

LAND OF THE CURIOUS

WE ARE



LUT



 4 JUN 2026

ETF PEER LEARNING

Marko Torkkeli, Professor of innovation and entrepreneurship, head of LUT Kouvola unit

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Clean energy, water and air are life-giving resources for which we at LUT University seek new solutions with our expertise in technology, business and social sciences.

We help society and businesses in their sustainable renewal.

Our international community consists of nearly 9 000 members. Our campuses are in Lappeenranta and Lahti, Finland. We are one of the world's top universities for climate action.



LAND OF THE CURIOUS

People at LUT share a similar outlook on life and a state of mind. We look at things from unexpected perspectives, we question, and we search for solutions.

We are a community where curious people inspire others of their kind. We need curiosity to change the world.



LUT IN FIGURES

1969 year of foundation – technology and business; social sciences since 2023

€118,7M Ministry of Education and Culture: € 60.7 million
Supplementary funding: € 58 million

1300+ staff members

1,084 scientific publications (2023)

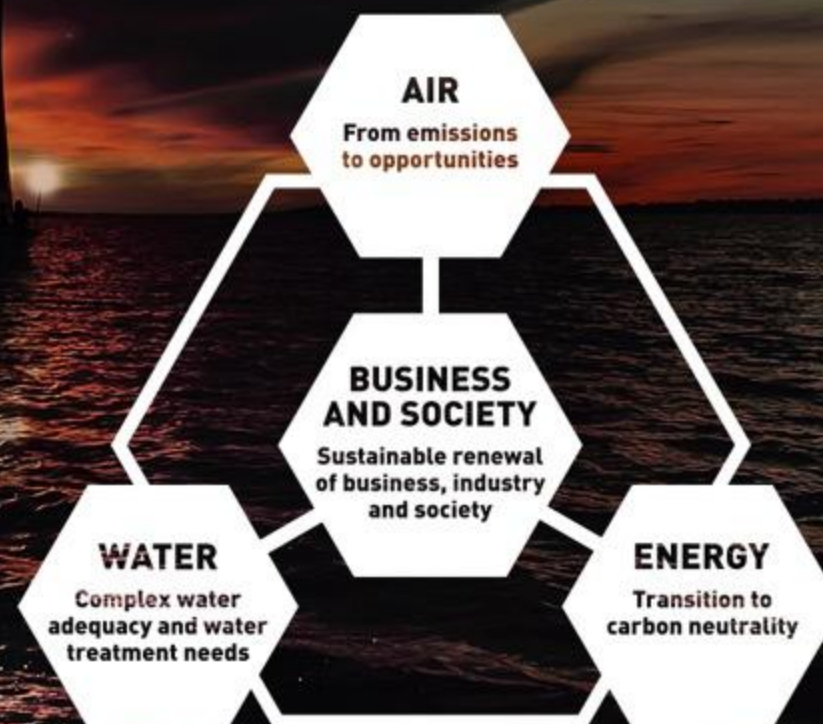
7 770 bachelor's and master's students

98 nationalities on the campuses

520 doctoral students

1/3 of first-year students are foreign nationals

SYSTEM EARTH



SCIENTIFIC SOLUTIONS

WATER COMPLEX WATER ADEQUACY AND WATER TREATMENT NEEDS

- Refining process and waste waters into value
- Making adequate water available
- Promoting novel solutions for water treatment

ENERGY TRANSITION TO CARBON NEUTRALITY

- Securing the supply of low-emission, resource-efficient energy
- Exploring the electrification of society and industry
- Developing power-to-x technologies and business
- Identifying energy market changes and industrial impacts

BUSINESS AND SOCIETY SUSTAINABLE RENEWAL OF BUSINESS, INDUSTRY AND SOCIETY

- Driving sustainable growth
- Creating value through digital transformation
- Renewing design, manufacture and processing for sustainable and competitive production
- Promoting social sustainability and global communication

AIR FROM EMISSIONS TO OPPORTUNITIES

- Evaluating air quality, emissions and climate impacts
- Turning emissions into products with new technology

INDICATORS 2025

RESEARCH

- 66 doctorates a year
- Publication Forum classifications 2–3 (1/researcher/year)
- 10 showcases of research excellence
- €5 million a year in EU Commission funding

EDUCATION

- 630 Master of Science (Technology) degrees a year
- 260 Master of Science (Econ. & Bus. Admin.) degrees a year
- €5 million a year in external revenue from education

