






*IRTA is a research institute owned by the Government of Catalonia ascribed to the Ministry of Climate Action, Food and Rural Agenda. IRTA is one of the CERCA centers of excellence of the Catalan Research System. Our purpose is to contribute to the modernization, competitiveness and sustainable development of agriculture, food and aquaculture sectors, the supply of healthy and quality foods for consumers and, generally, improving the welfare and prosperity of the society. We are granted by the EU with the [HRS4R](#) distinction for “HR Excellence in Research” and thus we offer a rich environment for knowledge development and exchange where to develop a scientific career, and possibilities for professional promotion according to the attained achievements. Check our initiatives [here](#).*

## Postdoctoral researcher in Greenhouse Emissions and Soil Carbon Sequestration for the Marine and Continental Waters Program

[ref. 103/24]

IRTA is currently seeking an enthusiastic and motivated Researcher with a PhD related to paddy rice greenhouse gas emissions and soil carbon sequestration to join the [Marine and Continental Waters Program](#). We invite applications from ambitious candidates with relevant research experience and passion to conduct research on the study of agronomic practices to mitigate greenhouse gas emissions and/or enhance soil carbon sequestration in rice crop.

The research is framed within a project with three ongoing rice field experiments from which datasets of GHG fluxes of two experiments started in March 2024 are already available. Field campaigns for GHG measurements and soil sampling will continue until, at least, September 2025. The project adopts a multidisciplinary approach, encompassing agronomic and microbial assessments through the collaboration with researchers from other programs in IRTA.

-  Head of the Program: Dr Jorge Diogène  
Program’s key researcher/s for this position: Dr Maite Martínez Eixarch
-  Job location: [IRTA La Ràpita](#)
-  Full-time position: 37.5 h/week
-  Terms of appointment: full time position for 28 months linked to the research project  
Gross Annual Salary: 33,247€ (category F) in 14 payments
-  Employee Benefits: 22 vacation days, 3 days of family & work conciliation, 45h of personal days, Friday afternoon off, Compressed Summer schedule from 15/06 to 15/09, Conciliation schedule.

### Tasks and Responsibilities

- Scientific and technical tasks, taking part in the execution of the experiments to ensure the achievement of milestones of research projects.
- Field measurements of soil and GHG emissions as affected by agronomic mitigation practices.
- Lab measurements of soil C and soil aggregates.
- Literature review, data collection and management, involving statistical analysis.

- Scientific production of the research, mainly by writing of scientific articles and mid-terms and final reports for to the funding agencies.
- Contribution to the teamwork and team-spirit in the Marine and Continental Waters program, fostering collaboration and integration activities.

## Required qualifications and experience

- Ph.D. in Biology, Agriculture, Soil Science or related fields applied to the soil science and carbon cycling in agroecosystems, preferably with post-doctoral experience in the research topic.
- Be familiar with scientific literature related to GHG and soil carbon sequestration in agricultural systems, preferably rice fields or annual crops, and the impacts of management on soil C and GHG emission responses.
- Proved research skills: experience on literature review, experimental design and implementation, data analysis, scientific article writing.
- Dissemination skills: presentation/communication skills, and technical writing.
- Demonstrate ability to work independently and as a part of a team. The work is collaborative, and we seek applicants who have interest and motivation to work closely with rice research team and be involved in regular meetings and join research efforts

## Desirable requirements

- Postdoctoral experience in GHG measurements and calculation of emission rates.
- Postdoctoral experience on assessment of soil carbon stocks, and soil aggregation.
- Experience in the use of statistical analysis with R programming.

## Languages

- Proficiency in English.
- Catalan and Spanish are valued.

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## Application process

If you wish to be considered for this position, please, apply via our [Recruitment Platform](#) to the job post with reference 103/24 and upload your CV and motivation letter. All information will be treated in the strictest confidence.

**Deadline for application:  
31/08/24**

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**Timings in the Recruitment Process of ref. 103/24 Postdoctoral researcher in Greenhouse Emissions and Soil Carbon Sequestration for the Marine and Continental Waters Program**

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| <b>66 natural days</b>           | Publication and diffusion of the job advertisement on IRTA's website, EURAXESS Jobs, social media and other specific recruitment places.   |
| <b>5 following working days</b>  | Distribution of the pre-selected CVs which matching eligibility criteria to the Recruitment Committee. Communication via e-mail with the not pre-selected candidates who will not be further included in the process.  |
| <b>20 following working days</b> | Recruitment Committee:<br>- Communication via e-mail with the not-selected candidates by the Recruitment Committee.<br>- Interview with selected candidates by the Recruitment Committee.<br>- Accord of the Recruitment Committee stating the selected candidate and detailed reasoning for the decline of the rest of the candidates.<br>- Communication via e-mail with the interviewed and not-selected candidates |
| <b>10 following working days</b> | Provision by the selected candidate of requested legal and official documentation to the HR department to coordinate the start of the candidate.   |
| <b>Second half 2024</b>          | Start of employment  |

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IRTA 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. Candidates in a situation of social exclusion will be considered in the first place.

*Please know that if you are the chosen candidate and you are from a country which does not belong to the UE, IRTA's Human Resources Department will support you to get the residence and working permits.*