



SCIENCE IN MOTION

YOUR MONTHLY CERENA NEWS

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A message from the President

Approaching the end of the academic year is always a milestone that can carry a bit of anxiety. We try to wrap up all the tasks that are still ongoing before the semester finishes, strike items off our personal to-do lists, and assess how much we were able to achieve from our original goals.

Playing as a team, we successfully completed the **installation of a new series of equipment in our laboratory infrastructure — ChemLab, GeoLab, ITLab, MILab, and GRGELab — and created a new infrastructure on yet another IST campus (Daedalus Lab)**. These facilities strengthen CERENA's capacity across our core research domains — mineral and energy resources, environment, and process systems and materials engineering. New, exciting, opportunities are now available for the entire CERENA community.

The scientific method has long been based on carefully planned experiments at the laboratory bench. Today we are facing a swift and transformative way of developing our science, leveraging computational methods and artificial intelligence to speed up procedures, test more creative scenarios, and propose alternative solutions when we reach a dead end. Thanks to a common effort, CERENA is today at the forefront of this transformation, with **dedicated, secure, and fully private AI agents**, based on large language models, for programming and as capable assistants within our everyday office tools. While enjoying the summer, I suggest you use some of the quieter weeks to explore and become familiar with these tools — I am certain they will help us all feel less anxious before next summer.

We wish you a great summer.

Leonardo Azevedo

June highlights

Ceremony of Awarding the title of Emeritus Professor to Amílcar Soares

On **19th June, 2026**, Amílcar Soares was awarded the title of Emeritus Professor.

The ceremony began with congratulations to Amílcar by Técnico's President, Professor Rogério Colaço, who presented an overview of Amílcar's career.

Maria João Pereira, the president of the Department of Mining and Energy Resources Engineering (DER), highlighted the importance of this distinction, not only at a personal level for Amílcar but also on an institutional level, as Amílcar is the first professor of DER to receive this award. Amílcar was always a strong voice for DER, bringing awareness to the importance of mining engineering, a field that is sometimes overlooked. This award is the perfect summation of his work for the field over the years.

Leonardo Azevedo, CERENA's Coordinator, highlighted Amílcar's passion for work and his out of the box ideas that keep on challenging his current students. Finally, Amílcar thanked his family, friends, and colleagues, giving an overview of his scientific journey over the years.



Image credits: Instituto Superior Técnico

June highlights

Opening of DAEDALUS Laboratory

As part of the DAEDALUS project, CERENA inaugurated a new laboratory on **22nd June 2026** at the Instituto Superior Técnico Loures Campus. This new space aims to bring together paleobiology, biomedical engineering, and translational otology, taking advantage of a multidisciplinary team led by Ricardo Araújo.



The opening ceremony counted with Marta Almeida, vice-president of the Loures Campus, Maria João Pereira, president of the Department of Mining and Energy Resources Engineering (DER), and Leonardo Azevedo, coordinator of CERENA. All the speakers emphasized the relevance of this new laboratory for future multidisciplinary research, which is one of the core values of CERENA. Ricardo, who was awarded a European Research Council (ERC) Consolidator Grant to develop this work, took this opportunity to thank the colleagues who made it possible and to introduce the team that will be working in this new facility.



June highlights

CERENA Seminar

On **25th June, 2026**, CERENA hosted a seminar focused on *Scaling Intelligence: AI Solutions for the Natural Stone Industry*. This seminar series is part of the 20th anniversary celebration of CERENA and aims to **bring academia and industry closer together**.

Gustavo Paneiro received Engineer João Vital to discuss the **Sustainable Stone** project. Gustavo explained the main goals of the project, which include the use of AI for the stone sector. As a result, the Sustainable Stone project led to the publication of two papers and one patent. João, as a representative of Stonify, gave the perspective of the industry in this project and highlighted the collaboration with CERENA.



