



Postdoc positions available at Université de Lorraine

Lorraine Université d'Excellence (LUE) is an initiative carried by Université de Lorraine, in association with CNRS, Inria, Inserm, INRAE, the Nancy campus of AgroParisTech, and Georgia-Tech Europe, and funded by the France 2030 program of investments for the future. LUE's ambition over the next 10 years is to assert itself as a major world-class research university, with a core positioning in **systemic engineering for a healthy planet**.

To achieve this ambition, a major lever is to develop a sustainable interdisciplinary momentum that will enable the academic site to position itself on major societal and socio-economic challenges, both in research and in education. For that purpose, we will fund a few major **interdisciplinary programs and projects**; they will propose global directions to answer the following six major challenges:

- The evolution of materials issues in the 21st century (from resource issues to those related to the circular economy, via metallurgy and new materials)
- The ecological transition (One Earth)
- The energy transition
- The digital transition of industry and society
- The global challenges of health in the 21st century, including the "One Health" systemic approach
- Transitions in society

At this moment, a number of major interdisciplinary programs are currently emerging, led by groups of scientists from the Lorraine site, as well as smaller and more narrowly targeted projects, known as "IMPACT projects". For your information, here are the working titles of the proposals currently under consideration, and a contact person who can give more information on the proposal, if needed:

- Advanced Research and Education on the biology, the Ecology, the Management and the biomonitoring of forest Ecosystems in a changing world – contact person: Stéphane Uroz stephane.uroz@inrae.fr
- Bioeconomy, Biomolecules Science and Engineering – contact person: Stéphane Desobry Stephane.Desobry@univ-lorraine.fr
- Earth and Planetary Habitability – contact person: Simon Devin simon.devin@univ-lorraine.fr
- Industry 4.0 – contact person: Hind El-Haouzi hind.el-haouzi@univ-lorraine.fr
- Materials and Physics at the Ultimate Scale – contact person: Stéphane Mangin stephane.mangin@univ-lorraine.fr
- Metallurgy – Sustainable Development & Innovation to Conquer Industrial and technological Sovereignty – contact person: Benoit Appolaire benoit.appolaire@univ-lorraine.fr
- Natural Language Processing & Humanities – contact person: Maxime Amblard maxime.amblard@univ-lorraine.fr
- Sustainable supply of critical metals for energy and digital transitions – contact person: Alexandre Chagnes alexandre.chagnes@univ-lorraine.fr
- Energy transition and decarbonization of the territories – contact person: Fabrice Lemoine fabrice.lemoine@univ-lorraine.fr
- Comorbidities, Trajectories of lives and longevity – contact person: David Meyre david.meyre@univ-lorraine.fr
- Fight against antibioresistance – contact person: Sophie Payot Lacroix sophie.payot@univ-lorraine.fr



- **Metamaterials for Engineering** – contact person: Badreddine Assouar badreddine.assouar@univ-lorraine.fr

This call plans to recruit **up to 10** international post-docs who can contribute to one or other of these projects.

The post-doctoral position should be for **24 to 30 months**, and should bring a new and original momentum to the site, complementing existing strengths and enriching one of the existing emerging projects with highly original and exciting research objectives.

The aim of this call is to welcome young researchers who can contribute to one or other of the above projects in an original, and even unexpected, way in relation to the current mapping of skills present on the Lorraine site. There is therefore no predefinition of the host project, nor have the host projects predefined the topics on which they would be willing to host a postdoc.

The selection panel will take the following factors into account:

- Scientific excellence of the applicant
- Originality and relevance of the proposed scientific project
- Contribution of the proposed project to one or several of the existing or emerging projects.
- Compatibility of the candidate and his/her project with the site's research structures – in balance with the previous point, we still wish to recruit post-docs who fit naturally into an adequate research environment. Candidates are not, however, asked to pre-identify one single host research structure, although they are not forbidden to mention any links or knowledge they may have of the site's research groups.

Salary : from 2 271€ to 2 900€ (Gross) / month

Successful candidates will be granted operating credits in addition to their salary. They may also be offered the opportunity to contribute to educational modules linked to the interdisciplinary topic to which they are contributing.

Application

Applications should be submitted to <https://enquetes.univ-lorraine.fr/index.php/573736?lang=en> and should include the following information:

- CV with list of publications and description of involvement in research projects
- Proposed scientific project for the stay at Université de Lorraine
- When appropriate (not a prerequisite): existing contacts and collaborations with Université de Lorraine researchers
- Persons who can be contacted for additional information / recommendation letters



Process

- Application before March 15, 2024
- The applications will be evaluated by a Selection Committee with representatives from the Scientific Board (Conseil Scientifique) of Université de Lorraine, members of the internal advisory committee for LUE, and representatives from the LUE partner organizations. The Selection Committee will check the adequateness of the proposed project to one or several projects being matured, with the contact persons for the emerging projects (see above). It will also check the compatibility of the applicant with one of the research structures of the academic site.
- The Selection Committee will establish a short-list of applicants to be auditioned, considering both the quality of the CV and these elements of adequateness to the call. It will proceed with auditions of the candidates in the short-list. The auditions will be conducted through online videoconferencing.
- At the end of this process, the Selection Committee will establish a ranked list of applicants which can be recruited. This ranking will be established by the end of June 2024.
- Recruitment will follow this ranking, considering the final details of available budget.