



## Technician position

### The role

Laboratory and field sampling technician

Field of research: Air pollution from road traffic; impact of electrification

Research project: Non-exhaust emissions from road transport- impact on air quality, health and the implications of electric vehicles uptake.

The tasks include laboratory tasks in Barcelona and several weeks of field work in Barcelona, UK and Italy.

### What do we look for?

- **Qualifications**  
Higher education (e.g. Ciclo formativo de grado superior)
- **Competences**  
High level of English, availability to travel abroad during several weeks, driving license

Value will be given to candidates with:

- Previous experience in analytical lab and/or environmental field campaigns.
- High motivation and independence
- Good team-working skills

### Working conditions

- **Full-time 1 year contract**
- Target start date: First trimester of 2021

## The group

The **Environmental Geochemistry and Atmospheric Research (EGAR)** group is specialized in air quality assessment and monitoring, using state of the art air pollutant instrumentation combined with innovative monitoring strategies based on sensor networks. The team has strong expertise in source apportionment to aid in the identification of major sources impacting air quality degradation, which in turn supports the implementation of mitigation strategies. Similarly, EGAR is experienced in health impact assessment to translate air pollution impacts into premature mortality and morbidity outcomes, easier to understand by the general population. This combination of monitoring tools and methodologies provides the ideal framework to assess the effectiveness of innovative air quality monitoring and modelling tools.

The EGAR team has a fully equipped and running laboratory for air quality monitoring. Instruments available for the proposal are high-volume samplers, stationary and portable cascade impactors (ELPI+, Berner, PCIS), particle counters and sizers (CPC, NanoScan, SMPS), handheld particle number and black carbon monitors (DiscMini, AE51), one nanoparticle aerosol sampler (NAS), portable gaseous monitors (CO, CO<sub>2</sub>), and full facilities for particle characterisation in the lab (ICP-MS, ICP-AES, ion chromatography), and receptor modelling expertise for source apportionment analysis.

## 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.

IDAEA 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.

IDAEA 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 motivation letter to **Dr. Fulvio Amato** at [fulvio.amato@idaea.csic.es](mailto:fulvio.amato@idaea.csic.es) adding “Technician position” to the email subject.

**Deadline: 31 October 2020**