



—  
**MAKING  
RESEARCH  
OUR  
STRENGTH**  
—



As a key player in research and innovation in Luxembourg, the Luxembourg Institute of Science and Technology (LIST) covers with its 630 employees the domains of materials, environment and IT. As an RTO (Research and Technology Organisation) and with its interdisciplinary impact-driven approach, LIST contributes to the development of Luxembourg's economy and society.

## **Group Leader - Remote sensing and ecohydrological modelling (M/F)**

**Ref: 20150401\_ERIN-GL\_RSEM**

**Open ended contract**

### **Context of intervention**

The Luxembourg Institute of Science and Technology (LIST) is appointing the Leader of its Research Group on “Remote sensing and ecohydrological modelling”.

This Research Group is part of the “Water Security and Safety” Research Unit within the “Environmental Research and Innovation” (ERIN) Department. It is presently composed of 15 researchers, engineers, technicians and PhD students.

Its RDI activities focus on the integration of advanced remote sensing technologies (satellite, airborne, ground), geoinformation science tools and environmental models for the assessment, monitoring, and management of natural resources, with a particular emphasis on water resources (flood and drought, as well as water quality management), from the local to the global scale. The group has substantial expertise in the acquisition and quantitative analysis of microwave, hyperspectral and thermal infrared image data and their assimilation into eco-hydrological models.

The final goal is to cover the whole innovation chain and design, craft, test and bring to the market new technological solutions relying on Earth observation information for keeping water resources safe and secure.

The Group has at its disposal in-house analytical facilities, a testbed with a dense hydrometeorological measurement network of ground sensors, an UAV, an airborne hyperspectral long-wave infrared imager, as well as a high-performance computing facility.

### **Responsibilities and missions**

#### **Main responsibilities**

The Group Leader is responsible - in accordance with his/her Head of Unit and ERIN's Direction – for the overall management, coordination, development and performance of his/her group.

In this framework, he/she is expected to:

- Develop the valorisation of the group's outcomes in terms of patents, licences, prototypes production, spin-offs;
- Develop industrial partnerships that would lead to bilateral research projects/programs, provisions of services and long term collaborations;
- Increase the impact and visibility of the LIST and the group's RDI domain at the European level.

More information on [list.lu/jobs](https://list.lu/jobs)



## MAKING RESEARCH OUR STRENGTH



### Main missions

#### Strategy definition and implementation

- Define and propose a RDI strategy for the group, aligned with the department's strategy and with LIST missions as an RTO
- Ensure the implementation of the RDI group business plan and that the RDI group's contribution to the RDI Unit performance indicators is achieved
- Develop and maintain a pipeline of innovative products and services, that solve concrete challenges, transferable to the private and/or public sectors
- Develop interdisciplinary collaborations with in-house Research Groups and Units, putting firstly the emphasis on the collaboration with the other Research Groups of the Unit ("Catchment eco-hydrology", "Chemical pollution control and impact assessment", and "Bioindication and microbial biosensors"), as well as with the e-Science Research Unit
- Develop external collaborations, partnerships and networks

#### Research group administration

- Insure the financial follow-up of the group's performances
- Assist the Head of Unit in reporting tasks and other administrative activities
- Manage the portfolio of associated projects and activities related to the group
- Be responsible for the scientific and technological quality of the activities performed in the group
- Represent the group and promote its achievements externally, in line with the LIST's communication strategy

#### Team management

- Lead a multicultural and multidisciplinary team of researchers and create a stimulating and satisfying work environment within the group
- Be hierarchically the person responsible for the group members and assume the operational responsibility of the group's human resources
- Develop team competencies, align the competencies currently held by the team with the requirements of LIST strategy, especially in terms of RDI outputs valorisation
- Appraise team members performance, identify development needs and ensure development plans are effectively implemented with the guidance of HR

Beside these responsibilities and missions, the Group Leader shall continue to build his/her scientific and technological knowledge and directly contribute to projects relying on his/her high level of expertise.

## Profile

### Education and experience

- Hold a PhD degree in remote sensing or another environmental science with a specialization in remote sensing
- Have a sound knowledge and comprehension of both the industrial and academic world. Understand commerce and markets
- Have at least 5 years of relevant professional experience in team and project management within a competitive RDI environment. Having experience in working with/for industry would be considered as an asset
- Have a proven experience in the acquisition and management of ESA, respectively European projects
- Demonstrate a strong experience in developing innovative products and services and in bringing to the market new technological solutions that have real world value, relying on Earth observation information

More information on [list.lu/jobs](https://list.lu/jobs)



## MAKING RESEARCH OUR STRENGTH



- Possess a sound experience in generating intellectual property and in valorising scientific and technological results (contract research, patents, licenses)

### Competencies

- Show a high-level scientific and technological track record related to remote sensing and ecohydrological modelling
- Have a sound RDI experience in a subdomain of remote sensing (processing remote-sensing data, developing spatial modelling techniques, analysing integrated environmental and EO datasets, ...), as well as in the development of applications and downstream services exploiting the opportunities of data and signals available from satellites.

### Language

Have an excellent command of English and good knowledge in at least one of the official languages of the country (French, German or Luxembourgish)

### Contact

Candidates interested in the above position can **apply online via our website:** [www.list.lu](http://www.list.lu)

The application file should include:

- a CV, including a list of RDI outcomes (patents, prototypes, publications,...)
- a motivation letter
- at least 3 reference contacts
- a report (maximum 15 pages) including the past and current RDI activities, your main outcomes in terms of innovation and your vision for the RDI group development
- any other document you may think useful to be considered in your application file.