The synergies between academia and the industry by Margarida Mateus

This month, to celebrate the 20th Anniversary of CERENA, we talked with **Margarida Mateus**, an integrated member of CERENA working in C5Lab. C5Lab is a collaborative laboratory that includes Técnico Lisboa, Secil, CIMPOR, the Portuguese Association of Cement, and the National Laboratory of Civil Engineering. It has three main focuses: the capture, storage, and utilization of carbon dioxide; the production of new cementitious materials; and the study of the carbonation of concrete materials over time. Margarida's industry experience makes her the perfect person to highlight the advantages of the synergies between academia and industry.

Margarida was working in quantum chemistry, but she wanted to switch to a larger scale, which motivated her to join João Bordado's research group, which ended up joining CERENA back in 2013. When Margarida first joined João's group as a postdoctoral researcher, she was involved in the **ENERGREEN project, which aimed to use biomass to produce biofuel**. This work was a partnership with SECIL to implement the developed technology in the Cibra-Pataias factory.



The synergies between academia and the industry by Margarida Mateus

20 YEAR
EDITION

Margarida's scientific journey fully embodies CERENA's multidisciplinary culture, which she carried on when transitioning to Secil, and later to C5Lab. During the years at Secil, Margarida worked on the modernization of the Ótão line, intending to make it the most efficient in Europe. Currently, this line has a 20% reduction in carbon dioxide production, and it produces 30% of electric energy thanks to the thermal energy generated in the production of clinker. Clinker is the main component of cement, which is obtained when limestone and clay are heated to temperatures close to 1500°C.

Later, Margarida joined C5Lab. During these transitions within the industry, Margarida remained an integrated member of CERENA, which allowed her to promote the interaction between academia and industry. Currently, C5Lab has 20 researchers from the fields of mining, chemistry, environmental and civil engineering, among other areas. In Margarida's view, **these interactions between different fields, as well as between industry and the academy, are the key to solving the problems of the future**, displaying the advantages of CERENA's multidisciplinary.

Finally, for anyone aiming to do a master or PhD in collaboration with the industry, Margarida says to embrace the interchange of knowledge and take advantage of the opportunities. **You can learn plenty from both sites!**



Community news

Industrial & Engineering Chemistry Research journal honors Pedro Castro

On **27th May, 2026**, the Industrial & Engineering Chemistry Research journal, which is part of the American Chemical Society, honored our member, Pedro Castro. The special issue, which can be found [here](#), has an editorial written by Ignacio Grossmann and Henrique Matos, who fondly remembers Pedro as a first scientific son.



Maria João Pereira participates in roundtable in Lisbon Book Fair



On **14th June, 2026**, Maria João Pereira, alongside Isabel Ribeiro and Isabel Trancoso participated in a roundtable promoted by IST Press at the Lisbon Book Fair. The session was moderated by Joana Lobo Antunes and focused on **Women in engineering and science**. The participants discussed gender diversity and equality in Science and Technology, particularly in Higher Education, as well as the importance of science communication within the country.



Community news

Leonardo Azevedo and João Narciso participate in China-Portugal Science and Technology Forum on Climate and Energy

On **29th May, 2026**, the China-Portugal Science and Technology Forum on Climate and Energy took place in Beijing in China's Science and Technology Exchange Center.

The Forum counted on the participation of CERENA's researchers Leonardo Azevedo and João Narciso, as a result of the cooperation of the China-Portugal Joint Research Institute for Climate and Energy dating back to 2014.

This Forum aims to mobilize innovation for global sustainable development, focusing on themes such as green energy, vertical AI applications, and AI infrastructure. It aims to build a new international cooperation mechanism and a model for China-Portugal green technology collaboration.

Leonardo Azevedo highlighted how this partnership is already shaping international collaboration: "It is worth mentioning that Portugal in Europe and China in the East have achieved remarkable success in the development and utilization of renewable energy and electrification, setting a benchmark for the international community."



Image credits: China University of Petroleum



Community news

Moisés Pinto participates in International Symposium on Smart Materials

From **31st May to 2nd June, 2026**, the 2nd International Symposium on Smart Materials for Energy Efficient Built Environment Control took place in Xian (China). The conference gathered more than 200 researchers to discuss cutting-edge research on smart materials for building energy efficiency, indoor environmental control, and thermal energy storage.

