

Position Description

1. General information

Position reference	EUT-PF2: Modelling Water Quality in Drinking Water Distribution Networks
Research topic	Developing, validating, and implementing formation models of disinfection by-products and other emerging pollutants in drinking water distribution networks.
Supervisors	<ul style="list-style-type: none"> • Manuel Martínez del Álamo (Eurecat) • Veeriah Jegatheesan (RMIT)
Research areas	Water Chemistry, Chemical Engineering, Mathematical Modelling, Environmental Engineering
Employing entity	Fundacio Eurecat
Seconding entity	RMIT University
Position funded by	<ul style="list-style-type: none"> • COFUND, Marie Skłodowska-Curie Actions (MSCA), Horizon Europe, European Union • Fundacio Eurecat (Eurecat) • RMIT University (RMIT)
Additional information	<ul style="list-style-type: none"> • https://eurecat.org/en/field-of-knowledge/water-air-soil/
Foreseen start date	September 2025
Gross annual salary	35,605 EUR plus complements defined below

2. Expected candidate profile

The expected candidate profile for the position:

- PhD in chemistry, chemical engineering, environmental sciences, physics or similar.

Expertise in one or more of these areas is required:

- Modelling of chlorine, DBPs and/or biofil: decay models, production models;
- Technology/processes for the removal of DBPS or DBPs precursors;
- Modelling of drinking water distribution networks (EPANET, MSX or other);
- Data management (statistics);
- Programming (R, Matlab, Python);
- Detection and analysis of disinfection by-products (DPBs) in water.

Skills required:

- Project management.
- Leadership ability.
- Good Initiative.

- Good communication.
- Scientific rigor.

3. Employment conditions

Eurecat offers a 36-month (3-year) postdoctoral full employment contract to work at its facilities in Tarragona, Spain as part of the AuSpire researcher training program, co-funded by the European Commission under the MSCA COFUND scheme. The total working hours per week are 40 and there is a probation period of 2 months.

The remuneration, in line with the European Commission rules for Marie Skłodowska-Curie grant holders, will consist of a gross annual salary of 35,605 EUR. The definite amount to be received by the Postdoctoral Fellow is subject to Spanish tax legislation.

The position will be jointly supervised by Eurecat (Employing Entity) and RMIT (Seconding Entity) where the Postdoctoral Fellow must undertake a secondment at the premises of the latter in Melbourne, Australia for up to 12 months.

Additionally, the program includes annual in-person workshops at various locations across Spain, along with online training and networking activities.

Benefits include:

- 4,000 EUR relocation for employment stipend to cover costs associated with taking up employment (flights, visa, insurance, etc.), to be distributed monthly as a top-up to the gross salary. ¹
- 9,000 EUR relocation for secondment stipend to cover compulsory project-related travel and accommodation costs (flights, visa, insurance, accommodation, etc.). ¹
- 3,000 EUR travel stipend to cover flights and accommodation for participating in compulsory AuSpire training and networking events in Spain over the 3 years.¹
- 314 EUR monthly family allowance offered to candidates who meet the criteria. ^{1 2}
- Access to all the necessary facilities and laboratories at Eurecat and RMIT.
- Access to research and training facilities at all Eurecat locations required, specifically Tarragona and Manresa, Spain. Access to full-scale water distribution networks if needed for the project and in accordance with their owners.
- 27 days of paid holiday leave.
- Spanish Social Security coverage.
- Sick leave.

¹ The definitive amount to be received by the Postdoctoral Fellow might be subject to Spanish tax legislation.

² According to MSCA-COFUND requirements, Fellows with family obligations are entitled to a family allowance (i.e. persons linked to Postdoctoral Fellow by (i) marriage, or (ii) a relationship with equivalent status to a marriage recognised by the legislation of the country or region where this relationship was formalised; or (iii) dependent children who are actually being maintained by the Postdoctoral Fellow).

- Parental leave.
- Becoming a Marie Skłodowska-Curie fellow and be invited to join the [Marie Curie Alumni Association](#).
- Hybrid work (home office/work in the office).
- Flexible chedule.
- Shorter workday on Fridays and summer schedule.
- Flexible remuneration package (health insurance, transport, lunch, studies/training and kindergarten).
- Eurecat workers can join Eurecat Academy courses.
- Eurecat workers can attend weekly thematic sessions to be aware of Eurecat areas of knowledge.
- Language courses (Catalan and Spanish).