THE LORRAINE UNIVERSITY IS RECRUITING
JUNIOR PROFESSORSHIP CHAIR

Present throughout Lorraine (the two metropolises of Metz and Nancy and 10 towns and conurbations in the region), the Lorraine University, which has been awarded the HR Excellence in Research (HRS4R), label since 2017, places its expertise at the service of knowledge production and sharing. Committed to raising the level of education of its citizens, it relies on an intensive research dynamic (I-Site Lorraine Université d'Excellence perpetuated in 2021), both fundamental and applied.

62000 students	**+ de 7100 employees**	**+ de 4000 research lecturer or lecturing and research personnel**	**60 laboratories and 43 training centers**	**A budget of nearly €682m**

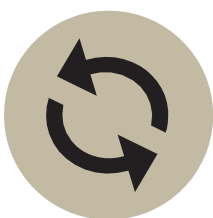|	
Decree n° 2021-1710 of 17 December 2021 relating to the junior professorship contract provided for by article L. 952-6-2 of the Education Code and Body in which the person concerned is destined to be appointed: University Professor.	
Decree n° 2021-1710 of 17 December 2021 relating to the junior professorship contract provided for by article L. 952-6-2 of the Education Code and by article L. 422-3 of the Research Code.	
Working time: 100%	CNU Section: 61 or 27
Publication profile (title of the contract and the position concerned): Reverse logistics: operational and environmental criteria	Starting date: no later than 12/31/2025
Department/University: UFR MIM	Location: Metz
Laboratory: LGIPM or LCOMS	Location: Metz

VALUES OF THE LORRAINE UNIVERSITY

universality	creativity	reflexivity	solidarity	responsability

Job profile and EURAXESS

Job profile (maximum two-line summary of the profile in English):

The research project aims to design, model, optimize and manage sustainable supply chains, while the training project aims to equip students with the advanced skills needed to implement these sustainable supply chains.

Euraxess research fields (see coding table in the annexed documents):

Computer science

Job profile

Nature and purpose of the research project: Logistics

Nature and purpose of the proposed teaching project: Logistics

Aassociated funding amount: 200000€

Anticipated contract duration: 5 years

Teaching profile: Logistics
Department/University: MIM

Keywords: Logistics, Artificial Intelligence, Computing, Control

Logistics teaching has been developing at UL for many years. This is particularly true for Mathematics, Computer Science, Mechanics and Control Training and Research Units (UFR MIM), located on the Metz technopole campus. These units offer bachelor's and master 's degrees in the field of logistics: a vocational degree in 'Logistics and Flow Management' COSLI (Design and Optimization of Logistics and Industrial Systems); a master's degree in 'Industrial Engineering' OPSyL (Organization and Management of Logistics Systems); a master's degree in 'Computer Science' ID (Business Intelligence). These courses aim to train managers with solid knowledge at the interface between decision sciences and artificial intelligence (modelling, optimization and decision support, analytical methods, etc.) and advanced skills for the modelling, design and efficient managing production systems and supply chains.

The objective of this CPJ will be to develop tools to ensure the reinforcement of skills and adaptability of human resources by creating a platform of pedagogical resources for logistics courses.

The research profile concerns logistics. This is a cross-disciplinary field that concentrates many research activities around optimization. Research will focus on the following themes

- design and management of logistics chains and resource pooling
- management of sustainable and reverse logistics chains (planning, scheduling, reliability, resilience, manufacturing, repackaging and transport)
- sustainable logistics through flow optimization for reverse logistics and symbiosis and remanufacturing strategies,
- modeling of complex problems including antagonistic optimization criteria (reliability, costs, quality of service, well-being, etc.),
- characterization of problem complexities,
- consideration of data in complex and varied contexts (uncertainties/determinism, dynamic/static context, online/offline context, etc.),
- algorithmic design and efficient models development in terms of computing time and quality, with the need for performance guarantees;

Research profile:
Laboratory name: LCOMS or LGIPM

Keywords: Logistics, Artificial Intelligence, Computer science, Control

Additional information

- Requirements for applicants:

  o Hold a doctorate or an equivalent degree (upon recognition by UL Scientific Committee).

- The list of supporting documents to be attached to the application:

Your application file, consisting of the application form entered online, must include the following items:
- An official identity document with a photography;
- A document certifying that you hold a PhD, or an equivalent degree (whose equivalence must be recognized by the University of Lorraine Scientific Committee);
- The PhD examination report, or a certificate from the institution stating that no examination report has been drawn up;
- An analytical presentation of the works, books, articles, achievements and activities related to the profile of the Junior Professorship Chair tenure-track position in question, mentioning those that the candidate intends to present at the audition;
- A copy of each of the works, books, articles and achievements mentioned in the analytical presentation and which the candidate intends to present at the audition, not exceeding six documents.

