Post Doc - Research profile

ANR Project VOLCOM

POSITION DETAILS
- Type: Post Doc
- Workload : 100%
-Start date : 01/01/2026
-The contract is for 36 months.
- Décret no 2021-1450 du 4 novembre 2021 relatif au contrat post-doctoral de droit public prévu par l'article L. 412-4 du code de la recherche
-public concerned : young PhDs recruited no later than three years after obtaining their doctorate
Affiliation : Laboratoire de Biotechnologies Végétales appliquées aux plantes aromatiques et médicinales (LBVPAM_UMR 5079), Université Jean Monnet (UJM),
St. Étienne, France
https://lbvpam.univ-st-etienne.fr/en/index.html

KEYWORDS: Plant VOCs, Terpenes, Plant Communication

Contact for HR:
Please sent your application to drh-enseignants@univ-st-etienne.fr
before the deadline **11 of December, 2025 – 12h (PM Paris time)**, it should include **into a single PDF :**

- **Cover letter (maximum 2 pages) presenting past research and experience, and how these will be useful to the E2F project;**
- **Detailled CV (including personal information);**
- **Diploma of PhD degree (if the thesis has already been defended);**
- **Thesis defense report, or equivalent (if the thesis has already been defended);**

Contact for the Laboratory: benoit.boachon@univ-st-etienne.fr

WORKING ENVIRONMENT & CONTEXT
Jean Monnet University is a multidisciplinary university with more than 20,000 students across 5 campuses in Saint-Étienne and Roanne.
It offers programs in science, technology, health, humanities and social sciences, law, economics, management, arts, literature and languages.
With a strong international outlook, UJM offers recognized expertise in supporting student success and professional integration, within a vibrant and dynamic student life environment.
Thanks to high-level training, cutting-edge research, international attractiveness, and the modernization of its campuses, the university is evolving according to a responsible and human-centered institutional project.

LABORATORY PRESENTATION

The LBVpam laboratory: The LBVpam laboratory (CNRS UMR 5079: Laboratory of Plant Biotechnology applied to aromatic and medicinal plants) of the University of Saint-Etienne studies plant volatile organic compounds (VOCs) from their biosynthesis, transport, role in plant communication and ecological function with strong publication records (https://lbvpam.univ-st-etienne.fr/en/index.html).

The proposed project: The project, based on national and international collaboration between LBVpam (Saint-Etienne, Dr Benoît Boachon), IBMP (Strasbourg, Dr Jean-Etienne Bassard) and Sophy (ICN, Strasbourg, Dr Laurence Miesch) is founded by ANR and aims at investigating VOC Communication in Plant from biosynthesis to perception. Our collaborators also include Pr. Natalia Dudareva from Purdue University (USA). Plants emit a diversity of VOCs that are important for reproduction and defense. Over the past decades, significant progresses have been made in elucidating the biosynthesis, transport across the cell and released into the atmosphere of these VOCs, however the mechanisms by which plants communicate by VOCs remain largely unknown.

THE POSITION

We offer a one-year fellowship starting in January 2026 or as soon as possible thereafter, which can be extended for up to three years. The eligible candidate will work in a modern lab and will interact with our national and international partners.

ACTIVITIES

The candidate will investigate the mechanism by which floral organs of Petunia communicate with each other's using terpenoid VOCs and their derivatives. The candidates will employ cutting-edge metabolomic, transcriptomic, protein modeling, physiological and biochemical characterization approaches to identify and decipher the biochemical pathway of the terpenoid ligand perceived by the identified receptor6-7 and characterize its in planta activity.

PROFESSIONAL SKILLS AND KNOWLEDGE

PhD in plant molecular biology, plant biochemistry or plant bioinformatic with a focus on plant specialized metabolism and with strong publications record. General skills in molecular biology, biochemistry and plant specialized metabolism are mandatory, experience in terpenes (VOCs and soluble), metabolomic, bioinformatic and protein modelling are a plus.

JOINING JEAN MONNET UNIVERSITY MEANS:

- ✓ Working in an institution committed to strong social responsibility, with attention to quality of life and working conditions.
- ✓ Continuous career development and training opportunities.
- ✓ Work–life balance with 49 annual leave days, 2 teleworking days per week, 10 additional telework days per year, and flexible scheduling (including the possibility of 4.5-day weeks).
- ✓ Access to a wide range of career paths, mobility opportunities, and professional development.
- ✓ Contributing to public service (education and research) in direct contact with students.
- ✓ Enjoying access to numerous cultural and sports facilities.