Position Description

1. General information

Position reference	RMIT/AigüesBCN-PF1: Non-Targeted Screening of Contaminants During Drinking Water Production and Managed Aquifer Recharge
Research area	Environmental Chemistry and Water Treatment Engineering: study of contaminant transformation during drinking water production and managed aquifer recharge using non-targeted analytical approaches.
Research fields	Analytical Chemistry (non-targeted analysis), Environmental Chemistry, Water Chemistry
Supervisors	• María José Farré (Aigües de Barcelona) • Vincent Pettigrove (RMIT)
Available research capabilities	Aigües de Barcelona state-of-the-art analytical laboratory equipped with high-resolution mass spectrometry platforms (GC-Orbitrap, LC-Orbitrap) and complementary GC-MS and LC-MS systems for non-targeted and targeted chemical analysis. RMIT University Melbourne has ecotoxicology laboratories and access to the National Measurement Institute analytical laboratories.
Find out more about the research groups	• https://www.rmit.edu.au/about/schools-colleges/science/research/research-centres-groups/aquatic-environmental-stress
Position funded by	• COFUND, Marie Sklodowska-Curie Actions (MSCA), Horizon Europe, European Union • Aigües de Barcelona • RMIT University
Sponsoring entity	Aigües de Barcelona
Employing entity	RMIT Europe
Seconding entity	RMIT University
Foreseen start date	January 2027
Gross annual salary	37,125 EUR plus complements defined below

2. Expected Candidate Profile

The expected candidate profile for the position is as follows:

- A PhD followed by active post-doctoral research experience in Analytical Chemistry, specifically non-targeted analysis in aqueous environmental sciences.

- Proficiency in operating state-of-the-art analytical instrumentation, particularly high-resolution mass spectrometry platforms such as GC-Orbitrap and LC-Orbitrap, as well as complementary GC-MS and LC-MS systems.
- Proven experience in processing, interpreting, and managing large-scale HRMS datasets using advanced data analysis and cheminformatics tools.
- Demonstrated ability to publish research findings in high-impact peer-reviewed journals and present results at international scientific conferences.
- Strong programming and data analysis skills, preferably including experience with R, Python, or other relevant computational tools for environmental data processing.

Employment Conditions

RMIT Europe offers a 36-month (3-year) postdoctoral full employment contract in Barcelona, 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 37 and there is a probation period of 5 months.

The Postdoctoral Fellow will work across RMIT Europe and Aigües de Barcelona, benefiting from a collaborative academic–industry environment, with access to laboratory facilities at Aigües de Barcelona.

The remuneration, in line with the European Commission rules for Marie Skłodowska-Curie grant holders, will consist of a gross annual salary of 37,125 EUR. The definite amount to be received by the Postdoctoral Fellow is subject to Spanish tax legislation.

The position will be jointly supervised by Aigües de Barcelona and RMIT, 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 compulsory 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]

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

- 314 EUR monthly family allowance offered to candidates who meet the criteria.[1] [2]
- Becoming a Marie Sklodowska-Curie fellow and be invited to join the Marie Curie Alumni Association.
- 22 days of paid holiday leave.
- 4 personal leave days.
- Christmas closure (between Christmas and New Year) – 4 working days of leave (not discounted from holidays).
- Spanish Social Security coverage.
- Sick leave.
- Parental leave.
- Hybrid work scheme.
- Two weeks per year remote work from anywhere.
- Flexible salary benefits (meals, transport, healthcare, kindergarten).
- Free coffee and fruit.
- Access to research and training facilities (analytical chemistry and ecotoxicology laboratories).

[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).