

## 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 : 61-27
Publication profile (title of the contract and the position concerned) : Robotics for a sustainable and agile industry	Starting date: no later than 12/31/2024
Department/University : ENIM	Location: Metz
Laboratory : LCFC/ LORIA	Location: Metz/Nancy

## VALUES OF THE LORRAINE UNIVERSITY



universality



créativité



réflexivité



solidarity



responsability



## Job profile and EURAXESS

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

The University of Lorraine is recruiting an early-career researcher with exceptional potential in agile and sustainable industrial robotics, focusing on AI integration and collaboration with LCFC and Loria labs, using ENIM and LCFC infrastructure.

The position requires innovation in robotics research, significant publications, grant achievements, and active scientific community involvement, aiming to develop intelligent, efficient, safe, and sustainable robots through interdisciplinary and international research collaboration.

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

Industrial engineering, Systems engineering, Electrical engineering, Global change

## Job profile

### Teaching profile:

Nature and purpose of the research project:

The University of Lorraine is hiring an early-career researcher with at least 3 years of postdoctoral experience in robotics, focusing on themes relevant to the LCFC laboratory and the LORIA laboratory, to lead an interdisciplinary and international research program in robotics and mechatronics, targeting advancements in production system robotization, collaborative and humanoid robotics, and AI-assisted design, with the goal of creating efficient, safe, and sustainable robots.

Nature and purpose of the proposed teaching project:

The position involves 64 hours of teaching in ENIM's Department of Electronics, Electrical Engineering, and Automatic Control, focusing on robotics and mechatronics integrated with AI as part of the final study cycle and KIMP master's, in collaboration with ENSAM, with the opportunity to develop a new course based on the candidate's research expertise.

Partners : LCFC and Loria

Associated funding amount : 200 000 euros

Anticipated contract duration: 5 years

## Teaching profile:

The teaching activity associated with this position includes 64 hours of courses in the Department of Electronics, Electrical Engineering, and Automatic Control at ENIM. The courses will be delivered as part of the final study cycle and the KIMP master's program, in collaboration with ENSAM. The teaching will focus on topics related to robotics and mechatronics, emphasizing their integration with artificial intelligence, through lectures. The selected individual, depending on their expertise and research, may also design and introduce a new course corresponding to the research focus.

Department/University : ENIM

Keywords : Robotics, Mechatronics, Artificial Intelligence

## Research profile:

The University of Lorraine is looking to hire an early-career researcher, with at least 2 years of postdoctoral experience, who demonstrates exceptional research potential in the field of agile and sustainable industrial robotics. This potential should be directed towards industrial robotics and the integration of artificial intelligence in connection with the themes supported by the LCFC laboratory and the LORIA laboratory, leveraging the infrastructure of ENIM and LCFC. The selected candidate will demonstrate an ability to innovate in the field of robotics by developing a large-scale interdisciplinary research program with international scope in terms of mechatronic design and robot control, among the following themes:

- Robotization of production systems,
- Artificial intelligence for robotics,
- Collaborative robotics,
- Humanoid robotics,
- Industrial exoskeletons,
- Human-Robot interaction,
- Robotic teleoperation,
- AI-assisted mechatronic design.

Commitment to scientific excellence is expected, manifested by significant outcomes such as publications in rank A journals and applications for grants like the ERC, as well as active participation in the scientific life of the Lorraine site. The goal is to create intelligent, efficient, safe, and environmentally friendly robots, in alignment with the current and future challenges of the industry. Access to the research infrastructure of ENIM and LCFC will provide the recruited person with resources to successfully carry out their research projects, thus promoting innovation and interdisciplinary collaboration within the university.

Laboratory name: LCFC and Loria

Keywords: Industrial Robotics, Artificial Intelligence, Mechatronic Design and Engineering

## Additional information

[www.univ-lorraine.fr](http://www.univ-lorraine.fr)



- Requirements for applicants:
  - Hold a doctorate or an equivalent degree (upon recognition by UL Scientific Committee).

In addition, it is recommended:

- To have completed at least 3 years of scientific activity after the PhD thesis.
  - For holders of a doctorate in France, to have a significant experience of mobility abroad (at least two years).
- 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

[www.univ-lorraine.fr](http://www.univ-lorraine.fr)



- **Our commitments, our values** : In 2016, the Lorraine University adopted a charter of values based on universality, creativity, reflexivity, 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 : ENIM

URL Department: <https://enim.univ-lorraine.fr/>

Place(s) of work : Metz

Name of Department Director : Pr. Pierre CHEVRIER

Tél. of Department Director : (+33 )03-7274-8626

Email of Department Director : [pierre.chevier@univ-lorraine.fr](mailto:pierre.chevier@univ-lorraine.fr)

## Research Laboratory

Place(s) of work : Metz

Name Laboratory Director : Pr. Ali SIADAT

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Email Laboratory Director: [ali.siadat@ensam.eu](mailto:ali.siadat@ensam.eu)

URL Laboratory:

Place(s) of work : Nancy

Name Laboratory Director : Pr. Yannick TOUSSAINT

Tél. Laboratory Director :

Email Laboratory Director: [Yannick.Toussaint@loria.fr](mailto:Yannick.Toussaint@loria.fr)

URL Laboratory: <https://www.loria.fr/>

## To find out more about the work, please contact :

Name/first name : Pr RAHARIJAONA Thibaut

The role : Full Professor

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Name/first name : Dr. MOURET Jean-Baptiste

The role : Director of research

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