

Postdoctoral

Ecole/Institution/Société:

University of Luxembourg, Luxembourg / Luxembourg

Discipline:

Robotic Engineering

Type d'emploi::

Full-time

Date de publication:

2025-02-23

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech

PostDoc in Reinforcement Learning for Space Robotics

About us...

The University of Luxembourg is an international research university with a distinctly multilingual and interdisciplinary character.

The Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the University of Luxembourg is a leading international research and innovation centre in secure, reliable and trustworthy ICT systems and services.

We play an instrumental role in Europe by fueling innovation through research partnerships with industry, boosting R&D investments leading to economic growth, and attracting highly qualified talent. We look for researchers from diverse academic backgrounds to contribute to our projects in areas such as: Network Security, Information Assurance, Model-driven Security, Cloud Computing, Cryptography, Satellite Systems, Vehicular Networks, and ICT Services & Applications.

About the role...

The successful candidate is expected to assume a leading role in defining, acquiring, managing, and scientifically contributing to projects in Reinforcement Learning on Space Robotics. The candidate will carry a leading role in this area and support PhD candidates in their thesis research. The candidate will work closely with Prof. Olivares-Mendez and the members of the Space Robotics (SpaceR) research group (www.spacer.lu).

The group works across the entire spectrum of space robotics research and applied research to conceive and demonstrate future paradigms on lunar exploration, anomalies/failures identification and prediction, in-space operations, assembly and manufacturing, active and passive space debris removal, XR immersive teleoperation, and multi-robot cooperation. Researchers interested in AI for space robotics will find a young and vibrant team of over 23 members fostering a collaborative atmosphere (1 professor, 1 Research Scientist, 15 PhD students, 5 PostDocs, 1 Research assistant). SpaceR's state-of-the-art facilities include two physical laboratories, the LunaLab and Zero-G Lab, dedicated environments for researchers to test their results on advanced equipment.

For further information, you may check www.en.uni.lu/snt/research/spacer and www.spacer.lu

The candidate should develop the following tasks:

Research on RL for space Robotics and implement approaches in simulated and real robots

To support and lead top-10% journal publications submissions as first author and in collaboration with other PostDocs

(Co-)Lead RL research activities in the SpaceR team

Advise PhD students on RL

Support and/or lead project proposals

Lead project deliverables writing and submission

Support one or two courses on Space Robotics

Support Lab activities and experiments

For further information, please contact us at

Your profile...

PhD in Robotics and/or Artificial Intelligence with a focus on Reinforcement Learning

Documented research expertise in Artificial Intelligence and Robotics

Proven track record in publishing high-quality research outputs: At least three publications in top-tier venues: IROS, ICRA, CoRL, R-AL, TRO, TFR, etc

Excellent written and spoken communication skills in English

Commitment, teamwork and a critical mind

The ideal candidate should have experience in a number of the following topics:

Experience with Artificial Intelligence and deep learning concepts for robotics and process automation

Experience with Omniverse/IsaacSim/IsaacGym/IsaacLab

Experience setting up and operating ROS-compatible robotic systems

Knowledge of programming languages C++, python, and ROS framework

In return you will get...

Multilingual and international character. Modern institution with a personal atmosphere. Staff coming from 90 countries. Member of the "University of the Greater Region" (UniGR)

A modern and dynamic university. High-quality equipment. Close ties to the business world and to the Luxembourg labour market. A unique urban site with excellent infrastructure

A partner for society and industry. Cooperation with European institutions, innovative companies, the Financial Centre and with numerous non-academic partners such as ministries, local governments, associations, NGOs ...

How to apply...

Applications, written in English, should include:

Full CV, including list of publications and name (and email address, etc) of three referees

Transcript of all modules and results from university-level courses taken

Short motivation letter

Early application is highly encouraged, as the applications will be processed upon reception. To ensure full consideration candidates should apply by the 1st of April ONLINE formally through the HR system. Applications by Email will not be considered.

All qualified individuals are encouraged to apply. In line with our values, the University of Luxembourg promotes an inclusive culture. We encourage applications from individuals of all backgrounds and are dedicated to upholding equality and respect for our employees and students.

General information:

Contract Type: Fixed Term Contract 24 Month

Work Hours: Full Time 40.0 Hours per Week

Location: Kirchberg Campus

Internal Title: Postdoctoral researcher

The yearly gross salary for every Postdoctoral Researcher at the UL is EUR 83099 (full time).

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