IMPACT

- Leading industry collaboration partner in Finland
- Graduate employment rate tops that of other universities
- Carbon-neutral LUT in 2024
- 15% annual growth in citations (Scopus)
- 100% of publications open access in 2020

MANAGEMENT

- Responsive work climate
- Monthly mood tracking (average score 3/4)
- At home on both campuses

Examples of LUT's environmental handprint

LEADING THE ENERGY TRANSITION

- » Renewable electricity with wind and solar power
- » Electrification of energy systems and transportation
- » Small modular reactors
- » **Instead of burning fossil fuels, we promote renewable, emission-free energy.**



Examples of LUT's environmental handprint

POWER-TO-X AND THE HYDROGEN ECONOMY

- » Carbon dioxide recovery, utilization and storage
 - » Power-to-x technology
 - » Hydrogen economy
-
- » Instead of releasing emissions, raw materials can be captured from the air for the production of energy and goods.





Master's Programme in **INNOVATION AND LOGISTICS**



LUT University, Kouvola Unit
Kauppalankatu 13
45100 Kouvola, Finland





Master's Programme in

FOOD PROCESSING TECHNOLOGY

LUT University, Kouvola Unit
Kauppalankatu 13
45100 Kouvola, Finland



SOLAR FOODS IS LISTED NASDAQ, SEP 10, 2024



TEAM AT KOUVOLA

➡ Research, teaching and the 3rd mission

- 1100+ scientific articles, 150+ Master's thesis, 10+ Meur funding, 150+ invited keynotes, 20.000+ conference delegates

➤➤ Long game: do the right things, do the things right

Future 2030

➤➤ 200+ students, dynamic and active **glocal** rainmaker in education and research



OPEN FOR COLLABORATION

- »» Research: projects funded by EU/others – sustainable food system 2.0, from nature to table – process, innovation management and entrepreneurship, logistics
- »» Education: double degree programmes, student summer schools, staff exchange
- »» Other topics?

JIM

Journal of Innovation Management

The International Journal on Multidisciplinary Approaches on Innovation

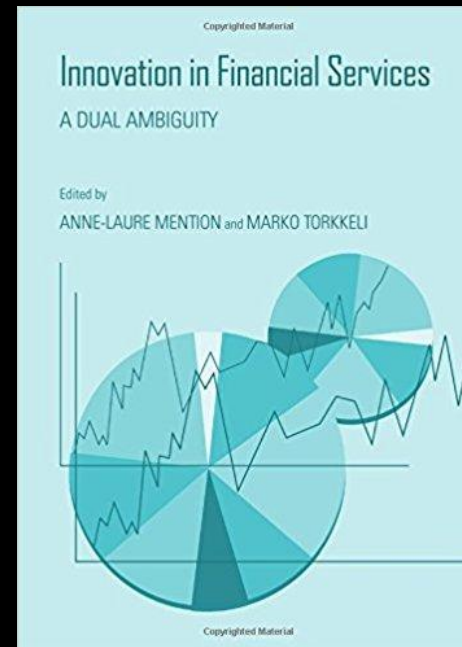
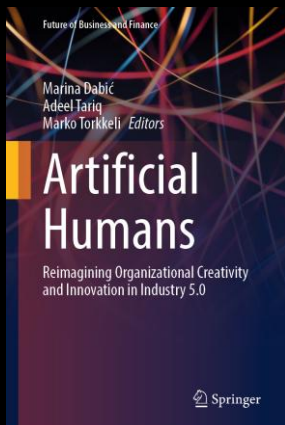
International Society for



