



PhD Fellowship in Isotope Geochemistry (4 years)

The Ph.D. project involves investigation of surface and interior co-evolution as linked by subduction recycling through Earth's history. Among other aspects, the focus will be novel heavy stable isotope measurements of geological samples by multicollector ICP-MS.

The Ph.D. researcher will work at the Petrology, Geochemistry, and Geochronology group of the Instituto Andaluz de Ciencias de la Tierra (IACT) under the supervision of Stephan König. The [Petrology, Geochemistry, and Geochronology group \(PGG\)](#) is a research group of the Spanish Research Council (CSIC) that brings together at the Instituto Andaluz de Ciencias de la Tierra (IACT) – a joint research centre between the CSIC and the University of Granada (UGR) – researchers from the CSIC and the UGR devoted to the investigation of the processes of formation and evolution of the Earth's crust and upper mantle, the associated mineral deposits, and the deep geochemical cycles of the solid Earth. The researchers of the group carry out multidisciplinary research that integrates, among others, field, mineralogical, petrological, experimental, geochemical, geochronological, and metalogenetic studies. The PGG group runs new state-of-the-art [instrumental facilities](#) including an ultraclean isotope geochemistry laboratory and a MC-ICP-MS (Thermo Finnigan Neptune XT), a single quadrupole ICP-MS (Thermo Finnigan iCAP QR), a triple quadrupole ICP-MS/MS (Agilent 8800), and 2 193nm Excimer laser systems for sample introduction to (MC)ICPMS. The IACT also houses XRF and XRD instruments and SEM for sample characterization as well as a C/S analyzer and state-of-the-art Raman IR spectroscopy. Researchers can also access the University of Granada instrumentation including a state-of-the-art electron microprobe, TEM and SHRIMP II ion probe.

The potential candidate should have a Diploma or Master Degree in Geosciences with a focus on Isotope Geochemistry. The candidate should be highly motivated to pursue Ph.D. and show particular interest in the development of new and challenging analytical techniques, involving chemical laboratory work and mass spectrometric analyses. As such, experience in clean laboratory work, including ion exchange procedures, and supervised handling of mass spectrometers, such as ICP-MS are a prerequisite, proficiency in multi collector ICP-MS is very beneficial. Fluency in both written and spoken English is a prerequisite.

The successful candidate will be employed by the CSIC with a 4-year contract for early stage researchers. The CSIC is one of the institutions recognised with the "HR Excellence in Research" seal of approval, demonstrating its commitment to continue improving its Human Resources policies in accordance with the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers. Salary and benefits are commensurate with the Spanish pre-doctoral employee scale (c. 1200 Euro/months net salary). As the CSIC intends to increase the proportion of female employees in science, women are particularly encouraged to apply. In case of equal qualification and experience, physically disable applicants are given preference. The fellowship includes Ph.D. tuition fees, public health and unemployment insurance. While the workplace will be at the IACT, the candidate will also be enrolled in the Ph.D. Earth Science Doctoral School of the University of Granada as the academic institution granting the Ph.D. degree.

Please send your application as a single PDF file, with detailed curriculum vitae, certificates, one page summary of your Diploma or Master thesis and a statement of research interests together with names and contacts of 2 potential references to the E-Mail address given below. Application reviewing starts on October 15. The selected candidate will then have to apply via the Spanish Ministry of Science web application (deadline November 2022). The list of selected candidates will be published in June-July 2023, and the start of the contract will be in September-October 2023.

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