

TECHNOLOGY

The Agency is the main body that implements the policy for the protection and transfer of intellectual property technology at the Federal University of Sergipe.

Innovation and Technology Transfer Agency (AGITTE) - Federal University of Sergipe (UFS)

AGITTE is responsible for the dissemination of Innovation, management of knowledge protection processes arising from academic research, technology licensing, and the promotion of partnerships between companies and UFS so that the knowledge produced at the institution provides benefits to society.

AGITTE Intellectual Property Indicators

- 682 intellectual property assets at the INPI
- 329 Patents filed
- 3 licensed Technologies
- + 1,200 Students trained in innovation and technological development
- 17 Startups generated
- 21 Patents granted

Center for Technological Innovation (NIT) – Federal Institute of Education, Science and Technology of Sergipe (IFS)

The Technological Innovation Center (NIT) acts as a link between the IFS and public and private organizations, presenting innovative solutions to meet the demands of the external community, establishing partnerships, and fostering technological and social cooperation.

The NIT develops numerous projects in the areas of research, extension, and innovation, through calls for proposals to promote science and technology, covering different areas of knowledge and activities that have direct application for the community or meet market demands.

Tiradentes Innovation Center (TIC) - Tiradentes University (UNIT)

The Tiradentes Innovation Center is a pioneer in Brazil and Latin America as an innovation center focused on education through the dissemination of entrepreneurial and innovative culture.

TIC seeks to experiment, foster, invest in, and develop ideas, initiatives, and projects related to the future of education and new professions.

Working with the themes of education, innovation, creativity, entrepreneurship, maker culture, and technology, the center seeks to generate, refine ideas, stimulate local entrepreneurship, inspire people, rethink education, strengthen and improve the regional market, and collaborate with the future of professions.

Tiradentes Innovation Center has a coworking space for startups, private rooms, meeting spots (private meeting booths), a relaxation room, video conference rooms, classroom laboratories, indoor and outdoor arenas, a multipurpose open space, and an experimental and prototyping laboratory (Fab Lab).

Institute of Technology and Research-ITP(UNIT)

The Institute of Technology and Research (ITP), over two decades of existence, has been working in several areas of knowledge through the development of research and innovation. During this time, the Institute has approved more than 500 projects with different institutions that promote research and innovation in the country.

ITP has 37 researchers, 23 research laboratories (in Sergipe and Alagoas' campi), and three more exclusively for service provision. ITP works in the areas of Energy, Environment, Biotechnology, Engineering, Education, Law, Health, and Social Technologies. The Institute provides a Paid Use Agreement that makes the infrastructure and



equipment park available for Startups to support them in the development and scaling of their technology.

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Intellectual Property Indicators of ITP

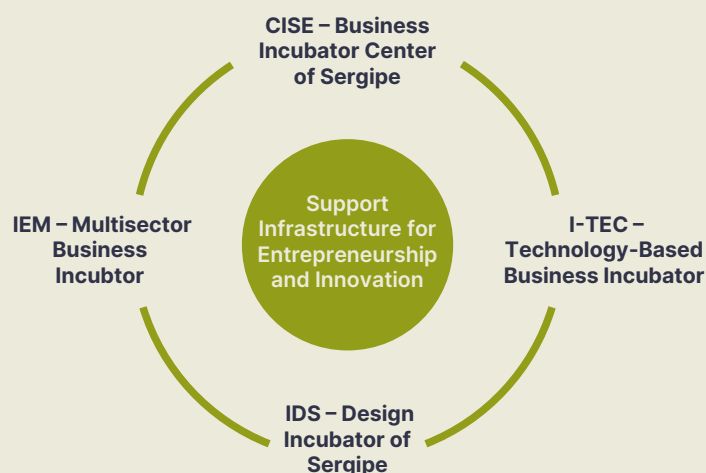
- 682 intellectual property assets registered with INPI
- 168 patents filed
- 1 technology licensed (2 technology orders completed and 1 under negotiation)
- 225 students trained in innovation and technological development
- 5 startups created
- 27 patents granted

Sergipe Technology Park (SERGIPETEC)

Sergipe Technology Park was founded in 2004 and has since contributed to technology and innovation in Sergipe. The Park operates across five areas: Biotechnology, Energy and Sustainability, Information and Communication Technology (ICT), Entrepreneurship and Innovation, and Social Projects.