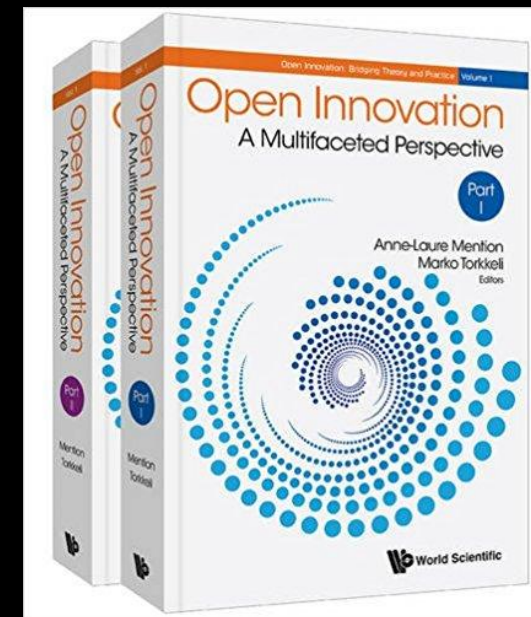
Professional
Innovation
Management

ispim

www.ispim.org



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LUT
University





Open your mind. LUT.
Lappeenranta University of Technology

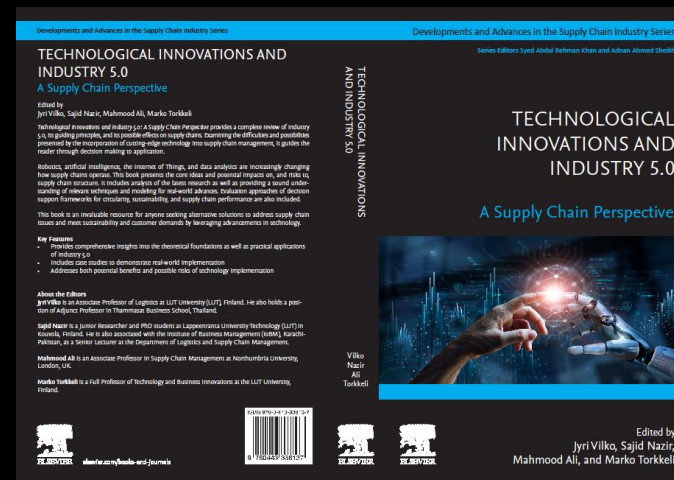
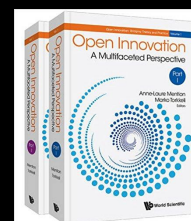
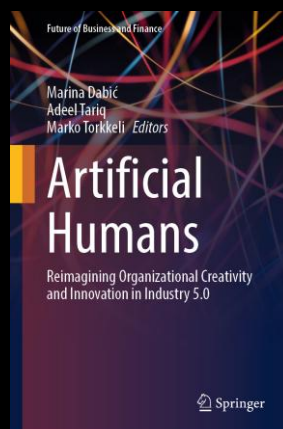
CONTACT INFO & READINGS

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Professori, innovaatio&yrittäjyys

email: marko.torkkeli@lut.fi

Lappeenranta-Lahti University of Technology (LUT), Kouvola Unit



Our rankings among the world's 25,000 universities

ONE OF THE WORLD'S TOP UNIVERSITIES

101–200

Times Higher
Education
Impact Rankings
2023*

126–150

Times Higher
Education World
University
Rankings
by subject:
*business and
economics 2024*

251–300

Times Higher
Education World
University
Rankings
by subject:
*engineering and
technology 2024*

251–300

Times Higher
Education World
University
Rankings 2024

336

QS World
University
Rankings 2025

176–200

Times Higher
Education World
University
Rankings
*by subject: physical
sciences 2024*

*The Times Higher Education Impact Rankings 2023 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.





LUT is one of the world's

TOP 300 UNIVERSITIES

in the THE Impact Rankings.

The Times Higher Education Impact Rankings 2025 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.

 LUT University is
15th IN THE WORLD
in responsible consumption and production (SDG 12)

The Times Higher Education Impact Rankings 2023 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.





LUT University ranks among the

WORLD'S TOP 10

for climate action (SDG 13)

The Times Higher Education Impact Rankings 2023 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.





LUT University ranks among the

WORLD'S TOP 40

in partnerships for the goals (SDG 17)

The Times Higher Education Impact Rankings 2024 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.





INTERNATIONAL PARTNERSHIPS

EULiST – European Universities Linking Society and Technology

EUROPEAN COLLABORATION

- » LUT is a member of the EULiST European university alliance
- » 10 universities, 20 000 staff members, 200 000 students
- » Strategic partnership
- » Fields: science, technology, engineering, mathematics, social sciences and humanities
- » In practice: long-term collaboration in education, research, campus life, innovation and service to society



■ The EULiST European university alliance

AIMING FOR A JOINT EUROPEAN UNIVERSITY

- » The partners have put plans in motion for a new joint European university with EU funding.
- » The aim is to improve the competitiveness of partner universities.
- » Only the top 10% of universities belong to joint universities in Europe.
- » For students: a joint virtual campus, minor subject modules at other EULiST universities
- » For researchers: networks, funding application workshops
- » Stay tuned: eulist.university





SUSTAINABILITY

We promote the UN's Sustainable Development Goals

FOCUS ON ENVIRONMENTAL HANDPRINT

- » LUT is a compact university with a large handprint in the area of climate change.
- » LUT's graduates, research projects, final theses and innovations have a positive impact on sustainable development in society and business.
- » Our strategic choices are all guided by the principles of ecological, economic and social sustainability.



