



DEAR PARTNERS,
Greetings from São Bernardo do Campo!

In this edition, Centro Universitário FEI shares recent milestones in its international engagement, from institutional visits and faculty exchanges to the achievements of students and alumni pursuing global careers. These stories reflect FEI's ongoing commitment to fostering academic mobility, research collaboration, and cross-cultural learning across its Community.

FEI Welcomes Northeastern University Students for the Sustainable Energy in Brazil Program

Centro Universitário FEI was selected as one of the academic institutions to host a visit as part of Northeastern University's Sustainable Energy in Brazil Program, welcoming Professor Courtney Pfluger, from Boston, United States.

The visit offered an exceptional opportunity for academic exchange and knowledge sharing. The Northeastern delegation toured FEI's facilities and laboratories and learned about projects developed by students from AIChE FEI, highlighting the institution's commitment to hands-on learning, innovation, and sustainable engineering.

As part of the experience, one FEI student was selected to join the Northeastern delegation for an in person hackathon in São Paulo, held from June 4 to 7, 2026, in partnership with ComBio Energia S.A. The initiative further strengthened the connection between academic knowledge, technological innovation, and real-world challenges in the energy sector. The visit to FEI marked an important moment of academic and cultural exchange, reinforcing the value of international collaboration in preparing future engineers to address the complex challenges of the global energy transition.



From left to right: Bruno Ramos, Courtney Pfluger, Julen Müller, and Rodrigo Condotta.



Strengthening Academic Cooperation: Vice-Rector Visits ICAM in France

From June 8th to 12th, 2026, Prof. Michelly de Souza, Vice-Rector for Extension and Community Affairs, represented FEI during a visit to three campuses of Icam – Institut Catholique d'Arts et Métiers, located in France. FEI and Icam share not only a Jesuit heritage but also a tradition of training engineers with a strong connection to the job market, and the two institutions have maintained a long-standing academic partnership. The visit followed an intensive schedule that included tours of laboratories and facilities, as well as meetings with directors and researchers to discuss the BRAFITEC project and explore ways to broaden this partnership beyond student exchange, extending it to joint research activities involving engineering faculty from both institutions.

The visit also provided the chance to meet FEI students Laura Caltabiano Alves and Lucca Suarez Rebechi, who are currently on exchange at Icam's Lille campus, as well as Icam student Clément Grimpel, who is preparing for his upcoming exchange at FEI. FEI extends its gratitude to Icam's International Relations coordinators, Céline Guerin, Sarrah Bouhmid, and Justine Helvig, and to directors Sophie Delpierre Huyghe, Nicolas Juhel, and Nicolas Mellier, for their warm welcome throughout the visit, which marks a promising step toward this closer, research-oriented collaboration between FEI and Icam.



From left to right: Clément Grimpel, Laura Caltabiano Alves, Prof. Michelly de Souza, Sarrah Bouhmid and Lucca Suarez Rebechi at Icam - Lille.



From left to right: Prof. Nicolas Mellier, Prof. Michelly de Souza and Miss Justine Helvig, at Icam – Grand Paris Sud.



Miss Céline Guerin and Prof. Michelly de Souza, at Icam – Strasbourg.

FEI Welcomes ISEL Delegation from Portugal

In April, FEI welcomed a delegation from the Instituto Superior de Engenharia de Lisboa (ISEL), Portugal, for an institutional visit focused on academic exchange and opportunities for international collaboration. The delegation included Prof. Dr. António João Nunes Serrador, Advisor for International Affairs, Projects, and Innovation; Prof. Dr. Carla Solange Pires Correia Viveiros, Vice-President for Pedagogical Affairs; and Prof. Dr. Patrícia Alexandra Miranda David Barata, Advisor for Sustainability and Innovation.



The visit included a meeting with FEI faculty and academic representatives, providing an opportunity to present FEI's undergraduate and graduate programs and exchange perspectives on academic development, internationalization, innovation, and sustainability. The ISEL representatives also presented their institution and shared its academic and institutional priorities.

The delegation subsequently took part in a guided tour of the FEI campus, including its laboratories and facilities, providing an opportunity to learn more about FEI's infrastructure and technological environment. The visit strengthened the relationship between FEI and ISEL and reinforced the importance of international partnerships in higher education for fostering academic exchange, institutional cooperation, and future collaborative initiatives.