Moisés Pinto, alongside **SIMIACCI** partners Christian Serre and Tarik Aaboud, presented the project's results regarding the improvement of air quality in GLAMs (Galleries, Libraries, Archives, and Museums). The full news can be read on SIMIACCI's website.



Image credits: International Symposium on Smart Materials for Energy Built Environment Control

CERENA signs agreement with Chronosurveys



CERENA signed a cooperation agreement with Chronosurveys, Lda, a consultancy service company with experience in the Energy and Mining industries. This agreement will favor the exchange of knowledge between industry and academy, mainly focusing on the areas of mineral resources, applied geology, and technological innovation in the mineral and energy resources field.



Community news

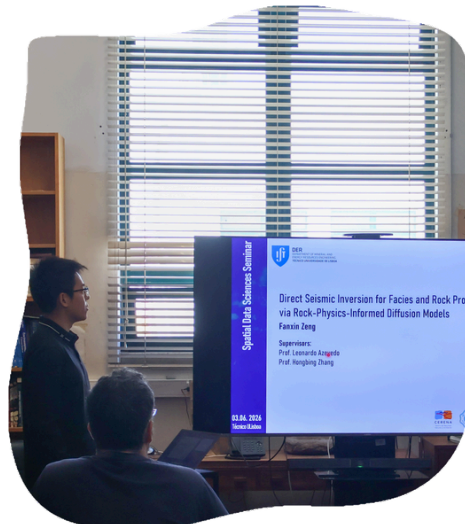
Spatial Data Science Seminar

On **3rd June, 2026**, the sixth edition of **Spatial Data Science** took place at the Mining Building of Instituto Superior Técnico. In this seminar series, organized by Amílcar Soares, the attendees explored the interdisciplinary field of Spatial Data Science, which integrates traditional data science methods (including Machine Learning and Artificial Intelligence) with spatial analysis methodologies (including Geographic Information Systems, Geostatistics, and Remote Sensing). The seminar series featured eight speakers, divided into internal and external speakers.

The morning started with a Welcoming Session by Maria João Pereira, president of the Department of Mining and Engineering Resources, who highlighted the importance of the event in today's digital world. It proceeded with presentations of work by different authors, including CERENA's researchers Miguel Gomes, Amílcar Soares, Manuel Ribeiro, Helga Jordão, Faxin Zeng, and Leonardo Azevedo.

Amílcar Soares presented Miguel Gomes' PhD work focused on the spatial characterization of drought areas. Helga Jordão focused on the importance of deep learning for mining exploration, while Fanxin Zeng, demonstrated the applicability of spatial data science in seismic inversion.

The seminar series concluded with a lunch, where participants were able to connect in an informal setting. See you again next year!





Community news

CERENA receives a visit from Brazil's committee

On **3rd June, 2026**, two elements from Universidade Livre do Meio Ambiente (UNILIVRE) (Brazil) visited CERENA. They were received by CERENA's Coordinator, Leonardo Azevedo, who presented CERENA's main research areas. Then, Cristhyano Cavali, from UNILIVRE, introduced their research. The visitors also had the chance to visit the GeoLab and the MIL facility, where they exchanged experiences with Silvia Carvalho about CERENA's technical capabilities.





Community news

CERENA researchers participate in outreach activities

On **2nd June, 2026**, Maria de Lurdes Dinis and Pedro Meixedo went to Escola Didáxis, Cooperativa de Ensino, to talk about the Mining and Geo-environment Engineering course. In this seminar, the speakers highlighted the **strategic role of this field for the sustainable management of natural resources**. To highlight the practical applications of the course, some of the materials developed in the ERA MIN ValorWaste project were displayed.



On **11th June, 2026**, Ricardo Araújo visited Escola Marquesa de Alorna, where he talked about the daily life of a Paleontologist with seventh-grade students. Ricardo explained where the passion for paleontology came from, his personal journey in the area, while engaging students with concepts of geology and disclosing information on some extinct species.



