

Position Description

1. General information

Position reference	BSC-PF3: Drug Discovery Molecular and AI Modeller
Research area	Combining machine learning algorithms with molecular modelling approaches for hit identification of entities that modulate complex protein-protein interactions
Research fields	Pharmacology; Biotechnology; Computational Chemistry
Supervisors	• Victor Guallar (BSC) • Jessica Holien (RMIT)
Available research capabilities	Large computational Infrastructure; Interactions with large Pharms
Find out more about the research groups	• https://www.bsc.es/discover-bsc/organisation/scientific-structure/electronic-and-atomic-protein-modeling-eapm • https://www.rmit.edu.au/profiles/h/jessica-holien
Position funded by	• COFUND, Marie Skłodowska-Curie Actions (MSCA), Horizon Europe, European Union • BSC • RMIT University
Employing entity	Barcelona Supercomputing Center
Seconding entity	RMIT University
Foreseen start date	June 2026
Gross annual salary	40,000 EUR plus complements defined below

2. Expected Candidate Profile

The expected candidate profile for the position:

- Strong background in Computational Chemistry, with a focus on protein modelling both at the level of machine learning and molecular modelling algorithms.
- Previous experience in modelling protein-ligand and protein-protein interactions, ideally in the Abs space.
- Good working knowledge of Python programming, Linux environment, and using large computational clusters.
- Used to work in large collaborative environments.

3. Employment Conditions

The Barcelona Supercomputing Center (BSC) offers a 36-month (3-year) postdoctoral full employment contract to work at its facilities 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 37.5 and there is a probation period of 6 months.

The remuneration, in line with the European Commission rules for Marie Skłodowska-Curie grant holders, will consist of a gross annual salary of 40,000 EUR. The definite amount to be received by the Postdoctoral Fellow is subject to Spanish tax legislation.

The position will be jointly supervised by BSC (Employing Entity) and RMIT University (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 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
- 314 EUR monthly family allowance offered to candidates who meet the criteria.^{1 2}
- Becoming a Marie Skłodowska-Curie fellow and be invited to join the [Marie Curie Alumni Association](#).
- Spanish Social Security coverage.
- Sick leave.
- Parental leave.
- Holidays: 22 days of holidays + 6 personal days + 24th and 31st of December per our collective agreement.

We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, private health insurance, and support to the relocation procedures.

¹ The definitive amount to be received by the Postdoctoral Fellow may 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).