

POST-DOCTORAL RESEARCH ASSOCIATE ON PLANT-SOIL INTERACTIONS (ref. 16-006-03589)

CREAF needs to incorporate a post-doc profile to the project SYNERGY GRANT - IMBALANCE (ERC-2013-SyG 610028-IMBALANCE-P, funded by the European Commission). The contract is expected to start in January 2017, and will finish at the end of the tasks required for the project.

TASKS

- Design, implementation and coordination of field and greenhouse experiments to study effects of nutrient imbalance (mostly N and P) on plant soil interactions.
- Soil microbial community analyses (including DNA extractions and PLFA analysis).
- Rhizosphere analyses (including of root exudates).
- Data processing and statistical analysis.
- Reporting and communication the research outcomes in the form of scientific papers and through outreach activities.

REQUIREMENTS

- Degree in Biology.
- PhD in plant or soil ecology.
- Demonstrable experience of more than 5 years of experimental design and implementation of plant ecology studies in a range of different systems, including field, greenhouse and controlled environments.
- Demonstrable experience of measurement of root exudation and soil community parameters.
- Capacity for teamwork.
- Advanced knowledge of data processing and statistical analysis, using the R statistical package.
- Spanish and English spoken and written correctly.

ASSESSABLE CONDITIONS

- Post-doctoral experience in plant and soil ecology.
- Demonstrable knowledge of plant-soil interactions, including latest methods and techniques.
- Previous experience measuring rhizosphere processes (e.g., root exudation).
- Experience with molecular methods for characterising soil biodiversity.
- Involvement growing and carrying out experiments with Mediterranean tree species.
- Capacity to publish in high impact journals.
- Knowledge of Catalan language.

SELECTION PROCESS AND CRITERIA

The selection process is led by the Main Researcher of the project, and will be overseen by the Management Office and the Human Resources Area of CREAF. This process consists of:

1. Preselection: **candidates should send a CV and a cover letter (max. 500 words) to laboral@creaf.uab.cat until 9 January 2017 at 14:00 h., indicating the reference code of the job offer.**
2. Evaluation of candidates by scores based on objective criteria.
3. Final decision: in case of finding the right person, this will be formally communicated to the chosen candidate.