FEI Professor Invited to Speak at IEEE WOLTE 2026 in Italy



From May 31st to June 6th, Prof. Michelly de Souza, Full Professor and Researcher from the Department of Electrical Engineering, was honored to be an Invited Speaker at the 17th IEEE Workshop on Low-Temperature Electronics (WOLTE 2026), held in Giardini Naxos, Sicily, Italy. Now in its seventeenth edition, WOLTE has built a long-standing reputation as one of the leading forums dedicated to semiconducting and superconducting low-temperature electronics, bringing together specialists from around the globe under a distinctive single-track format that allows full participation in every session. In recent years, renewed interest in cryogenic technologies, driven by advances in quantum computing and space-based applications, has further expanded the workshop's scope to embrace quantum technologies alongside its traditional focus.

In this context, Prof. Michelly de Souza delivered a presentation entitled "Deep Cryogenic Operation of Single-Level and Stacked Nanowire and Nanosheet SOI MOSFETs for Quantum Computing," sharing the latest results of a collaborative research effort involving researchers from CEA-Leti, France, Prof. Marcelo Antonio Pavanello (FEI), and graduate students from FEI's research group. The talk explored how advanced electronic device architectures behave under extreme temperature conditions, highlighting their crucial role in paving the way for the future of quantum computing and high-performance technologies.

Professor from the University of Naples Federico II Visits FEI

From May 4 to 15, 2026, Prof. Dr. Francesco Taddeo from the Università degli Studi di Napoli Federico II, Italy, visited FEI to teach the course "Data Analysis for Reaction Engineering." The course was offered to undergraduate and graduate students in Chemical Engineering, providing an opportunity to deepen their knowledge of chemical kinetics, reactor design, kinetic model fitting, and experimental design, with practical applications using MS Excel.



Professor Taddeo also contributed to the graduate course Mathematical Methods in Chemical Engineering, taught by Professors Luís Fernando Novazzi and Gustavo Vieira Olivieri. His classes covered differential equation solving and optimization problems, supported by MATLAB.

Beyond the technical knowledge gained, the visit gave students the opportunity to practice academic communication in English and to engage in meaningful cultural and intellectual exchange with an international professor, strengthening FEI's academic internationalization and creating valuable opportunities for interaction between the FEI community and international researchers.



FEI Professor Participates in RoboCup@Home 2026

From June 30 to July 6, 2026, Prof. Fagner Pimentel, from FEI's Robotics Engineering program, participated in the technical and organizational committees of RoboCup@Home 2026, held at Songdo Convensia in Incheon, South Korea. This marked the first time the RoboCup was hosted in South Korea. The event brought together more than 3,000 researchers and competitors and approximately 15,000 visitors from around the world.



Known as the "World Cup of Robotics," RoboCup has brought together researchers, universities, and students since 1997 to advance the development of autonomous robots capable of performing complex tasks inspired by real-world scenarios. The competition serves as an international platform for innovation in robotics and artificial intelligence, particularly in areas such as perception, control, multi-agent cooperation, and autonomous systems.

Professor Fagner has contributed to RoboCup committees for more than ten years. His participation at the organizational and technical levels provides valuable international experience that can be brought back to FEI's Robotics Engineering program, contributing to the academic development and training of future robotics professionals.



FEI Professor Participates in International Meeting on Regenerative Leadership and Organizations in the Amazon



Prof. Aline Sacchi Homrich, from FEI's Graduate Program in Business Administration (PPGA-FEI), participated in the International Meeting of Leaders and Regenerative Organizations in the Amazon, held in Manaus, Brazil. The event brought together leading voices from science, innovation, sustainability, technology, and industry, connecting national and international academic knowledge with business leaders to discuss pathways toward more conscious and regenerative organizations.

As a member of the event's Scientific Committee, Professor Aline contributed to the academic discussions and also delivered a presentation entitled "Decarbonization and Artificial Intelligence: How AI Creates Practical Pathways for Decarbonization and Low-Carbon Models." Her contribution addressed the role of artificial intelligence in supporting practical strategies for decarbonization and the transition toward more sustainable business models.

Throughout the meeting, speakers and panel discussions explored key topics including bioeconomy, circularity, innovability, artificial intelligence, and strategic communication. By bringing these discussions to the heart of the Amazon, the event highlighted the region as an important hub for innovation, sustainability, and the development of new approaches to corporate transformation and planetary restoration.

The event was organized by Soul ESG and ABRAPS, with academic support from Universidade do Estado do Amazonas (UEA), CEPID Bridge, PPGA-FEI, and FIA Business School – Sustainability & Innovability, and institutional support from IDESAM, Aura Amazônia, and Amakos da Amazônia.