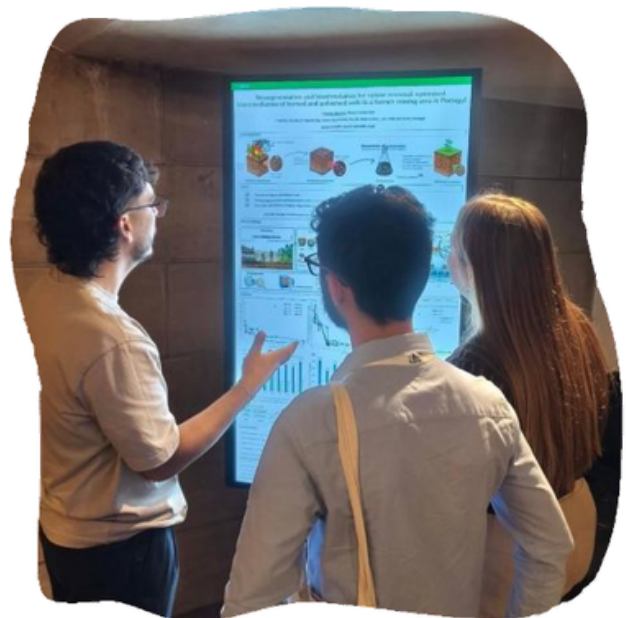
Community news



On **26th June, 2026**, Leonardo Azevedo visited Escola Básica de Alenquer, where he talked with third- and fourth-grade students about the energy produced from georesources. In this session, the students learned how a geophysicist can study the interior of the Earth and how technology can improve mine exploration!

Gonçalo Pereira participates in BioRemid Conference

From **23rd to 26th June, 2026**, Gonçalo Pereira participated in the BioRemid Conference, which took place in Italy. In this conference, Gonçalo presented a poster entitled "*Bioaugmentation and Biostimulation for Xylene Removal: Optimized Bioremediation of Burned and Unburned Soils in a Former Mining Area in Portugal*", which showcases his master's thesis work and part of his PhD work.



Congratulations, Gonçalo!



Community news

Cheng Zhang participates in EAGE Annual Conference

From **7 to 12th June, 2026**, Cheng Zhang, a visiting PhD student from China supervised by Leonardo Azevedo and João Narciso, participated in the **EAGE Conference**, which took place in Aberdeen (United Kingdom). In this conference, Cheng presented his PhD work, which focuses on the application of deep learning to seismic processing.



This year, Cheng attended the conference for the second time, reporting that the last half-year spent at CERENA made him more comfortable giving his talk "*MM-Net: ASPP-Based Registration Framework for Adaptive Multiple Subtraction*" to the international audience. This work has been supported by the Bureau of Geophysical Prospecting (BGP) (China), while Cheng's stay at CERENA has been facilitated by the institutional partnership between the China University of Petroleum-Beijing and Instituto Superior Técnico.



For Cheng, the most memorable aspects of this event were the meeting of international speakers and the possibility of networking with colleagues from different parts of the world. In Cheng's words, ***"I will forever cherish the profound inspiration and invaluable growth that CERENA has brought me."*** Cheng, particularly, thanks his supervisor, Leonardo Azevedo, for his "invaluable guidance and support, which have profoundly elevated my academic and research capabilities over the past six months."



Community news

Talent Pass reinforces its mission to promote knowledge exchange with different secondments

As part of the European **Talent Pass** project, several secondment activities took place in June 2026, reinforcing the project's mission to **promote brain circulation, knowledge transfer, and institutional cooperation across Europe.**

Joana Barrelas completed a secondment at the National Institute of Chemistry (NIC) in Slovenia. During her stay, Joana strengthened her competencies in European research and innovation project development, consortium building, stakeholder engagement, and research management. **Her secondment helped expand contacts with NIC researchers, and identify new collaboration opportunities between CERENA and NIC.**



Abeer Mohtar began her 1-month secondment at CHIMCOMPLEX in Romania. This mobility will contribute to the development of new research and innovation skills, and the **promotion of future collaborations between CERENA and CHIMCOMPLEX.**



Community news

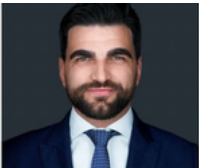
IST-ID also welcomed two administrative secondees from the “Petru Poni” Institute of Macromolecular Chemistry of the Romanian Academy, Daniel Condrea and Andreea Hulub, for a two-week internship in Portugal. Their visit promoted the exchange of good practices in research support, project management, and institutional procedures.



