

## 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 : 68
Publication profile : Understanding and controlling genotype-microbiota interactions to enhance crop adaptation in the context of climate change	Starting date: no later than 12/31/2025
Department/University : ENSAIA	Location: Site Brabois, ENSAIA, Vandoeuvre les Nancy
Laboratory : UMR UL/INRAE 1131 LAE Nancy-Colmar	Location: Site Brabois, ENSAIA, Vandoeuvre les Nancy

## VALUES OF THE LORRAINE UNIVERSITY



universality



créativité



réflexivité



solidarity



responsability

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## Job profile and EURAXESS

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

Study of the holobiont, in order to better understand the molecular determinants of plant microbiota assembly focusing on microbial communities of the rhizobiome and metabolites enable the plant to shape its microbiota in response to biotic and abiotic stress, and thus improve its tolerance.

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

Plant ecophysiology  
Microbial ecology

## Job profile

Nature and purpose of the research project :

From an academic point of view, the project aims to gain a better understanding of the molecular determinants of microbiota assembly in cultivated plants. These insights should help to meet the challenges of plant breeding to strengthen plant tolerance strategies in the context of climate change.

Nature and purpose of teaching project: The aim is to introduce the holobionte conceptual framework into the training of agricultural engineers, and to apply it to possible strategies for plant breeding programs integrating the microbiota.

Partners: Private partners from the agri-supply sector/agricultural cooperatives and academic partners.

Associated funding amount :

Anticipated contract duration: 5 years

### Teaching profile:

Teaching will be carried out in the field of genetics and plant improvement at ENSAIA. Despite the existence of a number of local skills, there is still a considerable lack of teaching on the understanding and management of plant-microbiota interactions. Until now, genetic selection has been approached without mentioning the influence of the microbiota on the phenotypic characteristics of plants. The aim is to introduce the holobiont conceptual framework into the training of agricultural engineers, and to apply it to possible strategies for plant breeding programs integrating the microbiota. The courses may involve players from the socio-economic world, notably the seed industry, thus strengthening the interaction between training and research.

Department/University : ENSAIA

Keywords : Plant ecophysiology, genetics, holobionte



## Research profile:

The conceptual framework of the research is related to ecophysiology of plant-microbiote interactions. The project aims to study the relationships between the structure and diversity of microbial communities and plant metabolism, in order to better understand the molecular determinants of plant microbiota assembly. Interactions between microbial communities of the rhizobiome (rhizosphere and endosphere) and the plant are regulated by a diversity of metabolites acting as signal molecules. In particular, these signals can enable the plant to shape its microbiota in response to stress, and thus improve its tolerance to these constraints. The junior professor recruited will focus on the metabolic pathways involved in plant tolerance to biotic (regulation of phytopathogenic fungi) and abiotic stresses (water stress and nutrition).

Laboratory name: UMR Laboratoire Agronomie et Environnement

Keywords: metabolomic, microbial ecology, endophytes

## Additional information

- Requirements for applicants:
  - 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

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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.

## Department/University

Educational team : Sciences végétales

URL Department:

Place(s) of work : ENSAIA, Site de Brabois, Vandoeuvre-lès-Nancy

Name of Department Director : Guido Rychen

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## Research Laboratory

Place(s) of work : ENSAIA, Site de Brabois, Vandoeuvre-lès-Nancy

Name Laboratory Director : Séverine Piutti

Tél. Laboratory Director :

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URL Laboratory: **UMR 1121**

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

Name/first name

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The role : assistant  
director

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