Advancing AI Research: FEI at the XAI World Conference



In July 2026, doctoral student Leonardo Antunes Ferreira had the opportunity to present part of the results of your Doctorate research at the 4th XAI World Conference, held in Fortaleza, Brazil, through an oral presentation of the paper From Pixels to Pain Scales: Robust Evaluation of Explainable AI in Neonatal Pain Detection. The work resulted from my Doctorate research period at Robert Gordon University (RGU), in Aberdeen, Scotland, and investigates the use of Explainable Artificial Intelligence techniques for neonatal pain assessment, with particular emphasis on the robustness and reliability of model explanations. Participating in the conference provided an opportunity to present and discuss the research with specialists from different institutions and countries, while exchanging perspectives

on interpretability, reliability, and the application of AI models in sensitive domains. These topics are becoming increasingly relevant given the evolving regulatory landscape surrounding responsible Artificial Intelligence and the growing demand for transparency and explainability, particularly in healthcare applications.

FEI Graduates Take Their Careers Global in a Trainee Program



From left to right: Gabriela Coronado Leite, Marcos Ladares, Erik Thadeu Martiniano, and Luiza Faria Ferrari.

Civil Engineer Gabriela Coronado Leite, who graduated from FEI in the second semester of 2024, moved to Canada this semester to continue the international stage of her trainee program at Acciona. The program, which began in Brazil, includes an international assignment designed to provide trainees with the opportunity to expand their professional experience in an international environment. Gabriela had already been working at the company since her internship.

Gabriela is not the only FEI Civil Engineering graduate taking part in the program. Other alumni are also pursuing international assignments as part of their professional development. Luiza Faria Ferrari and Erik Thadeu Martiniano, who graduated from FEI in the second semester of 2022 and 2023, respectively, have moved to the United States to begin this new stage of their careers.

The presence of several FEI students and alumni in Acciona's trainee program, one of the leading companies in the infrastructure sector, highlights the professional opportunities that can emerge from a strong academic foundation aligned with the demands and challenges of the market.

Also in Canada, Mechanical Engineer Marcos Ladares, who graduated from FEI in the second semester of 2022, is continuing the international stage of his trainee program at Acciona.

Gabriela shared some insights into her experience and explained how her education at FEI contributed to her professional journey:

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At Acciona, at IXPA and, especially, in the opportunity to work internationally, I would say that the skill that made the greatest difference was adaptability. In a major infrastructure project, the pace is intense and there are many variables, while an international transition brings additional challenges and requires us to step outside many of the patterns we are accustomed to. Throughout this process, FEI was essential. It was where I began to develop my adaptability and resilience, and this was only possible because of the environment FEI provides, giving students the time, space and conditions to learn and prepare for different situations.”

Gabriela's experience, along with the international journeys of other FEI alumni at Acciona, reflects the global reach of an education that prepares professionals to adapt, grow and take on new challenges. Their achievements also highlight the role of FEI in fostering not only strong technical knowledge, but also the resilience and adaptability needed to succeed in an increasingly dynamic and international professional environment.

FEI Takes First Place in the PTV Group Latin American Microsimulation Competition

Since 2021, PTV Group, a global leader in traffic planning and mobility simulation software, has hosted an annual microsimulation competition bringing together students and academics from universities across Latin America. Using PTV Vissim, participants develop innovative solutions to real-world urban mobility challenges, with projects evaluated on criteria such as technical feasibility, sustainability, and emissions reduction.

Centro Universitário FEI has participated since the competition's first edition and has consistently achieved outstanding results:



- **2021** | 2nd place — Complete Streets
- **2022** | 4th place and Best Advisor Award
- **2023** | 2nd place — Inclusive Bicycle Mobility
- **2024** | 3rd place, plus a Special Award and an Honorable Mention
- **2025** | 3rd place, plus an Honorable Mention
- **2026** | 1st place, achieved by FEI students Giulia Rodrigues de Oliveira and Luisa Bacelar Schirmer Vasconcelos

In the 2026 edition, FEI took the top position ahead of teams from Peru and Colombia, marking the institution's strongest result in the competition to date.

FEI's participation has been led since 2021 by Professor Fernando Cesar Dias Ribeiro, with support from Professor Rafael Castelo, both faculty members of the Civil Engineering program.

