



23-12-2022

Job Offer: **Scientific Software Developer**

Where

Comparative Genomics and Metagenomics lab at [CBGP](#) (Madrid, Spain)

About the Institute

The Centre for Plant Genomics and Biotechnology (CBGP) is a joint (UPM-INIA) research institute of excellence located at the Montegancedo International Campus in Madrid (Spain). Research activities at the CBGP are focused on plant biology and associated microorganisms. CBGP has relevant educational and training roles for Bachelor, Master and PhD students, and technicians, and has contributed to boost the scientific career and leadership of young scientists.

Work Description

The selected candidate will work in the context of the project "ETE Toolkit:Enabling large scale phylogenomic analysis & visualization (EOSS-5)" to enable easy-to-use interactive analysis and exploration of phylogenetic data at the genomics and metagenomics scale, funded by the CZI Foundation. ETE is a Python software that provides a comprehensive API to handle phylogenetic results and to integrate them into the scientific Python ecosystem (e.g. Jupyter notebooks). This includes a fully-featured system for programmatic visualization of hierarchical trees that complements other Python libraries such as matplotlib, plotly or seaborn.

Planned tasks include: Improving visualization capabilities of ETE4; developing a collection of Python scripts for microbiome analysis, phylogenetic reconstruction using single cell data; writing teaching materials and documentation; and general code optimization.

Requirements:

- Degree in Life or Computational Sciences
- Senior Python programming
- Experience scientific software development.
- Experience with computing clusters
- Previous experience with ETE development will be highly valued.
- PhD in a related field will be highly valued.

Deadline for applications: January 10th, 2023

Estimated starting date: Feb 2023

Duration: ~2 years

Salary will be according to experience and UPM standards

Application process: Send CV and contact details of two referees to j.huerta@csic.es