Together, these secondments highlight the role of Talent Pass in strengthening cooperation between research institutions, supporting professional development and creating new opportunities for collaboration in European research and innovation.

Joana Lobo Antunes participates on roundtable about science communication

On **15th June, 2026**, Joana Lobo Antunes participated in a roundtable about science communication. Alongside Patricia Sánchez Holgado and Diogo Teixeira Dias, Joana reflected on the relevance of science communication for the scientific and civil society. The roundtable, moderated by Lourenço Silva Ferreira, was an initiative of the young researchers of the Portuguese Association of Science Communication Sopcom.



MESA REDONDA
COMUNICAR CIÊNCIA
com Patricia Sánchez-Holgado, Diogo Teixeira Dias & Joana Lobo Antunes

15 de junho | 18h | 100% online



Community news

Ricardo Araújo participates in roundtable about failure

On **15th June, 2026**, Ricardo Araújo participated, alongside Lia Kajiki, in a panel promoted by Portuguese Explorers from National Geographic to talk about failure in scientific research and what we can learn from those experiences.

Ricardo highlighted his experience in Mozambique, back in 2009, when, after a month in the field without any findings, he found a complete fossilized cranium of *Niassodon mfumukasi*. Lia, an ecologist focused on bird studies in the Neotropics, disclosed her experiences in the Amazon and raised the question, *"How far can we go while ensuring a safe sample collection?"*

The session concluded with Ricardo's message to learn from nature: the species with greater food specificities are usually the most likely to go extinct. To ensure survival, be it in nature or in science, **we must be ready to adapt to constantly changing conditions.**



Leonardo Azevedo is awarded Scientific Prize from ULisboa

On **16th June, 2026**, Leonardo Azevedo was awarded a Scientific Prize from ULisboa in the category of Earth Sciences and Geophysics. This prize, funded by Caixa Geral Depósitos, recognizes scientific works of elevated quality and impact, reinforcing the commitment of the University of Lisbon to the production of knowledge. This year's edition counted on 56 awardees, including prizes and honorable mentions. The full news can be read on the [university's website](#).



CERENA showcases Rocky at Rock in Rio



On **21st and 27th June, 2026**, CERENA's master students Lara Leite and Mariana Laureano were present at Rock in Rio, in the Smart City of Rock, a platform for innovation that promotes the testing of new technology in real-life scenarios. They showcased Rocky, CERENA's robot for environmental monitoring, engaging Rock in Rio's visitors with CERENA's most recent technology.



Community news

Joana Lobo Antunes is awarded funding through Pedagogical Innovation Projects

The eighth edition of the Pedagogical Innovation Projects of Instituto Superior Técnico awarded funding to 13 projects to improve the teaching and learning of the school's students.

Among the 38 proposed projects was **Joana Lobo Antune's** project, which aims to create a science communication laboratory for students in Science Communication at both the bachelor's and PhD levels. This award will favor the **creation of LabCOMTécnico, a space equipped for the recording of podcasts and videocasts**. This space will allow the students to learn with hands-on projects. The full news can be read at [Técnico's website](#).

Congratulations, Joana!

Maria de Lurdes Dinis participates in ESA Advisory Committee meeting

The Euratom Supply Agency's Advisory Committee came together on **11th– 12th June 2026** for its first meeting under a new 2026 – 2029 mandate, for which a new chairmanship was elected.

Maria de Lurdes Dinis participated in this meeting, where the Committee discussed the short- and long-term security of supply of nuclear materials. The Directorate-General for Energy provided a presentation on the European Industrial Alliance on SMRs (small modulator reactors) and Strategy for the development and deployment of SMRs in Europe.





