

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 : 62
Publication profile (title of the contract and the position concerned) : Electrochemical and/or hydrometallurgical processes for metal recycling	Starting date: no later than 12/31/2024
Department/University : ENSIC/EEIGM	Location: Nancy (Grandville and Meurthe-Canal campuses)
Laboratory: Laboratory Reactions and Chemical Engineering (LRGP)	Location: Nancy (Grandville campus)

VALUES OF THE LORRAINE UNIVERSITY



universality



creativity



reflexivity



solidarity



responsibility

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Job profile and EURAXESS

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

Teaching and research in chemical engineering, with a preferred focus on electrochemical and/or hydrometallurgical processes. Open to candidates with strong potential in process/chemical engineering in any of the LRGP's areas of expertise

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

Engineering/Chemical engineering

Job profile

Nature and purpose of the research project: Electrochemical processes and/or hydrometallurgical processes and/or chemical engineering in the context of LRGP themes

Nature and purpose of the proposed teaching project: Train future managers in the field of chemical engineering, preferably (but not only) focusing on electrochemical and/or hydrometallurgical processes

Anticipated contract duration: 5 years

Teaching profile:

École Nationale Supérieure des Industries Chimiques (ENSIC) offers a three-year degree course (L3 to M2) in chemical/process engineering, combining scientific and technical expertise with managerial and project management skills. Graduates are leaders in industrial transition, responding to the challenges of sustainable development and corporate social responsibility.

The European School of Materials Engineering (EEIGM) offers a five-year programme (levels L1 to M2) to train general engineers in the field of materials, as students or apprentices, with international recruitment, as part of the EEIGM Consortium, which brings together seven European universities. The EEIGM trains quadrilingual, mobile engineers who master the entire life cycle of materials (polymers, metals, glass, ceramics and composites).

The Chairholder will teach courses, seminars and projects at the ENSIC and EEIGM, helping to train future engineers in the fields of chemical engineering, if possible electrochemical and/or hydrometallurgical, with a focus on recycling and/or energy, to meet the growing demand from industry.

Teaching at ENSIC could include an introduction to electrochemistry in conjunction with the physical chemistry courses, and a course on electrochemical processes with examples of applications (recycling processes, energy processes, valorization of decarbonized hydrogen, etc.). In addition, the ENSIC is setting up an international master's degree in sustainable processes, and the person recruited will be able to participate in this dynamic.

The teaching at the EEIGM will come under the "chemical engineering" discipline and could be part of one of the new courses created by the school since 2023, on materials for energy, mobility and health). For example, they could involve recycling processes in these fields, whether for metals (hydrometallurgy), polymers or complex assemblies of materials. He/she may also be involved in assessing the durability of materials and processes, in particular by life cycle analysis.

The person recruited will be able to take part in other Erasmus Mundus Masters modules in which these schools play a major role (DENSYS and AMASE Masters).

He/she will be involved in innovative projects within the students' curricula and will participate in the UL's dynamic in specific research training (ORION project "Oser la Recherche durant la formation"), and in the dynamic of the EURECA-PRO European University, of which

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Department/University: ENSIC and EEIGM

Keywords: process engineering, recycling, electrochemical engineering and/or energy and/or materials

Research profile:

The LRGP is a joint CNRS-Université de Lorraine research unit whose general objective is to study processes for transforming matter and energy, either chemically or biologically. The LRGP develops the scientific and technological knowledge needed to design, study, manage and optimise complex processes, integrating changes in scale from the atom (molecular chemistry) to the industrial site. To achieve this, it brings together specialists from different disciplines: process engineering, thermodynamics, chemistry, biology, etc. The LRGP is resolutely committed to themes that concern industry and society, in the context of energy and ecological transition and the circular economy. It is particularly interested in energy and water processes, decarbonisation, recycling of metals and polymers, pollution treatment, process safety, product engineering and biomolecules.

The laboratory has up to 300 members, including around 90 teacher-researchers, 15 CNRS researchers, 45 support staff, around 100 PhD students, post-doctoral researchers, researchers on contract and trainees. It is organised into five research areas and six support services, and is spread over three sites in Greater Nancy (Grandville campus, Brabois ingénierie and IUT Nancy Brabois).

The LRGP is recognised academically in France and abroad (IUF, ERC, PEPR, ANR, European and international projects). The laboratory, which is a member of the Carnot Institute ICEEL, also maintains strong partnerships with companies, and has four joint teams or laboratories. It is committed to academic excellence and promotes innovation (patents, start-ups). The Chairholder will carry out his/her research activities at the LRGP (presented later in the document).

The candidate's profile will preferably be in the field of electrochemical and/or hydrometallurgical processes, to complement the teams active in one or other of these areas. He/she will have to develop a project in interaction with teams specialising in electrochemical processes for energy and/or hydrometallurgical processes for metal recycling. He/she will benefit from a favourable environment, given the relations established with other laboratories at the University of Lorraine in this field (LabEx Ressources 21), and bearing in mind that the LRGP is a member of the GDR Prométhée.

The post is also open to any candidate with research experience in one of the laboratory's themes, in the field of process engineering, in line with the disciplines he/she will be teaching. He/she is invited to propose any research project that fits into one of the laboratory's areas of research, or between areas.

He/she will be autonomous in experimentation and modelling and will have the capacity to create new activities, international academic partnerships and industrial partnerships.

Laboratory name: Laboratoire Réactions et Génie des Procédés (Laboratory Reactions and Chemical Engineering) LRGP

Keywords: chemical engineering, electrochemical and/or hydrometallurgical processes, recycling and/or energy

Additional information

- 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;

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- 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 its working conditions

- **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.

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Department/University

Educational team: ENSIC teaching team, I2C course and Master's degree in Process and Bio-Process Engineering

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

Place(s) of work: ENSIC, 1 rue Grandville, Nancy (FR)

Name of ENSIC Director: Alain DURAND Tel: +33 372 743 602

Email Director: alain.durand@univ-lorraine.fr

ENSIC Deputy Director: Eric SCHAER Tel: +33 372 743 879

Email: eric.schaer@univ-lorraine.fr

ENSIC I2C Director of Studies: Jean-François PORTHA (jean-francois.portha@univ-lorraine.fr)

GPBP Master's degree coordinator: Laurent PERRIN (Laurent.perrin@univ-lorraine.fr)

Teaching team: EEIGM teaching team

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

Location(s): EEIGM, 6 rue Bastien Lepage, Nancy

Name of EEIGM Director: Yves GRANJON Tel: +33 372 743 900

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Director of Studies at the EEIGM: Valérie VITZTHUM Tel: +33 372 743 900

Email: valerie.vitzthum@univ-lorraine.fr

Research Laboratory

Place(s) of work: LRGP, Campus Grandville, 1 rue Grandville, 5400 Nancy (FR)

Name Laboratory Director: Marie-Odile SIMONNOT

Tél. Laboratory Director: +33 372 743 750

Email Laboratory Director: marie-odile.simonnot@univ-lorraine.fr

URL Laboratory: <https://lrgp-nancy.cnrs.fr> (site under reconstruction, see also <https://www.linkedin.com/company/lrgp-nancy/>)

To find out more about the work, please contact:

Name/first name: Isabelle CHEVALOT

The role : Deputy director of LRGP

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