

Technician position in High Performance Computing for geosciences and genomics applications

The role

We are offering a technician position on high performance computing for geosciences and omics applications. We seek an HPC expert to optimize, and maintain high-performance computing systems. You will collaborate with members of the Geosciences and Environmental Chemistry departments at IDAEA to ensure the execution of complex simulations, data processing tasks, and scientific computing applications. The technician will be based in Barcelona at the Institute of Environmental Assessment and Water Research (IDAEA-CSIC).

What are we looking for?

- **Qualifications**

Degree or master in computer engineering or a related discipline.

- **Professional experience**

Experience in system administration and HPC will be a plus.

- **Competences**

- HPC system design, administration and optimization.
- Parallel computing, distributed systems, and performance tuning.
- Skills in programming languages used in HPC (C++, Python, MPI, OpenMP).
- Understanding of operating systems and job schedulers.
- Interest in collaborative, multi-disciplinary research.
- Working proficiency in English.

Working conditions

- **Contract duration: 36 months.**
- Estimated annual gross salary: The successful candidate will receive salary in accordance with the CSIC level M3 (around 32,465€/year gross salary). The exact salary will be confirmed upon appointment.
- Target start date: **1st June 2025**

The institute

The **Institute of Environmental Assessment and Water Research (IDAEA)** is an environmental science institute devoted to the study of the human footprint on the biosphere. Much of the research work at this institute is centred on two of the great environmental challenges of our time: cleanliness and availability of water and quality of air.

Founded in 2008 as a member of the **Spanish National Research Council (CSIC)**, the Institute brings together a wide range of expertise in environmental science. It is organized under two Departments (Environmental Chemistry and Geosciences), established with a strong record of publication in top scientific journals, leading international projects, membership on international committees, and adopting a high-profile contribution to the identification and remediation of environmental problems.

IDÆA has demonstrated strengths in the analysis of organic pollutants and their impact on ecosystems, the study and management of water resources, the development of multivariate resolution algorithms in chemometrics, and in the study of inhalable particulate matter and toxic gases.

IDÆA has been recently awarded with the distinctive **Centre of Excellence “Severo Ochoa”** (2020-2023), distinction that indicates the high-quality scientific leadership and global impact of the work developed at the centre.

We offer a diverse and inclusive environment where no discrimination against disability, gender, nationality, religion or sexual orientation will occur during the selection process.

How to apply?

Those interested may email their **CV** and a **motivation letter** to **Dr. Juan J. Hidalgo** at juan.j.hidalgo@idaea.es adding **HPC Technician** to the email subject.

Deadline: Open until filled.