






*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 Modelling for the Marine and Continental Waters Program

[ref. 105/24]

*IRTA is currently seeking an enthusiastic and motivated Postdoctoral researcher with a PhD in Marine Sciences, Marine Ecology, Statistics, Biology, Phycology or related fields, to join the [Marine and Continental Waters Program within the EuroCigua II project](#). We invite applications from ambitious candidates with relevant research experience willing to conduct research on the modelling of microalgal populations and Harmful Algal Blooms (HABs) in marine ecosystems with special emphasis on benthic populations.*

-  Head of the Program: Dr Jorge Diogene  
Program's key researcher/s for this position: Dr Carles Alcaraz
  -  Job location: [IRTA La Ràpita](#)
  -  Full-time position: 37.5 h/week
  -  Terms of appointment: temporal full-time position for 11 months linked to project EUROCIQUA II
  -  Gross Annual Salary: 33,247 € in 14 payments (category F)
- 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

- Literature review, data collection and management, involving the ecological factors and the methods to develop HAB forecast and statistical analysis.
- Data analysis on the occurrence and abundance of microalgal populations, their dynamics, toxin production and flux of toxins in the marine food webs under climate change scenarios, with the aim of prediction.
- Data analysis of commercial fish toxicity and modelling considering different variables.
- Performance of scientific and technical tasks, taking part in the planning and execution of project's activities to ensure the achievement of milestones of research projects.
- Contribution to the scientific production of the research and innovation activities of the Program.
- Lead and actively contribute reporting process, such as writing progress and final reports of research activities.
- Identification of opportunities for cutting-edge research and innovation to address strategic priorities of the Marine and Continental Waters Program within the Animal Production Area.
- Contribution to the teamwork and team-spirit in team and foster collaboration and integration activities.

## Required qualifications and experience

- Ph.D. in Marine Sciences, Marine Ecology, Statistics, Biology, Phycology or related fields applied to environmental studies, with experience in the research topic, preferably with an international scope.
- Data analysis and modelling, handling of statistical software (R software, Python or equivalent).
- Proved research skills: experience on project proposal writing, literature review, experimental design and implementation, data analysis, scientific article writing.
- Dissemination skills: presentation/communication skills, and technical writing.
- Capacity to successfully develop collaborative research links with national and international research organizations.

## Desirable requirements

- Expertise in methodological approaches for data analysis involving microalgal populations of planktonic and benthic ecosystems.
- Experience on oceanographic studies, involving population dynamics studies and trophic web interactions.
- Knowledge of machine learning and IA algorithms and methods.
- Knowledge of species distribution models.

## 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 105/24 Postdoctoral Researcher for the Marine and Continental Waters Program and upload your CV and motivation letter. All information will be treated in the strictest confidence.

**Deadline for application:  
30/08/2024**

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Timings in the Recruitment Process of ref. 105/24 Postdoctoral Researcher in Modelling for the Marine and Continental Waters Program

65 natural days

Publication and diffusion of the job advertisement on IRTA's website, EURAXESS Jobs, social media and other specific recruitment places.

5 following working days

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>	<p>Recruitment Committee:</p> <ul style="list-style-type: none"> <li>- Communication via e-mail with the not-selected candidates by the Recruitment Committee.</li> <li>- Interview with selected candidates by the Recruitment Committee.</li> <li>- Accord of the Recruitment Committee stating the selected candidate and detailed reasoning for the decline of the rest of the candidates.</li> <li>- Communication via e-mail with the interviewed and not-selected candidates</li> </ul>
<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 of 2024</b>	Start of employment

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.*