Community news

Kick off meeting of GREEN METALS MAPPING takes place at CERENA

On **24th and 25th June**, 2026, the kick-off meeting of **GREENMETALS MAPPING** took place at Instituto Superior Técnico, Lisbon. This project aims to reinforce Europe's strategic autonomy in critical raw materials, taking advantage of two interoperable products. On one hand, a **Geospatial Intelligence Suite** that combines AI-based mineral targeting, risk analysis, and environmental sensitivity mapping. On the other hand, a **Circular Economy** KPI Dashboard that enables data traceability, carbon intensity estimation, and strategic reporting based on EU Taxonomy and CSRD indicators. The project has CERENA's members Leonardo Azevedo, João Narciso, Vasco Miranda, Omri Gadol, and Maria João Pereira.

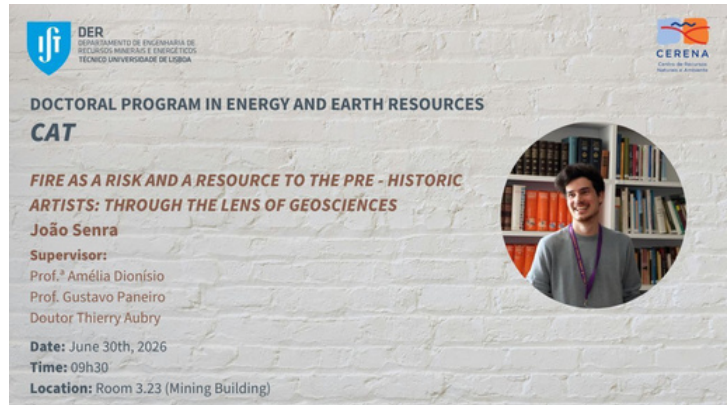




Community news

João Senra does his Thesis Monitoring Committee

On **30th June 2026**, João Senra, a PhD Student supervised by Amélia Dionísio and Gustavo Paneiro, did his Thesis Monitoring Committee, where he presented his work regarding *"Fire as a risk and a resource to the Pre-historic Artists: Through the lens of Geosciences"*.



CERENA researchers presented their work at the World Mining Congress



From **24th to 26th June**, CERENA researchers Maria de Lurdes Dinis, Cristina Vila, Zaid Al-Shomali and Jakub Skiba presented the most recent results from their research across CERENA's projects, including REESOURCE and VALORWASTE at the **27th World Mining Congress**, which took place in Lima, Peru.



Community news

Miguel Albino presents his work on Space Resources Week

Last year, **Miguel Albino** won the best poster for fundamental space research at the **Space Resources Week**, and this year, he did his first oral presentation at the yearly conference in Luxembourg.



In his master's thesis, Miguel tackled the problem of particle segregation by applying vibrations. When we have a box of cereal, the larger particles are at the top, while the smaller, usually in powder format, are at the bottom. In Miguel's thesis, the main idea was to take advantage of this phenomenon to separate particles of different sizes. Supervised by **Gustavo Paneiro** (from Técnico Lisboa) and **Joshua Rasera** (from Imperial College London), Miguel used two different-sized glass particles, to gain a better understanding of how amplitude and frequency of vibration modulate particle segregation.



Inside our labs

Pycnometer news

We have an update regarding the pycnometer. At this moment, you no longer need to wait for the gas analyzer to finish before performing your density measurements. It is now possible to use both equipment simultaneously. For more information, contact Sílvia Carvalho.





Note to the community

All members are kindly reminded that any publications, presentations, papers, or other dissemination materials should acknowledge CERENA as follows:

- **CERENA** – *This work was financially supported by: UID/04028/2025 (<https://doi.org/10.54499/UID/04028/2025>) of the CERENA – Research Center for Natural Resources and Environment, funded by Fundação para a Ciência e a Tecnologia, I.P./ MECI through the national funds.*
- **When using equipment from PRR** – *This work was financially supported by: UID/04028/2025 (<https://doi.org/10.54499/UID/04028/2025>) and UID/PRR/04028/2025 (<https://doi.org/10.54499/UID/PRR/04028/2025>) of the CERENA – Research Center for Natural Resources and Environment, funded by Fundação para a Ciência e a Tecnologia, I.P./ MECI through the national funds.*
- **When using equipment from PRR2** – *This work was financially supported by: UID/04028/2025 (<https://doi.org/10.54499/UID/04028/2025>) and UID/PRR2/04028/2025 (<https://doi.org/10.54499/UID/PRR2/04028/2025>) of the CERENA – Research Center for Natural Resources and Environment, funded by Fundação para a Ciência e a Tecnologia, I.P./ MECI through the national funds.*
- **When using equipment from PRR and PRR2** – *This work was financially supported by: UID/04028/2025 (<https://doi.org/10.54499/UID/04028/2025>), UID/PRR/04028/2025 (<https://doi.org/10.54499/UID/PRR/04028/2025>), and UID/PRR2/04028/2025 (<https://doi.org/10.54499/UID/PRR2/04028/2025>) of the CERENA – Research Center for Natural Resources and Environment, funded by Fundação para a Ciência e a Tecnologia, I.P./ MECI through the national funds.*