Administrative documents written in whole or in part in a foreign language must be accompanied by a translation into French, the conformity of which the candidate certifies on his or her honor. The translation of the analytical presentation is compulsory and the works, books, articles and achievements in a foreign language must be accompanied by a summary in French. Otherwise, the application will be declared inadmissible.

Candidates who are or have been for less than eighteen months a teacher-researcher at a level equivalent to that of the post to be filled, in a higher education institution in a country other than France, must indicate this status.

Applications must be submitted on the Galaxie platform (FIDIS module) according to the calendar available on the University of Lorraine website.
Any application incomplete by the above-mentioned deadline will be declared inadmissible.

Only those candidates who have been selected by the recruitment committee on the basis of their applications will be invited to the audition.

*When searching for positions, Junior Professorships will be distinguished from others by the recruitment article (CPJ).

How auditions are organized

- The audition of candidates by the selection committee may include a work placement (decree no. 84-431 of June 6, 1984), in the form of a lesson or research presentation seminar. This experience is not open to the public.

Professional situation:
☐ yes (with public audition ☐ yes ☐ no)   ☐ no

In the form of:
☐ of lesson(s)
☐ research presentation seminar
☐ meetings (with students or teachers/researchers/researchers of the research or teaching unit in which the post is open)

- The position for which you are applying is likely to be located in a "restricted area" within the meaning of article R 413-5-1 of the penal code. If this is the case, your appointment and/or assignment can only take place after authorization of access issued by the head of the establishment, in accordance with the provisions of article 20-4 of decree n°84-431 of 6 June 1984.

Joining the Lorraine University, means sharing it's values and benefiting from is working conditions

• **Our commitments, our values:** In 2016, the Lorraine University adopted a charter of values based on universality, creativity, reflexi- vity, solidarity and responsibility.

• **Our working conditions:** The Lorraine University has taken a number of steps to prevent psychosocial risks (appointing an occupational psychologist, setting up awareness-raising initiatives, introducing warning and listening systems). It was also a pioneer in the introduction of teleworking, which it continues to develop.

• **Dayli support:** Throughout your career at the Lorraine University, employees are supported by the institution in their professional lives (occupational health, disability). The university also offers its staff a range of assistance and support services designed to promote work-life balance and personal fulfilment. A social assistance service is also available to university staff to help them deal with difficult situations.

• **Equality – Diversity - Inclusion:** The Lorraine University Since 2015, the Group has developed a comprehensive equality - diversity - inclusion policy that goes beyond the framework of gender equality in the workplace, taking into account discrimination that goes beyond gender and adding six criteria: age, gender identity, sexual orientation, origin, religion and disability.

• **Attractiveness and cultural offering:** The Lorraine University offers a wide range of cultural, sporting and leisure activities to all its employees: more than 70 sporting activities are available, and there are venues dedicated to cultural activities (including the Espace Bernard-Marie Koltès - Conventional Stage of National Interest). Every year, more than 500 different cultural events are held throughout the region.

Department/University

Educational team: UFR MIM
URL Department: https://mim.univ-lorraine.fr
Place(s) of work: Metz
Name of Department Director: NAGIH Anass

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The Mathematics, Computer Science, Mechanics and Automatics Training and Research Unit (UFR MIM), created in 1985 and located on the Metz technopole campus since 2017, is a training component of the Science and Technology collegium of the University of Lorraine. It trains managers (master's degree) and middle managers (bachelor) in the fields of data sciences, digital engineering and engineering, more specifically in the following specializations: fundamental and applied mathematics and their interactions with economics and finance, business intelligence and artificial intelligence, human-machine interaction and software development, IT security, mechanics, especially digital mechanics, materials, civil engineering, industrial engineering, industrial hydraulics, logistics and transport.

Research Laboratory

Place(s) of work: Metz

Name Laboratory Director: Maryam Siadat (LCOMS) and Sofiene Dellagi (LGIPM)

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URL Laboratory: https://lcoms.univ-lorraine.fr/ andt https://lgipm.univ-lorraine.fr/

LGIPM develops solutions to multidisciplinary problems in the context of Industry 4.0/5.0 and in the fields of logistics, reliability, resilience and maintenance of reconfigurable networked systems, remanufacturing and energy efficiency. At LGIPM, the GOAL and SYLEE teams are working on logistics networks, integrating artificial intelligence and taking account of societal and environmental constraints.

LCOMS develops multidisciplinary research. Its teams (AGAPE, DAVIS, MPL, Optimal) are particularly interested in performance-guaranteed algorithms for NP-hard problems, mathematical programming, global optimization with applications in the industry of the future, data analysis and visualization, scheduling and green logistics, and are also conducting AI projects.

To find out more about the work, please contact:

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