Examples of LUT's environmental handprint

LEADING THE ENERGY TRANSITION

- » Renewable electricity with wind and solar power
- » Electrification of energy systems and transportation
- » Small modular reactors
- » **Instead of burning fossil fuels, we promote renewable, emission-free energy.**



Examples of LUT's environmental handprint

POWER-TO-X AND THE HYDROGEN ECONOMY

- » Carbon dioxide recovery, utilization and storage
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-
- » Instead of releasing emissions, raw materials can be captured from the air for the production of energy and goods.



Examples of LUT's environmental handprint

RESEARCH ON CLEAN WATER

- » Modern separation and purification technology
- » Membrane filtration in the pulp, paper and food industries and other industry sectors
- » Recovery of nutrients and harmful residues, such as microplastics and pharmaceuticals
- » **Instead of polluting, modern water refinement recycles nutrients, circulates water resources, and stops harmful chemical flows into the environment.**



Examples of LUT's environmental handprint

SUSTAINABLE RENEWAL OF BUSINESS

- » Sustainable added value and entrepreneurship
- » New business models based on responsibility, circularity and digitalisation
- » Changes in consumer behaviour and encouragement of responsible consumption
- » **Instead of resource exploitation, successful business is based on sustainability.**



 Examples of LUT's environmental handprint

SUSTAINABILITY IN ACADEMIC EDUCATION

- » National feedback surveys indicate that the sustainability competencies of LUT's bachelor's and master's graduates are higher than in reference universities on average.
- » All of LUT's degree programmes include learning outcomes that promote sustainability competencies.
- » Sustainable development is a cross-cutting theme in bachelor's, master's and doctoral degrees at LUT Business School, and LUT's open university studies foster sustainable development.



United Nations
Global Compact



OUR COMMITMENTS

LUT is committed to the United Nations' Sustainable Development Goals.

LUT's Commitments

OUR PRIMARY GOALS



Through our Trailblazer 2030 strategy and research, we primarily influence the UN Sustainable Development Goals above.

 LUT's commitments

CLIMATE ACTION PLAN GUIDES OUR ACTIONS

- » We are committed to becoming carbon neutral in the GHG (Greenhouse Gas Protocol) scopes 1 and 2 by the end of 2024. Thanks to emission-free, renewable electricity and other climate actions taken, we are already very close to zero.
- » In addition, we cooperate with our staff, students and partners to reduce emissions indirectly related to the university's operations – e.g. campus food services, commuting, business travel and procurement.



RESEARCH

Science with a Purpose

LEADING RESEARCH

- » Finland's largest academic research and education community in the field of energy
- » Unique nuclear safety expertise
- » Finland's most extensive water treatment research cluster
- » A leading research and education community in separation technology
- » A leading research community in international, sustainable, high-growth business
- » 41st in the world in citations
(QS World University Rankings 2025)



SCHOOLS

LUT School of **ENGINEERING SCIENCES**

- » Separation technology
- » Physics
- » Computational engineering
- » Software engineering
- » Industrial engineering and management
- » Social sciences

LUT School of **ENERGY SYSTEMS**

- » Energy technology
- » Electrical engineering
- » Sustainability science
- » Mechanical engineering

LUT **BUSINESS SCHOOL**

- » Driving sustainable growth
- » Creating value in a digital economy





RESEARCH PLATFORMS

- » AMBI – Analytics-Based Management for Business and Manufacturing Industry
- » GREENRENEW – Green Hydrogen and CO₂ for Industry Renewal
- » INERCOM – Integrated Energy Conversion Machinery
- » MORE SIM – Modelling Reality Through Simulation
- » SCI-MAT – Sustainable Circularity of Inorganic Materials



AMBI

**Analytics-Based Management for
Business and Manufacturing Industry**

We apply data analytics to research on smart technologies, digitalisation and business in the manufacturing industry.

Our research helps companies to improve their competitiveness and sustainable value creation in a digital economy.



GREENRENEW

Green Hydrogen and CO₂ for Industry Renewal

We are contributing to the green transition to carbon-neutral industry based on renewable energy. We create cost-efficient solutions for key technologies in the industry renewal.

Our solutions focus on green hydrogen and see carbon dioxide as a raw material instead of a problem.



INERCOM

Integrated Energy Conversion Machinery

We promote the transition to a carbon-neutral world by creating record-breakingly efficient solutions for energy conversion devices.