Pre Award



CERENA
Centro de Recursos
Naturais e Ambiente

EXPRESSION OF INTEREST - EoI

Researchers interested in applying to calls for competitive funding are requested to **complete the Expression of Interest (EoI) online form provided by CERENA Pre-Award Office**. The submission of the EoI enables the Pre-Award Office to anticipate upcoming applications, ensure adequate planning, and activate the necessary support actions. **The collected data supports mandatory annual reporting and informs the distribution of the CERENA annual funds.**

Applications for funding



In June, the Pre-Award CERENA (PAC) continued its active role in fostering the recruitment of international talent through the MSCA Postdoctoral Fellowships 2026 call. This has included targeted dissemination activities and close support for both supervisors and applicants, helping to structure competitive proposals and facilitate early-stage preparation. These efforts have been aligned with Instituto Superior Técnico's institutional initiative to promote opportunities for supervisors under the MSCA-PF 2026 call.

Disseminations | European



FUNDING to implement research-related doctoral programmes by partnerships of organisations from different sectors across Europe and beyond, under a project aimed at training highly skilled doctoral candidates, stimulating their creativity, enhancing their innovation capacity, and boosting their long-term employability.



Pre Award

MSCA Doctoral Networks 2026 (MSCA-DN)

DEADLINE 24.11

Deadline: November 24, 2026, 16h00 (Lisbon time)

Funding: € 593.034 million (overall indicative budget)

Duration: up to a maximum of 36 (or 48 months for Joint Doctorate Fellowships)

Links: [EU Funding & Tenders Portal - HORIZON-MSCA-2026-DN-01-01](#)

Main eligibility conditions

Researchers funded by Doctoral Networks must:

- not have a doctoral degree at the date of their recruitment and be of any nationality;
- be enrolled in a doctoral programme during the project;
- spend at least 50% of their time outside academia, for Industrial Doctorates;
- comply with the mobility rule - not have resided or carried out their main activity (e.g. work, studies) in the country of the recruiting organisation for more than 12 months in the 36 months immediately before their recruitment date.

Detailed eligibility conditions, as well as additional information on the MSCA-DN call, can be found in official sources provided by the European Commission, such as the call description on the [EU Funding & Tenders Portal](#) and the dedicated MSCA section of the [Horizon Europe Work programme 2026-2027](#).

Pre-Award Office support: Basic support, including the provision of relevant information and assistance with validation processes.



Welcome to CERENA

This month, CERENA welcomed an MSCA postdoctoral researcher, Andre Ohara, and three new research fellows. Join us in giving them a warm welcome!

Andre Ohara

Biotechnologist with a Ph.D. in Bio-systems Sustainability and over a decade of experience in microbial biotechnology, synthetic biology, and molecular microbiology.





Welcome to CERENA

Jenyfleck Da Veiga Pires Pinto



Jenyfleck Pinto is a Research Fellow at IST-ID and a collaborator at CERENA. She holds a Bachelor's degree in Environmental Engineering from Instituto Superior Técnico, where she is currently completing her Master's degree in the same field. She is involved in the European project DRYAD (Demonstration and modelling of Nature-based Solutions to enhance the resilience of Mediterranean agro-silvo-pastoral ecosystem and landscape). Her research focuses on Nature-based Solutions for Mediterranean agro-silvo-pastoral systems, with an emphasis on ecosystem resilience.

