## ***RIS Internship Master thesis opportunities***

## ***Acad. year 2023/24***

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| Host institution name |  |
| Host institution field | Mining / Geo-sciences and geotechnology / Extractive waste management/ Materials science/ Metallurgy / Recycling / Other (specify) Environmental Engineering |
| Tentative topic of the master thesis | Biomass carbon dioxide removal |
| Short description (several sentences) | The intern will participate in the European project, C-Sink, that started in June 2023. It addresses the actions required to secure the large-scale deployment of the leading carbon dioxide removal (CDR) approaches to meet EU climate targets. Our Group is involved in the assessment of bioenergy with carbon capture and storage (BECCS). The intern will actively participate in the activities we are conducting on biomass carbon dioxide removal, will receive training in our experimental facilities and participate in the state-of-the-art report preparation. |
| Key words | Biomass; bioenergy; carbon dioxide removal |
| Please select if applicable | Laboratory work  Field work  Available datasets  Literature overview  Other (please specify) |
| Preferred educational background of the intern | Mining / geology / ecology/biology / chemistry / waste management / civil engineering / mechanical engineering / environmental engineering / metallurgy / economy/management |
| We accept | International students / National students / EIT Labelled students / SinREM/ Amir / Emerald / TimRex |
| Chose tentative months (Internship related to MSC thesis in 2023/24 should be e accomplished between October 2023 and latest May 2024) | October 2023 (zero grant)  November 2023 (zero grant)  December 2023 (zero grant)  January 2024 (full scholarship)  February 2024 (full scholarship)  March 2024 (full scholarship)  April 2024 full scholarship)  May 2024 (full scholarship) |
| Industrial supervisor | Dr Covadonga Pevida is a Research Scientist at the Institute of Carbon Science and Technology, INCAR-CSIC, in Spain. MEng in Chemical Engineering from the University of Oviedo, she completed her PhD on the heterogeneous reduction of nitrogen oxides during coal combustion in 2004. She received the Young PhD Researcher Award from the Spanish Carbon Group in 2005. She did two postdoctoral stays: at IRCELyon (CNRS-Université de Lyon 1) and the University of Nottingham. In 2017 she was a visiting researcher at the Research Centre for Carbon Solutions (RCCS), Heriot-Watt University (Edinburgh). She is co-author of 120 publications in JCR journals and has led and participated in more than 25 research projects at the national and European level in the Energy theme. Her current research interests focus on biomass utilization for energy and value-added products. In particular, the production of H2 from renewable bioresources and the development of solid sorbents for gas separation (e.g., CO2 capture) are two main research lines. ORCID ID: <https://orcid.org/0000-0002-4662-8448>  Contact e-mail: [cpevida@incar.csic.es](mailto:cpevida@incar.csic.es) |