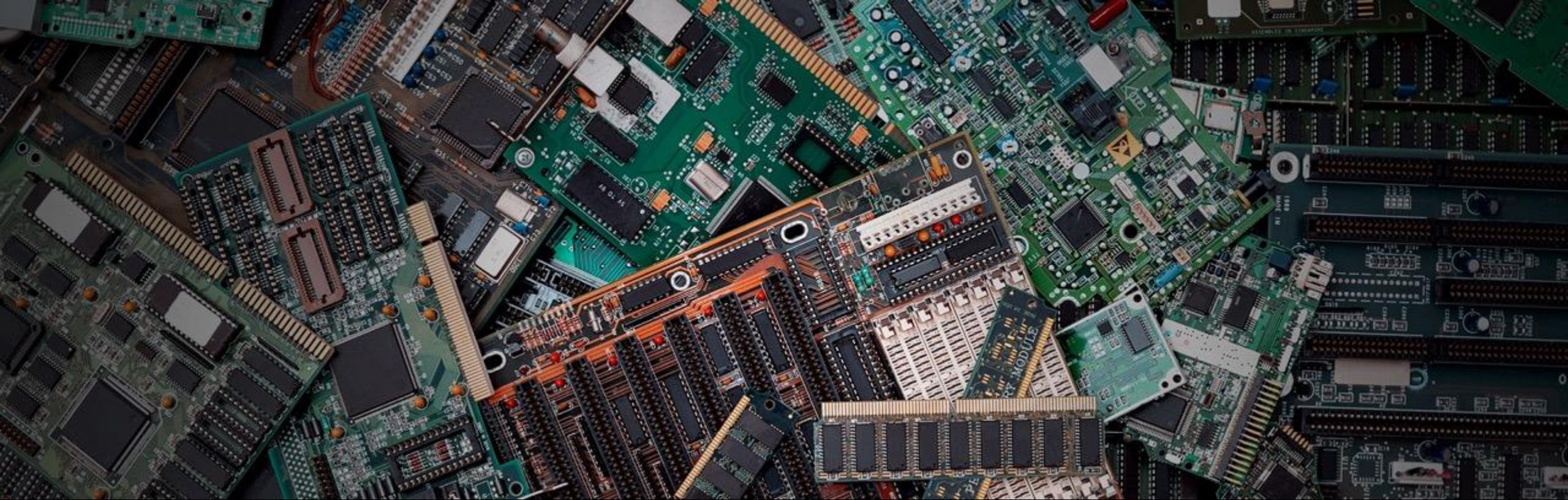


MORE SIM

Modelling Reality Through Simulation

We address virtual human, machine and environmental systems that enable the organisation of industrial activity.

We develop simulation-based techniques to advance sustainable industrial growth.



SCI-MAT

Sustainable Circularity of Inorganic Materials

We examine the circular economy models of metals and industrial minerals by utilising municipal and electronic waste and side flows from mining and other industry as raw materials.

We create reusable materials through mechanical and hydrometallurgical processes.



EDUCATION

Full focus on sustainability – in technology, business and social sciences.

FIELDS OF STUDY

LUT School of **ENGINEERING SCIENCES**

- » Chemical Engineering
- » Computational Engineering
- » Software Engineering
- » Industrial Engineering and Management
- » Communication Sciences
- » Social Sciences

LUT School of **ENERGY SYSTEMS**

- » Energy Technology
- » Mechanical Engineering
- » Electrical Engineering
- » Environmental Technology

LUT **BUSINESS SCHOOL**

- » Supply Management
- » International Marketing
- » Accounting
- » Business Analytics
- » Strategic Finance



PROGRAMMES FOR STUDENTS

- » 19 bachelor's programmes
 - 11 Finnish-language and 8 English-language technology programmes
- » 43 master's programmes
 - 11 Finnish-language and 32 English-language programmes
- » Doctoral studies in technology and business
- » Continuous learning – open university studies and training alongside work
- » MOOCs – massive open online courses on climate action
- » Exchange studies
- » LUT Summer School
- » Junior University – science and technology education for primary and secondary school



SOCIAL SCIENCES

- » Sustainable citizenship
- » Societal renewal
- » People and technology



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University education is a
great way to put research
findings into practice.

