

**Recrutement prévu dans le cadre du contrat recherche
ANR DARK&STRONG**

Job title	Post-doc in soil microbiology (ANR PRCI-Franco-Allemand DARK&STRONG)
Ref	offreEmploi_2024.04_postdoc_ANR DARK&STRONG
Job type (PhD, Post-doc, Engineer)	Post-doc
Contract duration (months)	12 months (renewable for a similar period)
Salary	2000-2200 € net salary
Qualifications (Master degree, PhD...)	Ph-D in microbiology / plant biology
Job hours (full time/ part time)	Full time
Employer	UBFC – Université Bourgogne Franche-Comté
Host Laboratory	Laboratory Chrono-environnement
URL Host Laboratory	https://chrono-environnement.univ-fcomte.fr/?lang=en
Address Host Laboratory	Université de Bourgogne Franche-Comté UMR 6249 Laboratoire Chrono-environnement Pôle Universitaire du Pays de Montbéliard 4 place Tharradin, 25 211 MONTBELIARD
Job description	<p>The postdoctoral project will be part of the transdisciplinary research consortium (2024-2027). This EU collaborative project involves several partner laboratories and proposes to better understand the melanization process in a model DSE species (<i>Leptodontidium</i> sp.) and what role high melanization plays in stress tolerance and root colonization of host plants. The implementation of DARK&STRONG relies on four specific objectives, detailed below.</p> <ul style="list-style-type: none"> • The first objective (developed in WP1) is to produce new chemical and biological resources allowing further comparison of strains with contrasted levels of melanization. • The second objective is to study the genomic landscape of melanogenic genes in DSE and to study their regulation in <i>Leptodontidium</i> sp. (WP2).

	<ul style="list-style-type: none"> • The third objective (developed in WP3) is to study the impact of melanization on cell wall physico-chemical properties and composition and the role of melanin in responses to abiotic and biotic stress. • The fourth objective is to decipher the impact of high melanization on the capacity of <i>Leptodontidium</i> sp. hyphae to colonize roots of representative crops, to compete towards other rhizospheric and endophytic microorganisms, and to study its impact on plant physiology under stress (WP4).
Supervisor(s)	CHALOT Michel michel.chalot@univ-fcomte.fr ZHOU Jun jun.zhou@univ-fcomte.fr
Candidate profile	<p>The following skills are required:</p> <ol style="list-style-type: none"> 1) Molecular biology / biochemistry / microbiology : Candidates should possess a degree in biology, microbiology, environmental sciences, together with at least 2-3 years job-related experience (inc. Ph-D) on soil microbiology. Specific skills are required : construction of overexpressing lines of our genes of interest (GOI) as well as site-directed mutants by CRISPR/Cas9 ; phenotypic characterization (RT-qPCR); omics approaches (RNAseq, proteomics and untargeted metabolomics) 2) Communication / dissemination : Candidates are expected i) to lead and contribute to scientific publications, policy briefs and technical reports that require clear, well-structured texts. In this case, a high level of written and oral English is required; ii) to organize, plan and lead scientific meetings with European partners (held in English)
Keywords	Fungal endophytes, molecular screening , genetic engineering, melanin
Application deadline	31/04/2024
Starting Job	01/06/2024

<p>Application <i>Depending on the type of position</i></p>	<p><i>Post-doc position</i></p> <p><i>Please send the following documents (all in one PDF file) by e-mail to michel.chalot@univ-fcomte.fr :</i></p> <ol style="list-style-type: none"><i>1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed.</i><i>2) For non-EU candidates: Copy of your passport page where your photo is printed.</i><i>3) Curriculum Vitae (may include hyperlinks to your ResearchID, Research Gate Google Scholar accounts).</i><i>4) Detailed list of publications (may include hyperlinks to DOI of publications).</i><i>5) Letter of motivation relatively to the position (Cover Letter) in which applicants describe themselves and their contributions to previous research projects (maximum 2 pages)</i><i>6) Copy of your PhD degree if already available.</i><i>7) Coordinates of reference persons (maximum 3, at least your master thesis supervisor): Title, Name, organization, e-mail.</i> <p><i>If you have questions regarding the application, please contact the supervisors.</i></p>
--	--