



International call: 02 open positions
Postdoctoral Researcher (expected start: May 2025)
Research areas: Artificial/computational intelligence and data science for industry

Center for Applied Research in Artificial Intelligence for Industry 4.0 (CPA-IA)
Linked Postgraduate Programs: Stricto Sensu in Computational Modelling and Industrial Technology (MCTI) and Industrial Management and Technology (GETEC)
SENAI CIMATEC - Salvador, Brazil

SENAI CIMATEC

SENAI CIMATEC is recognised as one of Brazil's leading centres of excellence in education, science, technology and innovation. Located in Salvador, Bahia, the institution stands out for its innovative approach that integrates technology into all its operations. This model allows it to transform challenges into opportunities, creating future scenarios through a collaborative and dynamic ecosystem.

Its infrastructure includes a Technology Centre, a University and a Technical School, meeting the country's industrial and business needs. With 42 areas of expertise and 56 state-of-the-art laboratories spread over 35,000 m², SENAI CIMATEC offers an ideal environment for developing innovative solutions.

Renowned for its strong performance in Research, Development and Innovation (RD&I), the institution conducts projects of varying complexity. In collaboration with national and international partners, it has secured significant investments in RD&I, resulting in a high number of patents and a robust presence in scientific publications. It actively participates in sectors such as automation, biotechnology, nanotechnology and renewable energies, contributing to the technological advancement of Brazilian industry.

Looking to the future, SENAI CIMATEC remains committed to expanding its contributions to promoting innovation and technology, seeking to increase the competitiveness of Brazilian industry on the global stage. Through strategic partnerships focused on excellence, the institution remains a benchmark in education and innovation, both nationally and internationally.

This continuous expansion and commitment to excellence reinforces SENAI CIMATEC's role as a leader in its field and a catalyst for economic and social transformation, driving sustainable development and industrial competitiveness in Brazil.

THE PROJECT

Title: H4I - Hub of New Digital Technologies for Industry: An open multi-user digital platform for Data Science and Artificial Intelligence for Industry 4.0

Supervisors: Professors Davidson Martins Moreira and Antônio J. Silva Neto / SENAI CIMATEC University

Background: The project aims to create a New Digital Technologies Hub consisting of an open, multi-user digital data science and AI platform to modernise Brazilian industry, bringing it into line with international Industry 4.0 standards and increasing its competitiveness. As an initiative of the CPA-IA for the Industry 4.0, it is currently under development, benefiting industries of all sizes by accelerating innovation processes. The platform will allow companies to incorporate tools into their own infrastructure if they wish. Specific solutions can be created for various sectors, including predictive maintenance and optimization of industrial processes. In addition, it will function as a shared environment for integrated projects, promoting collaboration between researchers, companies and students, increasing the adoption of AI in Brazil.

SCHOLARSHIP

Monthly amount: R\$12,000.00 (BRL)

The grant is awarded for an initial period of 48 months, with continuity assessed every 12 months.

IMPORTANT DATES

Deadline for applications: March 31st, 2025

Interviews: April 07th to 18th, 2025

Final results: April 21st, 2025

REQUIREMENTS

- PhD in Engineering, Physics, Computer Science, Mathematics or related areas;
- Experience in participating in interdisciplinary projects;
- Expertise in scientific computing and high-performance computing;

- Ability to work autonomously and as part of a team; and
- Proficiency in written and spoken English.

DUTIES

Lead/contribute to research and human resources training activities at postgraduate level within the scope of the CPA-IA, at the request/coordination of the supervisors.

DOCUMENTS REQUIRED FOR ENROLMENT

- Curriculum Vitae with supporting documents attached;
- 2 letters of reference from researchers and/or employers; and
- Personal cover letter, including the reason for your interest in the position (limit two pages). If you use AI tools, this should be explained in the document.

Note: other documents may be requested during the process.

ASSESSMENT CRITERIA

- Academic training at undergraduate and postgraduate level, professional performance in the areas of interest of the call for proposals, scientific publications and technological production (weight 60%);
- Interview (weight 40%).

REGISTRATION

Link:

<https://www.universidadesenaicimatec.edu.br/en/>

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