Aki Mikkola

mechanical engineering

LUT School of Energy Systems

Professor of the Year 2023 (Finnish
Union of University Professors)



Finland's third

BEST IN ENGINEERING EDUCATION

Times Higher Education World University Rankings 2024
by subject: engineering, top 251–300



Finland's second

BEST IN PHYSICAL SCIENCES EDUCATION

Times Higher Education World University Rankings by Subject:
physical sciences 2024, 176—200

Finland's second

BEST BUSINESS SCHOOL

Times Higher Education World University Rankings 2024
by subject: business and economics, top 126–150



IMPACTFUL INTERNATIONAL EDUCATION

93% employment rate one year
after graduation

68% of master's programmes
are taught in English

35% of master's programmes can be
completed alongside full-time work

3rd in the number of international
graduates in Finland

17,000 alumni

29% of teachers and researchers
are foreign nationals

LUT PARTNERS



LUT has the

MOST SATISFIED STUDENTS IN FINLAND

Finnish Bachelor's Graduate Survey 2023

LUT graduates have the

HIGHEST STARTER SALARIES IN FINLAND

TEK Graduate Survey 2022
Suomen Ekonomit graduate survey 2022



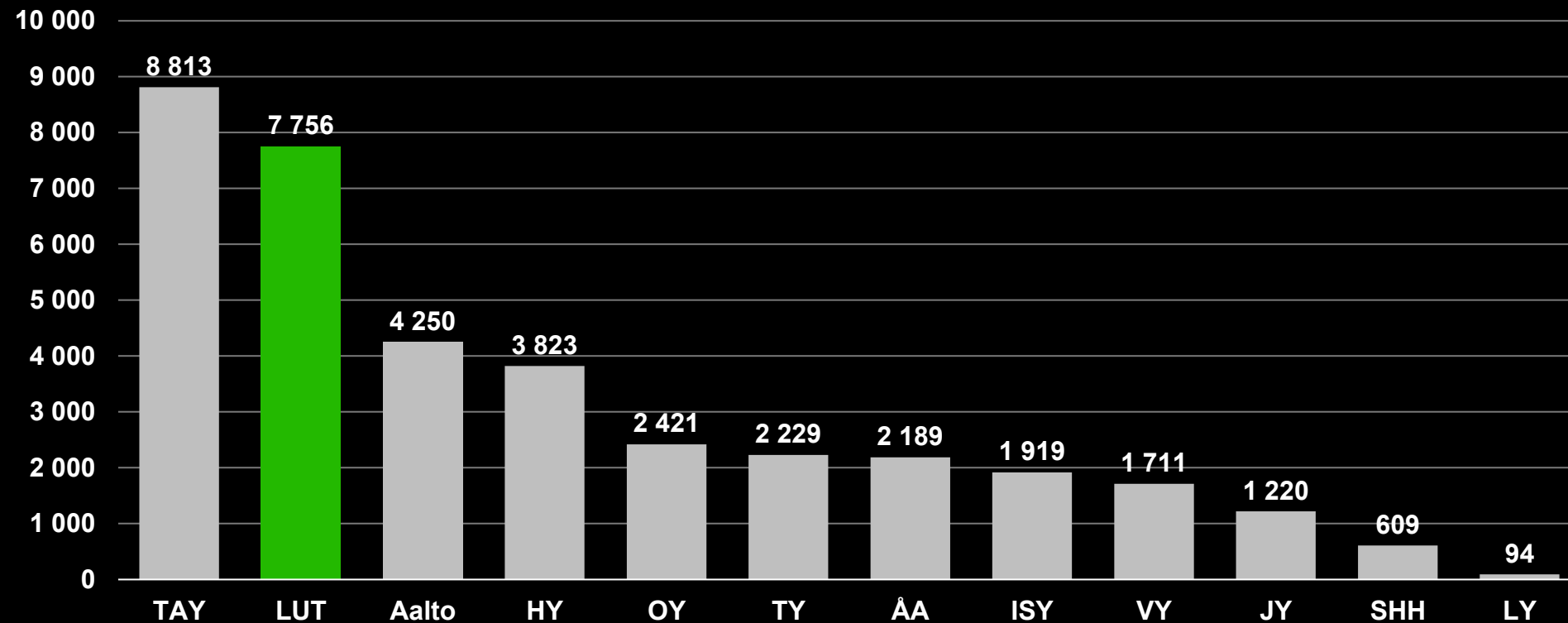


IMPACT

We help businesses and society in their sustainable renewal.

