

Projects of Earth Sciences and Geological Engineering (RNM-374)

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Banner de imágenes relacionadas con el grupo de Ciencias de la Tierra e Ingeniería Geológica

The Earth Sciences and Geological Engineering Research Group comprises researchers from Jaén University, Granada University and the Junta de Andalucía regional government, and has its main headquarters at the Linares Scientific Technological Campus. These facilities represent the clear commitment of Jaén University to Research, Development and Innovation. The group has three main objectives: first, scientific research (R&D & Innovation) in Geological Engineering, Geology, Hydrogeology, Exploration of Mining Resources, Environment, Civil Engineering and even archaeological auscultation. This research is funded through national and international projects. Second, technical-scientific collaboration/advisory service with and for the different administrations as well as private and public companies. Third, training of researchers and technicians in these fields.

Ongoing projects

Devolatilizacion, reciclaje de CO₂ y balances redox asociados a la subduccion de serpentinitas: implicaciones para el ciclo profundo del carbono

- Funding entity: Secretary of State for Research, Development and Innovation. State R&D Program Oriented to the Challenges of the Society, 2016 (Ref: CGL2016-75224-R)
- Participating entities: University of Jaen, University of Granada, University Montpellier.
- Duration, from: 30/12/2016 till: 31/12/2020
- Subsidy quantity: 52.000 €
- Researcher in charge: Dr. Vicente López Sánchez-Vizcaíno. University of Jaen.

Contribución de la subducción de oficarbonatos al ciclo profundo del carbono

- Funding entity: University of Jaen. Regional Government of Andalusia. Operational Programme 'Andalusia' (ERDF) 2014-2020. (Ref. 1263042)
- Participating entities: University of Jaen, Spanish National Research Council, University of Granada.
- Duration, from: 01/01/2020 till: 31/12/2021
- Subsidy quantity: 67.675,48 €
- Researcher in charge: Dr. Vicente López Sánchez-Vizcaíno. University of Jaen.

Finished projects

Vulnerabilidad de recursos hídricos en áreas mineras: análisis integral para la remediación, predicción y gestión sostenible de futuros abastecimientos

- Funding entity: Ministry of Economy and Competitiveness (MINECO)
- Participating entities: University of Jaen, University of Granada, IGME
- Duration, from: 2014 till: 2017
- Subsidy quantity: 42.459 €
- Researcher in charge: Hidalgo-Estévez, María Del Carmen (University of Jaen)

Evaluación, caracterización y modelización de productos pétreos mediante ensayos no destructivos y tratamiento de información multimodal

- Funding entity: Projects of Excellence, Regional Ministry of Innovation, Science and Business (Regional Government of Andalusia)
- Participating entities: University of Jaen
- Duration, from: 2013 till: 2017
- Subsidy quantity: 361.647 €
- Researcher in charge: Nicolás Ruiz Reyes (University of Jaen)

Calidad ambiental en regiones mineras abandonadas andaluzas: identificación de riesgos y caracterización de medios contaminados

- Funding entity: Projects of Excellence, Regional Ministry of Innovation, Science and Business (Regional Government of Andalusia)
- Participating entities: University of Jaen, University of Granada, IGME
- Duration, from: 2011 till: 2016
- Subsidy quantity: 204.215,3 €
- Researcher in charge: Rey-Arrans, Francisco Javier (University of Jaen)

Procesos de atenuación natural de drenajes ácidos y su aplicación en la gestión ambiental de residuos mineros.

- Funding entity: Ministry of Science and Innovation (MICINN). National R&D&I Plan CGL2009-12396 (BTE subprogram) (ERDF joint financing)
- Participating entities: University of Jaen, University of Granada
- Duration, from: 2010 till: 2012
- Subsidy quantity: 60.500,01 EUR
- Researcher in charge: Hidalgo-Estévez, María Del Carmen (University of Jaen)

Deshidratación de serpentinitas en contextos de subducción: implicaciones petrológicas, geoquímicas y petrofísicas

- Funding entity: Secretary of State for Research, Development and Innovation. Non-guided fundamental research projects, 2012 (Ref. CGL2012-32067)
- Participating entities: University of Jaen, University of Granada, University of Montpellier.
- Duration, from: 01/01/2013 till: 31/12/2015
- Subsidy Quantity: 79.560 €
- Researcher in charge: Dr. Vicente López Sánchez-Vizcaíno. University of Jaen.

Procesos de hidratación y deshidratación de rocas ultramáficas en contextos de subducción: estudio petrológico,geoquímico y experimental

- Funding entity: Secretary of State for Universities and Secretary of State for Research. National Programme for Fundamental Research Projects, 2008 (Ref: CGL2009-12518).
- Participating entities: University of Granada, University of Jaen, University of Montpellier.
- Duration, from: 01/01/2010 till: 31/12/2012
- Subsidy quantity: 60.500,01 €
- Researcher in charge: Dr. María Teresa Gómez Pugnaire. University of Granada.

Una zona de subducción fósil en Sierra Nevada oriental (Cerro del Almirez, Almería): estudio petrológico, geoquímico y radiométrico)

- Funding entity: Regional Government of Andalusia. Projects of Excellence 2013 (Ref. P12-RNM-3141)
- Participating entities: University of Granada, University of Jaen,
- Duration, from: 01/01/2014 till: 31/12/2017
- Subsidy quantity: 31.922,70 €
- Researcher in charge: Dr. María Teresa Gómez Pugnaire. University of Granada.

Zooming in between Plates: deciphering the nature of the plate interface in subduction zones

- Funding entity: European Commission. Initial Training Network FP7-PEOPLE-2013-ITN. Grant agreement n° 604713
- Participating entities: Various european universities, research centers and companies
- Duration, from: 01/10/2013 till: 31/09/2017
- Subsidy quantity: 3.735.441,60 €
- Researcher in charge: Dr. Philippe Agard. UPMC (Univ. Paris 6)