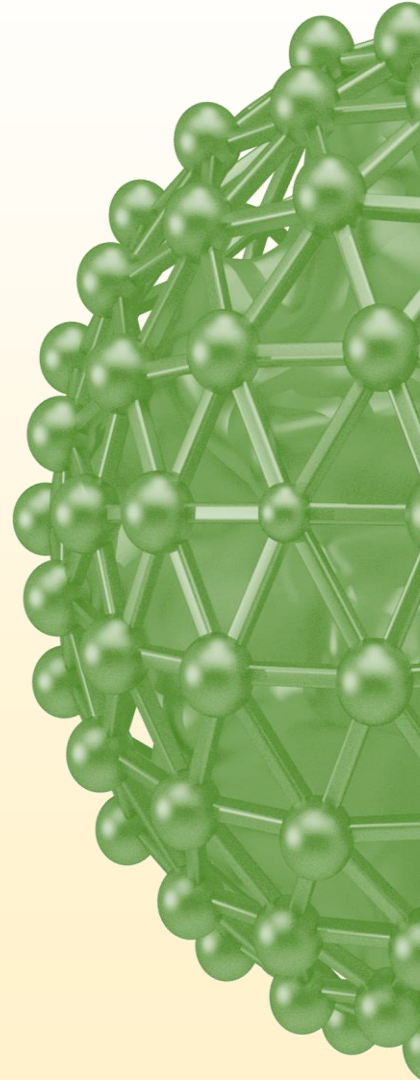
## HORIZON EUROPE TOPICS

### **Agriculture, forestry and rural areas:**

- Water, nutrients and waste;
- Sustainable, circular and innovative value chains.


### **Environment:**

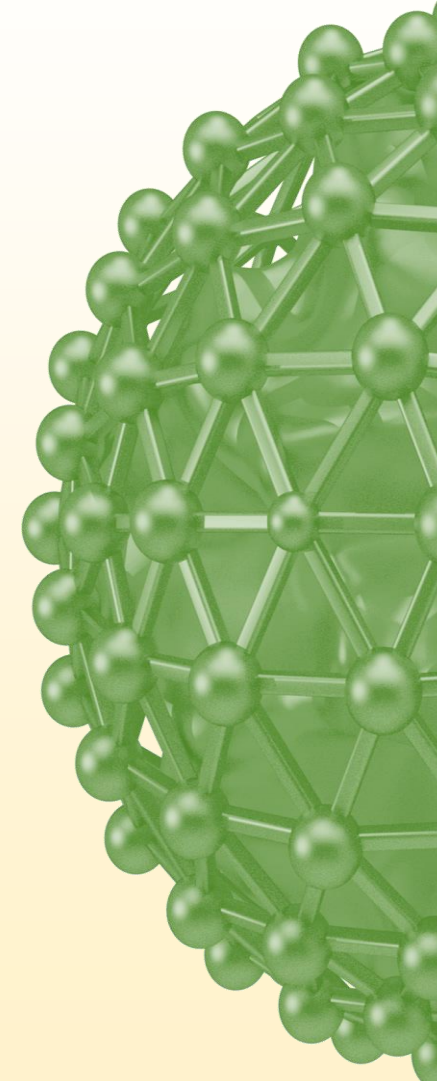
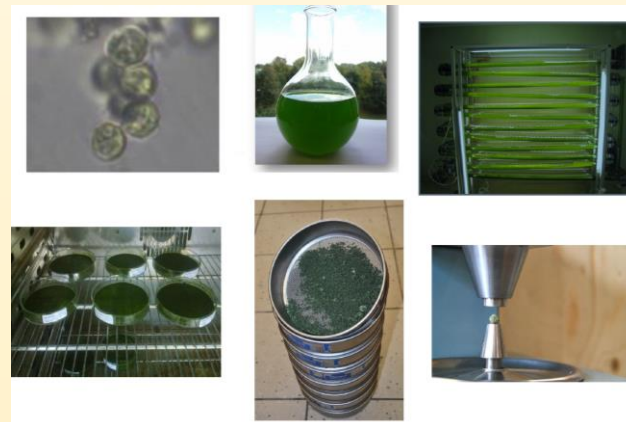
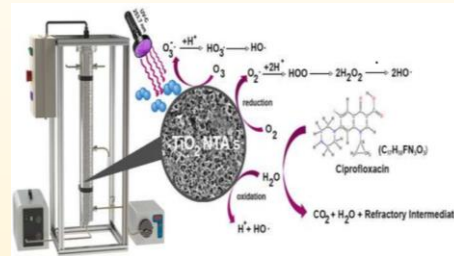
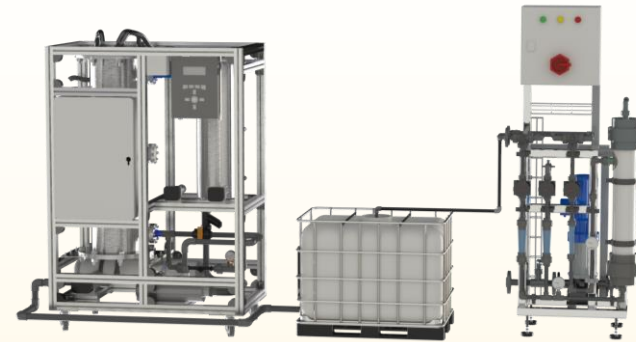
- Biodiversity;
- Bioeconomy (bio-based innovation systems in the EU's bioeconomy)
- Oceans and seas;
- Water.