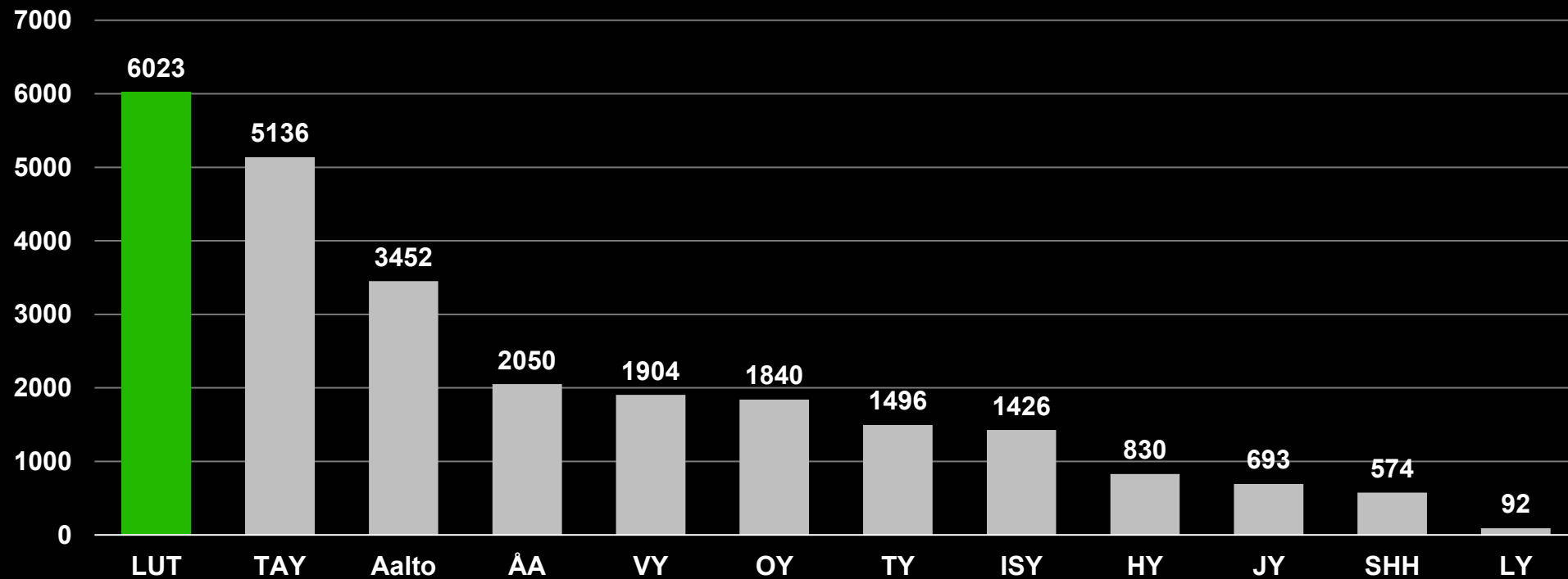
SOUGHT-AFTER RESEARCH PARTNER

» Industry income / teaching and research staff member (person-years) 2022, average (€)



