

WHY LUXEMBOURG?

A competitive research system

The European Commissions' Innovation Union Scoreboard 2015 highlighted Luxembourg:

- › as an 'Innovation Follower' above Austria, Belgium, France, Ireland, Slovenia and the UK
- › as the star performer in the 'open, excellent and attractive research system' dimension

➔ [More info on ec.europa.eu](http://ec.europa.eu)

Attractive funding opportunities

The Luxembourg National Research Fund (FNR) supports PhD students with attractive grants.

➔ [Find out more at www.fnr.lu](http://www.fnr.lu)

A reliable, dynamic and open country

- › One of the best standards of living in the world
- › Efficient health and social security systems
- › An economic diversification programme, placing particular emphasis on research and the development of innovative technologies
- › The driving force of employment for the Greater Region
- › An enormous concentration of international expertise
- › Close connections, great proximity to the decision-makers and unparalleled flexibility
- › Welcoming people from different origins and cultures and displaying open-mindedness to new and innovative ideas
- › Most inhabitants fluent in several languages
- › European headquarters of numerous global corporations

➔ [Discover the full profile of Luxembourg on nationbranding.lu](http://nationbranding.lu)

Contact



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**We look
forward to
welcoming
you!**

DOCTORAL TRAINING

**Start
your career
with LIST!**

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The Luxembourg Institute of Science and Technology (LIST) is a mission-driven Research and Technology Organization (RTO) that develops advanced technologies and delivers innovative products and services to industry and society.

Accommodating PhD students is a strategic focus that enables us not only to maintain strong ties to academia, but also to work on cutting-edge topics with a view to scientific publishing.

More than one hundred PhD students and post-docs are consequently supervised, either with the universities of the Greater Region with whom we have had natural academic partnerships for many years, or with the many international universities that work in the same areas as us.

WHY CHOOSE LIST FOR YOUR DOCTORAL TRAINING?

A challenging hosting institution

- › Context of applied research, oriented towards the development of innovative technologies
- › Working closely alongside national and international industry
- › State of the art equipment, facilities, tools and capabilities
- › Multidisciplinary and multicultural coworkers coming from all over the world
- › Located at the Belval Innovation Campus, which gathers the key Luxembourgish research players on a unique single site

A tailored offer

- › Personalized support throughout your PhD
- › Individual training plan for your personal development
- › Complementary cooperation between LIST and your university
- › Leading experts and professional supervision

Our **3** technology departments welcome doctoral students in diverse fields

1 ENVIRONMENTAL RESEARCH AND INNOVATION (ERIN) DEPARTMENT

ERIN develops strategies, technologies and tools to better monitor, assess, use and safeguard renewable resources.

Research areas:

- Water security and safety
- Plant science and biotechnologies
- Life cycle sustainability and risk assessment
- e-Science: Data analytics, visualization and management

Key application fields: Smart Buildings and Cities, Renewable Energies, Circular Economy, Precision Agriculture

Director: Prof. Dr Lucien Hoffmann



2 IT FOR INNOVATIVE SERVICES (ITIS) DEPARTMENT

ITIS conducts research to develop models, methods, software and devices for smart systems, fusing human and technological aspects.

Research areas:

- Decisional Knowledge Dynamics
- Trusted Service Systems
- Service Engineering with Impact

Key application fields: Regulated Services and FinTech, Building environments, Logistics and Mobility, eHealth and Wellbeing

Director: Prof. Dr Eric Dubois



3 MATERIALS RESEARCH AND TECHNOLOGY (MRT) DEPARTMENT

MRT focuses on two Key Enabling Technologies (KETs): nanomaterials & nanotechnology, and composite materials.

Research areas:

- Transducing materials and actuators
- Photocatalysis and energy harvesters
- Transparent electronics and smart nanocomposites
- Point-of-Care and drug delivery
- Modelling and design of structures and multifunctional composites
- Bio-based polymers and composites
- Adhesion and compatibilization of fibres/matrix
- Process engineering and advanced manufacturing

Key application fields: Space and Aeronautics, Smart Glass and Buildings, Sensors and Automotive, High-Tech Equipment and Consumer Goods, Medical and Cosmetics

Director: Prof. Dr Jens Kreisel

