

### PhD position at IDAEA-CSIC

Project objective: to identify and quantify the sources of submicron ambient aerosols in the Western Mediterranean Basin.

Main instrumentation to be used: Aerosol chemical speciation monitor (ACSM), a field-deployable mass spectrometer able to determine the concentrations of sulfate, nitrate, chloride, ammonium and organic aerosol (OA) with high time resolution. The OA mass spectra are subsequently analyzed by multivariate mathematical techniques to identify the OA origin. Additional instrumentation will be used.

#### Qualifications:

Applicants shall hold a MSc in chemistry, environmental sciences, chemical engineering, or equivalent.

Required: interpersonal skills, analytical and problem-solving skills, ability to work independently and as part of a team, advanced spoken and written English.

Valuable merits: specialization towards environmental chemistry and atmospheric sciences, previous experience of field work in atmospheric sciences and data analysis, ability to work with long datasets, programming capacities.

#### Application:

The application should include:

- i) CV
- ii) short description of experience indicating the suitability for the position
- iii) grades from both the Bachelor and the MSc
- iv) contact information of two reference persons

Applications will be received until the position is filled.

#### Position offered:

Employment as PhD student. The position is full-time for a period of three years.

Research and training in a well-established research team with many international connections with excellent career-development opportunities. <http://www.idaea.csic.es/egar/>

Starting date can be agreed; ideally as soon as possible.

#### Tasks:

- Field campaigns: deployment, calibration and maintenance of air quality instrumentation
- Data processing
- Data interpretation
- Communication of results in conferences and scientific papers

Send applications to: **María Cruz Minguillón (mariacruz.minguillon@idaea.csic.es)**  
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