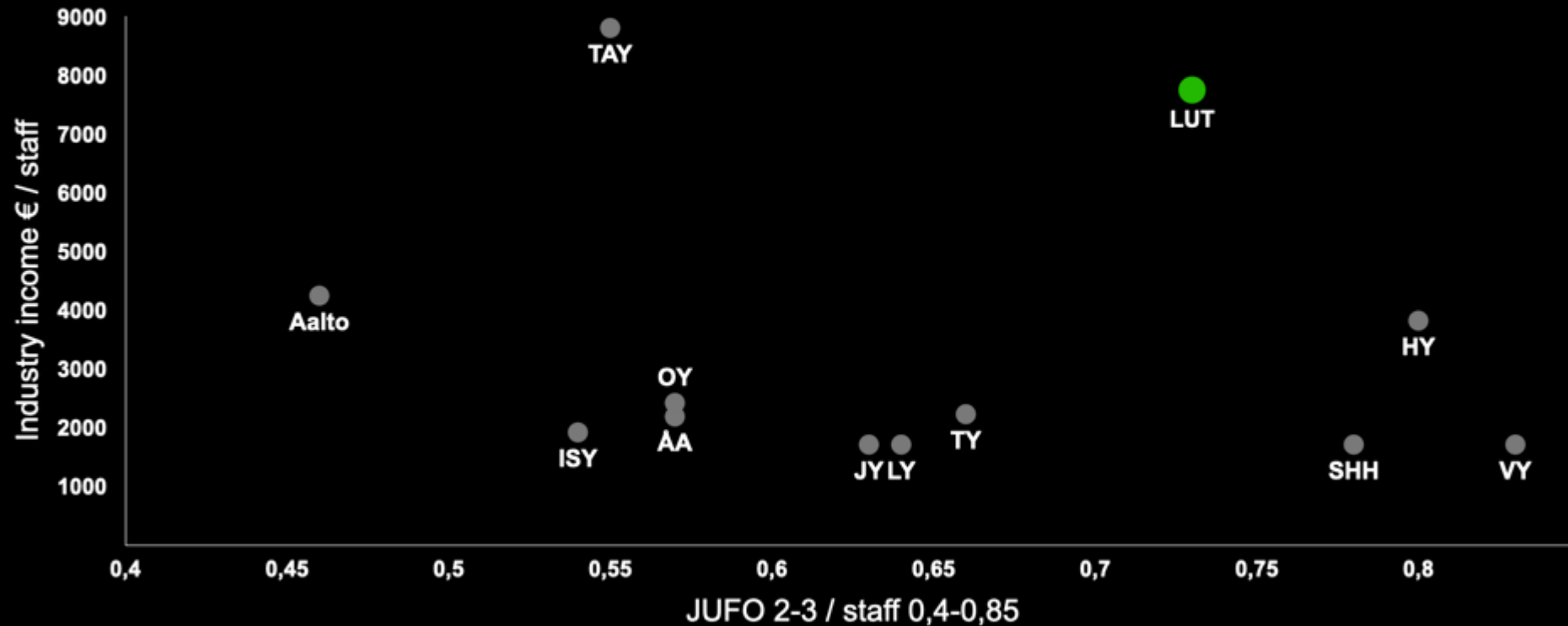
MOST TRUSTED IN FINLAND

» Domestic research funding / teaching and research staff member (person-years) 2020–2022, average (€)



■ All Finnish universities 2022

JUFO 2–3 PUBLICATIONS AND INDUSTRY INCOME PER TEACHING AND RESEARCH STAFF MEMBER



A UNIVERSITY THAT EMBRACES BUSINESS

»» Research collaboration and innovations

- Commercialisation of research
- Research projects
- Commissioned research
- Laboratory and measurement services

»» Continuous learning

- Continuing professional development
- Commissioned training
- Open university studies and master's programmes alongside work

»» Recruitment services

- Recruitment partnerships
- Recruitment and employer events
- Final thesis projects and study assignments





GREEN CAMPUS OPEN

- » Promotes the commercialisation of LUT's research
- » Furthers the utilisation of LUT's scientific research results by societal actors
- » Oversees LUT's intellectual property rights (IPR) patent portfolio and patent sales
- » Offers investment companies insights into the university's startups and business ideas
- » Green Campus Innovations is the investment company of LUT Universities, VITAKO and the LUT research foundation



STRATEGIC INDUSTRY PARTNERS



ABB Oy



The Switch
A Bemac Group Company



Danfoss Editron

Strategic partnerships are long-term activities between the company and LUT University.



KEY PARTNERS



LUT SPIN-OFFS



2 organisations, 2 missions, 3 campuses

LUT UNIVERSITIES

WE ARE STRONGER TOGETHER

- » RDI: combined expertise in research, development, and innovation
- » EDUCATION: internationalisation, continuous learning, and guidance in choosing an education path
- » COMMUNITY: shared culture, shared university services, and a thriving community
- » GROWTH: expansion beyond Finland and new business opportunities



STRONGLY SPECIALISED INTERNATIONAL SCIENCE UNIVERSITY

- » Internationally competitive research groups
- » Corporate collaboration brings relevance to research
- » Strong international Master's and doctoral programmes

RESEARCH FOCUS

- » Energy
- » Air
- » Water
- » Responsible business

WIN-WIN

Cooperation
in RDI and
education



HIGHER EDUCATION INSTITUTION FOCUSING ON BUSINESS, INDUSTRIES AND THE WORLD OF WORK

- » Bachelor's degrees driven by the requirements of the working world
- » National focus areas in education
- » Innovation serving regional needs

STRENGTHS IN EDUCATION AND RDI

- » Intangible value creation
- » Multipurpose materials
- » Human well-being

Our campus cities

LAHTI AND LAPPEENRANTA

LAHTI - Population 120 000

- » The City of Lahti received the European Green Capital Award 2021 in a competition organized by the European Commission.
- » Lahti is aiming for carbon neutrality by the end of 2025.

LAPPEENRANTA - Population 70 000

- » Lappeenranta is one of the greenest cities in Europe. The European Commission gave it the Green Leaf Award in 2021.
- » 13th largest city in Finland.

