

Forest Science and Technology Centre of Catalonia (CTFC) is a research centre affiliated with the Generalitat de Catalunya (the Catalan government), and it reports to the Ministry responsible for forest issues.

CTFC is a CERCA centre and a government accredited TECNIO agent (developer of public technology).

It was granted a 'Human Resources Excellence in Research' award by the European Commission, recognizing CTFC as a European research institution that fosters an attractive and motivating work environment.

PHD ON PRECISION FORESTRY AND FOREST UTILIZATION, MECHANIZATION AND BIOMASS

Reference: 23-09-00003

The Forest Science and Technology Centre of Catalonia (CTFC), located in Solsona (Pre-Pyrenees, 120 km from Barcelona), Spain, employs app. 100 staff, produces >100 scientific articles annually and has a turnover of app. 6 Mil. €/year. Further institutional information is available at: www.ctfc.cat/en.

CTFC's research activity is organised around three programs: 1) Multifunctional Forest Management; 2) Landscape Dynamics and Biodiversity; 3) Bioeconomy and Governance. A Project Promotion Office gives support to all the researchers and technicians in managing projects.

We are looking for a candidate to apply for a FI-AGAUR 2024 PhD grant within the Precision forestry (PrecFOR) and the Forest utilization, mechanization and biomass group at the Forest Science and Technology Centre of Catalonia (Solsona, Spain).

Applicants must have a good academic record in Biology, Ecology, Forest Engineering or similar, as candidates to apply for a public scholarship in Catalonia, to carry out a PhD Thesis on Terrestrial laser scanning inventory of standing trees for stand health and assessment and for optimal bucking. The research will focus on enhancing real time assortment inventory for optimising tree bucking and maximize value recovery from each tree. Also, the TLS data of the remaining trees after the thinning would be used to calculate CO₂ fluxes for carbon credits, biodiversity indicators, and other ecosystem services as well as different indexes regarding the remaining tree standing structure. The university of Eastern Finland (UEF) would acquire the LiDAR data inside the SINTETIC project. The PhD candidate should have availability to travel and work at the UEF during their secondment. Additionally, the doctorate would need to add a Co-tutor from the UEF. The candidate will also have the possibility to carry out fieldwork and collect data related with the PhD subject during the secondment carried out at the UEF. According with the Joan Oro call the candidate will need to enrol in a Catalonian university.

Candidates:

- The holder of the grant will be expected to complete a PhD degree in a doctoral Programme during her/his grant tenure (3 years + 1 potential extra year).
- The PhD will be developed under the supervision of Dr. José Ramón González and Dr. Antonio Ruano and based in Solsona (Catalonia, Spain).
- Candidates must have the equivalents of a Bachelor's degree and official Master's degree in Biology, Ecology, Forest engineering, Remote sensing, Mathematics or similar disciplines, with high qualifications.

- Following criteria will be also evaluated:
 - Previous experience working with LiDAR data
 - Knowledge on data management and statistical modelling
 - Knowledge of programming languages: Python, R...
 - Previous SCI and non-SCI publications
 - Communications in congresses and meetings
 - Stances in national and international research centres
 - Good English level
 - Good scientific writing skills

CONTACT

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CTFC guarantees an open, transparent, and merit-based recruitment process (OTM-R) to all registered candidacies avoiding thus any bias on gender, origin, age, ideology, or other circumstances that could be discriminatory.

Integration policy: reservation of a place for staff with a certificate of recognized disability.

SELECTION PROCESS AND CRITERIA

The selection process is led by the PRECISION FORESTRY (PrecFOR) AND FOREST UTILIZATION, MECHANIZATION AND BIOMASS of CTFC. This process consists of:

1. **Admission of candidates:** Please, send a motivation letter along with the CV and the academic record (Bachelor and Master) to jr.gonzalez@ctfc.cat and antonio.ruano@ctfc.cat, indicating the reference code of the offer. As the official call is already open, due to the short the deadline for submitting applications is 9th of October. The candidates should fulfil all the requirements listed on the call (<https://dogc.gencat.cat/ca/document-del-dogc/?documentId=968565>) and if selected required to submit all the data on the 10th of October that is the last day.
2. **Pre-selection:** verification of compliance with the minimum requirements of the offer.
3. **Selection:** assessment of the preselected candidates by scoring based on objective criteria and interview.
4. **Final decision:** in case of finding the suitable person, the election will be formally communicated to him/her.

Further information: borsa.treball@ctfc.cat