Learning Beyond the Classroom

More than a competition, the initiative provides FEI students with hands-on experience in technologies used by the transportation and mobility industry. By working on real-world challenges, students develop technical skills while considering the broader impact of engineering decisions on sustainability, urban mobility, economic feasibility, and quality of life.

The continued success of FEI teams demonstrates the strength of the institution's approach to combining academic knowledge, professional tools, innovation, and real-world problem solving in the education of future civil engineers.

From FEI to an International Career in Applied Mechanics



FEI alumnus Paulo Libório graduated with a degree in Mechanical Engineering from FEI at the end of 2023. Following his undergraduate studies, he was admitted to the MSc in Applied Mechanics at Chalmers University of Technology, Sweden, which he began in September 2024.

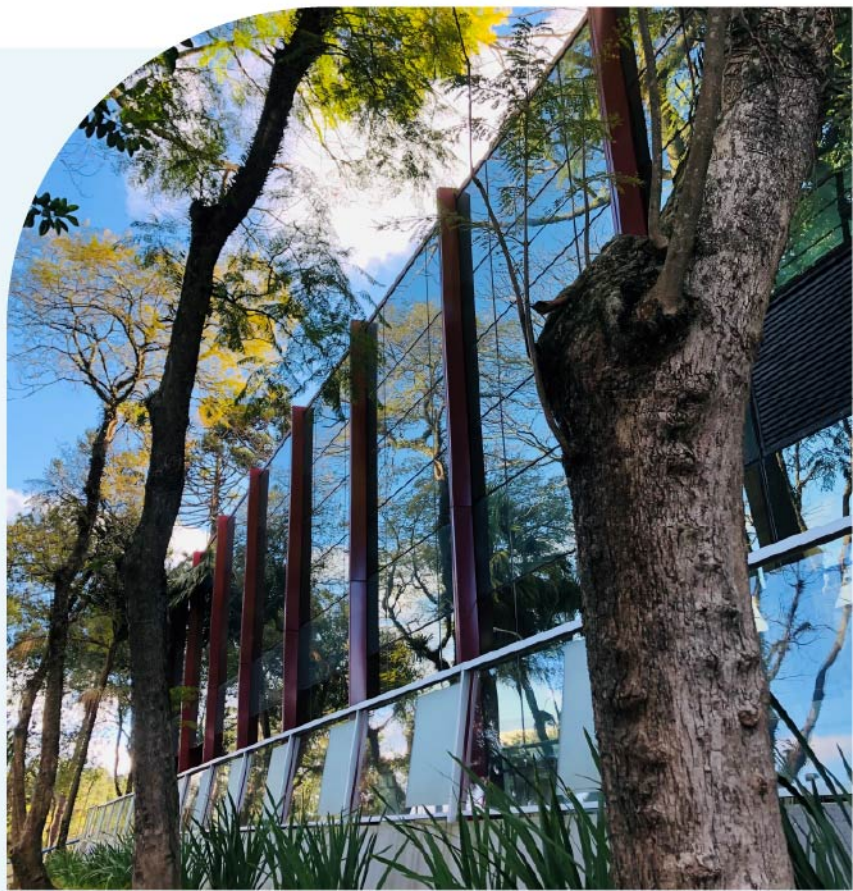
In June 2026, Paulo completed his master's thesis, which was developed in collaboration with industry. The project provided an opportunity to apply advanced academic knowledge to a real-world engineering context and ultimately led to his recruitment by the industry partner following the completion of his degree.

This international academic and professional achievement was supported by the guidance and encouragement of several FEI faculty members. Professor Mohammad, Paulo's supervisor during his Didactic Initiation project, played a key role in encouraging him to pursue an international academic career. Professor Mauro de Souza also provided valuable guidance by sharing his international experience and offering insights into the European graduate-school application process.

Paulo also acknowledges the contribution of Professor Fabrizzio Leonardi, his undergraduate thesis advisor, who, together with Professor Mohammad, provided essential letters of recommendation for his applications to international graduate programs.

Paulo's trajectory highlights the role of academic mentorship, international opportunities, and industry collaboration in supporting FEI graduates as they pursue advanced education and professional careers abroad.

As we close another semester, we celebrate the achievements, the challenges overcome, and the progress built collectively by our academic community. We extend our sincere thanks to all the students, faculty, staff, and partners who contributed to FEI's internationalization throughout this journey. May the next semester be marked by new opportunities, learning, and accomplishments. We look forward to sharing further updates in our next edition, scheduled for December 2026.





JESUÍTAS BRASIL

