

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..

## Senior Expert in Atmospheric Physics, Climatology, Artificial Intelligence, and Database Management

**Reference:** 25-10-00078

CTFC is offering a position for a senior technician with experience in atmospheric physics, climatology, artificial intelligence, and data management, to join the Climate Change and Ecosystem Services area. The selected candidate will participate in projects related to modeling current and future climate conditions, supporting adaptive forest management, and developing digital tools for the analysis and prediction of climate impacts on forest ecosystems.

The Forest Science and Technology Centre of Catalonia (CTFC), located in Solsona (PrePyrenees, 120 km from Barcelona), Spain, employs app. 160 staff, produces >120 scientific articles annually and has a turnover of app. 9 Mil. €/year. Further institutional information is available at: [www.ctfc.cat/en](http://www.ctfc.cat/en).

### TERMS OF THE APPOINTMENT

- Start date: December 2025.
- Scientific-technical activities employment contract.
- Work schedule: 50% part-time (18.75 hours/week, flexible schedule).
- Workplace: Solsona (Solsonès) with the possibility of remote work per agreement.
- Salary: Based on skills and experience, according to CTFC's salary table.

### KEY RESPONSABILITIES

1. Development and application of climate and weather models at local and regional scales
2. Processing and analysis of various types of climate data (synoptic analysis, ground and satellite observation data, climate projections)
3. Design and implementation of AI algorithms, machine learning, and data mining techniques for analyzing and predicting environmental phenomena
4. Management, cleaning, and structuring of large climate and environmental databases
5. Coordination with other technical areas and collaboration with national and international organizations
6. Scientific writing, project monitoring, and evaluation
7. Any other function or task assigned due to its nature

## BASIC REQUIREMENTS

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1. PhD, Master's degree, or higher studies in Atmospheric Physics, Meteorology, Applied Mathematics, Artificial Intelligence, Complex Systems, Environmental Engineering, or a related field.
2. Minimum 3 years' experience in leadership, coordination, and management of high-level technical or scientific projects related to climate, environmental systems, or digital technologies.
3. Experience in scientific programming (Python, R, MATLAB) and managing geospatial databases (PostGIS, NetCDF)
4. Active participation or leadership in projects with international organizations
5. Advanced Microsoft Office skills
6. Advanced proficiency in English and Spanish
7. Availability for immediate incorporation

## DESIRABLE REQUIREMENTS

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1. Experience in coordination and/or execution of European and/or international projects
2. PhD in Atmospheric Physics, Meteorology, Applied Mathematics, Artificial Intelligence, Complex Systems, Environmental Engineering, or a related field.
3. Knowledge of geographic information systems (GIS)
4. Experience with high-performance computing (HPC) or cloud environments
5. Knowledge of other languages (German, Italian, French, etc.)
6. Advanced GIS skills

## SOFT COMPETENCES

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1. Planning and organizational skills
2. Leadership and teamwork abilities
3. High level of engagement
4. Critical thinking and attention to detail
5. Initiative and proactivity
6. Flexibility and adaptability
7. Responsible and organized with a problem-solving approach
8. Willingness to travel locally and internationally

## CONTACT

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The CTFC guarantees an open, transparent, and merit-based recruitment process (OTM-R) to all registered candidacies, thereby avoiding any bias related to gender, origin, age, ideology, or other circumstances that could be discriminatory. Integration policy: Candidates who have a recognized disability and accredited equal to or greater than 33%, will be prioritized, provided that the disability is compatible with the proper performance of the job.

## SELECTION PROCESS AND CRITERIA

The selection process will be managed by the Human Resources Department and the Systems Department of the CTFC. This process will consist of:

- Application submission: Candidates must send a curriculum vitae, the signed attached documents, and a motivation letter via [www.ctfc.cat/registre.php](http://www.ctfc.cat/registre.php), no later than November 20, 2025, at 2:00 p.m., indicating the reference code of the job offer. Applications submitted through any portal other than the CTFC's own job board and/or applications received via the SOC, or following the instructions appearing there, will not be accepted.

| Indicative Calendar |                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20 working days     | Publication and dissemination of the job offer: CTFC website, SOC Office and other dissemination channels.                                                                                                                                                                                                                                                                       |
| Next 2 working days | Preselection: determination of compliance with the minimum requirements of the offer and desirable requirements.<br>Evaluation of the pre-selected candidacies, through a score based on objective criteria, and suitable pre-selected CVs are forwarded to the Selection Committee for review .<br><br>Sending informative mail to CVs not suitable to continue in the process. |
| Next 2 working days | Selection committee celebration: Interview with the selected suitable candidates.<br><br>Selection Committee Minutes with the selected candidate and the reasons for the selection. Publication in the CTFC job board of the resolution identifying the elected person.<br><br>Sending informational Mail to suitable CVs interviewed not selected.                              |
| Next 2 working day  | Sending to Human Resources the official documentation necessary to process the employment contract, and coordination with the start date of the contract.                                                                                                                                                                                                                        |
| december 2025       | Start of the contract.                                                                                                                                                                                                                                                                                                                                                           |