



Post-Doctoral researcher position in plant genomics and development

About the job

A post-doctoral researcher position (fixed term of 2 years with possibility of extension up to 4 years; salary according to experience) is available at the Plant Reproduction and Development (RDP) laboratory (ENS Lyon, France, in the context of the recently granted **ERC project TEMPO** (“How plant cells set the tempo of rhythmic shoot construction”).

The ERC project TEMPO, headed by Teva Vernoux, aims to combine cutting-edge live-imaging, synthetic biology and computational modeling with optogenetics and single-cell genomics to explore how temporal information provided by the plant hormone auxin controls the temporality of organ initiation and acts across scales to regulate rhythmicity of organogenesis at the shoot apical meristem. To uncover how auxin temporal information establishes the tempo of shoot construction, **the researcher to be employed will focus on using single cell omics approaches and developing innovative genomics tools to explore functionally how auxin temporal information drives transcriptional states at single cell resolution during organogenesis** in the shoot. The project will require to establish and maintain strong scientific interactions with the other persons that will be working on the TEMPO project, as well as with external collaborators.

The researcher to be employed will join the SIGNAL group (<https://www.ens-lyon.fr/RDP/signalisation-hormonale-et-developpement/>) in the RDP laboratory. The RDP laboratory is a world-leading research center with eight research groups working on plant development and quantitative biology. The SIGNAL group and the laboratory offer a highly stimulating international and interdisciplinary environment with expertise ranging from molecular genetics, genomics, cell biology to biophysics, mathematics and computational modeling. The laboratory is located in the ENS de Lyon elite University in the vibrant city of Lyon in the south of France.

Required skills

We are seeking outstanding and highly-motivated candidates. They must hold a PhD degree, have a strong interest in developmental biology and a strong background in molecular genetics, molecular biology and genomics, with preferably a solid experience in single cell/single nucleus omics approaches. A good knowledge in bioinformatics and statistical analysis is also expected.

Candidates will also have excellent communication skills (talks and publications), be creative, organized and able to work independently. They will have a proven ability to solve pro-actively scientific problems, to critically discuss experimental results and hypotheses. They will be team players, eager to collaborate and to contribute to joint projects with colleagues with different scientific backgrounds (biologists, bioinformaticians, computer scientists). Proficiency in English is required.

Starting date can be as soon as May 1st 2024 but is flexible.

Enquiries can be made by email to teva.vernoux@ens-lyon.fr

To apply, please send to teva.vernoux@ens-lyon.fr and as a single pdf file: a CV, a motivation letter explaining your interest in and qualification for the position, and the contact details of 2-3 references.