PhD fellowship on Exploring the linkages between chemical, functional and taxonomical diversities in the upper ocean: towards a global ocean biogeochemical understanding

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.

The group

The role

We are looking for an enthusiastic PhD student. The project will be focused on exploring the linkages between chemical, functional and taxonomical diversities in the upper ocean.

Brief description: Marine microbiomes are the main engines driving the main global biogeochemical cycles, today under threat by global change vectors. Advances in our understanding on the role played by dissolved organic carbon (DOC), both biogenic (BDOC) and specially anthropogenic (ADOC), modulating microbiome functioning has been hampered by limited analytical techniques. Nowadays, however, massive data from the microbiomes and DOC can be retrieved applying high-throughput approaches, which require an expert team with different high qualified backgrounds. This project aims to apply meta-omic approaches to disentangle the linkage between chemical, functional and taxonomical diversities in the upper ocean.

The selected candidate will participate in at least one oceanic cruise.

What do we look for?

- **Competences**
  Applicants must hold a master degree (completed or in course) in Chemistry, Environmental Engineering or similar. Motivation, teamwork and programming skills will be appreciated. High level of English is a must.

Working conditions

- **Contract duration**: 4 years
- **Salary** will commensurate with qualifications and experience
- **Target start date**: 1 November 2020

How to apply?

Those interested may email their CV and motivation letter to Pablo Gago-Ferrero (Pablo.gago.ferrero@gmail.com) or Maria Vila-Costa (maria.vila@idaea.csic.es), adding “PhD position” to the email subject.

**Deadline**: 15 September 2020