# OUR MULTIDIVERSAL GROUP

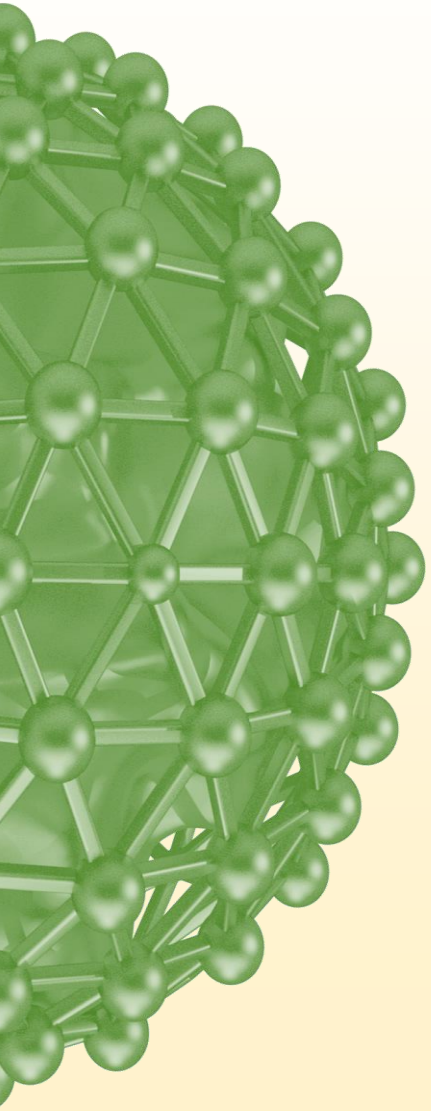
## EXPERTISE

- Working together with  YAQUATEC  
NEW VIEW TO WATER
- Which specializes in advanced drinking water purification and wastewater treatment technologies (ozonation, biological activated carbon, hybrid advanced oxidation and biological systems).



# Horizon Europe calls

- Holistic approaches for effective monitoring of water quality in urban areas;
- Robust and optimized industrial biotech and chemical/industrial biotech processes;
- New circular solutions and decentralized approaches for water and wastewater management;
- Associating Ukrainian cities to the Climate-neutral and smart cities Mission;
- EU-wide network of pilot plants and testing facilities, improving SMEs and start-ups' access to scale-up.







## Contact details

**Assoc.prof. dr. Agnė Šulčiūtė (Agne Sulciute)**

**E-mail: [agne.sulciute@ktu.lt](mailto:agne.sulciute@ktu.lt)**



# FACULTY OF CHEMICAL TECHNOLOGY

## BACHELOR'S STUDIES

- Chemical Technology and Engineering
- Food Science and Technology
- Industrial Biotechnology
- Applied Chemistry

## MASTER'S STUDIES

- Applied Chemistry
- Chemical Engineering
- Environmental Engineering
- Food Science and Safety
- Food Technology and Innovation
- Industrial Biotechnology
- Medicinal Chemistry

## PHD STUDIES

- Chemical Engineering
- Chemistry
- Environmental Engineering
- Materials Engineering

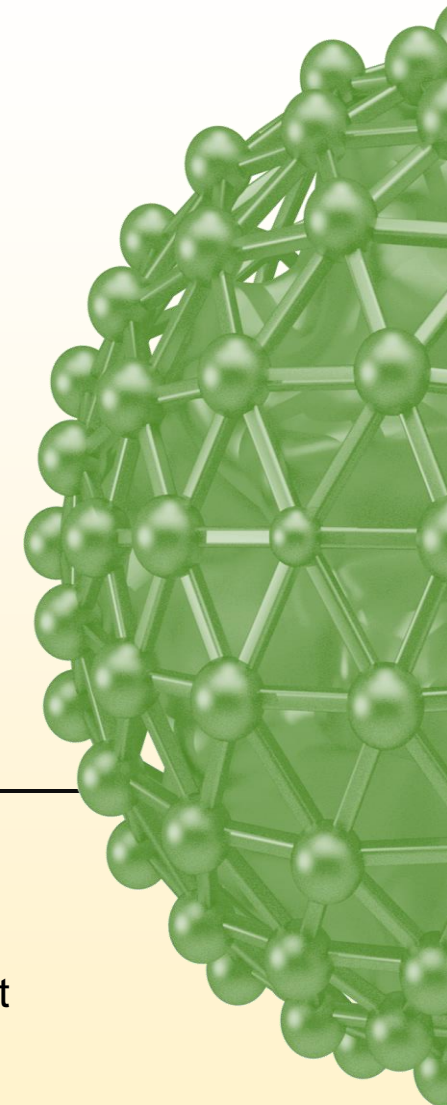


**Dean**

Kęstutis Baltakys

kestutis.baltakys@ktu.lt

<https://fct.ktu.edu/>





# FACULTY OF CHEMICAL TECHNOLOGY

## Links with businesses