Miguel Maria Picão Caldeira Martins Albino

Miguel Albino is graduated (2024) and completed his Master's degree (2025) in Geological and Mining Engineering at Instituto Superior Técnico. During his studies, he developed a strong interest in the interface between mining engineering, mineral processing technologies, and space resource exploration.



Vittorio de Oliveira Pavan



Vittorio de Oliveira Pavan is an Environmental Engineering student at Escola de Engenharia de São Carlos, Universidade de São Paulo (EESC-USP), Brazil, currently completing a Master's degree in the same field at Instituto Superior Técnico under a Double Degree program.



Latest in the press

1. Pires, V.; Sitzia, F.; Dias, L.; Mirão, J.; Neves, S.; **Physical-Mechanical Changes in Portuguese, Greek, and Italian Marbles Under Aging Cycles Simulating Environmental Effects Linked to Bowing**; *Advances in Science, Technology and Innovation*; Volume 1846, Pages 13-25; 1 January 2026
2. Neves, O.; Mendes Águia, V.; Azevedo, R.; Almeida, A.; Santos, A.; Simões do Couto, F.; **Association Between Hair Lithium Levels and Suicide: A Case-Control Study**; *Archives of Suicide Research*; 1 January 2026
3. Gonçalves, A.R.P.; Ozkan, S.; Paulo, I.; Dehhaoui, S.; Silva, L.; Puna, J.; Gomes, J.; Galhano dos Santos, R.; **Acacia Melanoxylon: A pathway from an invasive species to renewable bio-oil via thermochemical conversion**; *Biomass and Bioenergy*; Volume 204, Article number 108414; 1 January 2026
4. Sitzia, F.; Pires, V.; Lisci, C.; Neves, S.; Mirão, J.; **Trentepohlia Algae as a Diagnostic Tool for Historic Mediterranean—Style Houses**; *Advances in Science, Technology and Innovation*; Volume 1846, Pages 3-11; 1 January 2026
5. Dias, A.P.S.; Salvador, É.; Pedra, I.; Serralha, F.; Pereira, M.F.C.; Nogueira, I.; Rijo, B.; **Iron-Starch Hydrochar Catalysts for Sustainable Biodiesel Production via Esterification**; *Waste and Biomass Valorization*; 1 January 2026
6. Coelho, S.; Dinis, M.D.L.; Freitas, M.; Baptista, J.S.; **Radiation Dose Reduction in CT Exams with Iterative and Deep Learning Reconstruction: A Systematic Review**; *Applied Sciences (Switzerland)*; Volume 16, Issue 1, Article 316; 1 January 2026
7. Neves, O.; Miranda, D.; Ventura, M.; Jesus, S.; Rego, A.; Coelho, I.; **Concerns Around Hard-Rock Lithium Mining Areas: Are they Real? A Portuguese Case Study**; *Advances in Science, Technology and Innovation*; Pages 399-403; 1 January 2026
8. Rijo, B.; Soares Dias, A.P.; **Recent advances in the characterization and applications of biochar and hydrochar**; *New Carbon Materials*; Volume 41, Issue 2, Pages 276-298; 30 April 2026
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Upcoming

16/07

CERENA Seminar hosted by Professor Maria de Lurdes Dinis

IST C13 | FEUP F405

23/07

CERENA Workshop COMSOL Multiphysics with Abeer Mohtar

Online Transmission

25/07

Ricardo Araújo participates in Festival Generation Science

Lisbon, Pavilhão do Conhecimento

6 - 8/10

4th Eage Conference on Seismic Inversion

Lisbon



7 - 9/10

4th International Conference on Nitric Oxide Therapeutics in Cancer and other diseases

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This month, we wish everyone a lovely holiday period. CERENA's newsletter will be back in September.

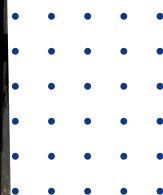


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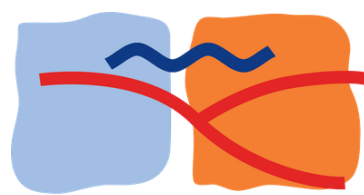


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