An important driver of innovation is its incubators. SERGIPETEC hosts four incubators within its ecosystem, enabling entrepreneurs with innovative projects to work, share ideas, receive mentorship, and access a network of

investors, universities, and partners to accelerate their businesses.



Sergipetec – Biotechnology

The Park has a Natural Enemies Production Unit where seedlings of native species from the Caatinga and Atlantic Forest biomes are produced, with various purposes ranging from family farming to reforestation, restoration of riparian forests, and urban and rural afforestation.

At the biofactory, projects include:

- Reforestation and afforestation of degraded areas and riparian forests
- Research on genetically modified sugarcane (*Saccharum officinarum*) seedling varieties with productive potential and phytosanitary resistance
- Production and establishment of forage cacti resistant to major pests affecting the crop, such as the cochineal (*Dactylopius coccus*)

Sergipetec – Energy and Sustainability. Projects in these areas are distributed across the following fields:

- ① Energy efficiency
- ② Energy planning
- ③ Wind energy
- ④ Biomass energy
- ⑤ Carbon sequestration and credits
- ⑥ Solar energy
- ⑦ Bioenergy



Foundation for the Support of Research and Technological Innovation of the State of Sergipe (FAPITEC)

The Foundation for the Support of Research and Technological Innovation of the State of Sergipe (FAPITEC) is a public foundation linked to the State Secretariat for Economic Development and Science and Technology (SEDETEC). Its primary mission is to promote and support the development of scientific and technological research and innovation in Sergipe.

Among various programs and calls for proposals to foster innovation, science, and technology, two stand out: Centelha-SE and Tecnova-SE.

Centelha-SE

Centelha-SE encourages innovative entrepreneurship through training and capacity-building programs focused on the development of products (goods and/or services) or innovative processes. It also supports the creation of technology-based companies by transforming innovative ideas into businesses that incorporate new technologies into Sergipe's strategic economic sectors.

The Centelha program provides support through non-repayable financial grants (economic subsidies) and scholarships for technological development and innovative outreach.

Tecnova-SE

The objective of Tecnova-SE is to stimulate increased innovation activities within companies based in Sergipe.

The current edition – Tecnova III – targets the following strategic areas: Energy Transition; Oil and Gas; Agriculture; Health, Biotechnology, Education; and Digital Transformation.

Brazilian Micro and Small Business Support Service (SEBRAE)

SEBRAE is a private, non-profit Brazilian institution dedicated to empowering and promoting the economic development and competitiveness of micro and small enterprises, while also fostering entrepreneurship. Among the many projects

and programs carried out by the institution, one stands out:

1. Startup Nordeste Program

SEBRAE in Sergipe runs the Startup Acceleration Program, aimed at strengthening the innovation ecosystem in Sergipe and training early-stage technology-based entrepreneurs.

The program offers startups access to high-quality acceleration resources, including mentorships, national and international references, networking opportunities, and personalized business development support.

Sergipe as a Logistics Hub

Startup Nordeste Program

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Local Innovation Agents (ALI)

A program for micro and small businesses seeking to innovate and improve their management practices, focusing on productivity, revenue growth, and cost reduction. ALI offers free assistance in implementing innovative practices within small enterprises.

EMPRETEC

Empretec is the world's leading entrepreneurial training program, created by the United Nations (UN). It focuses on developing entrepreneurial behavior by enhancing the skills and abilities that shape a strong entrepreneurial identity.

Startups are usually small businesses with innovative ideas related to the following thematic areas:

- Education
- Health
- Environment (water, sewage, biomes, etc.)
- Energy (renewable clean energy such as



solar and wind, etc.)

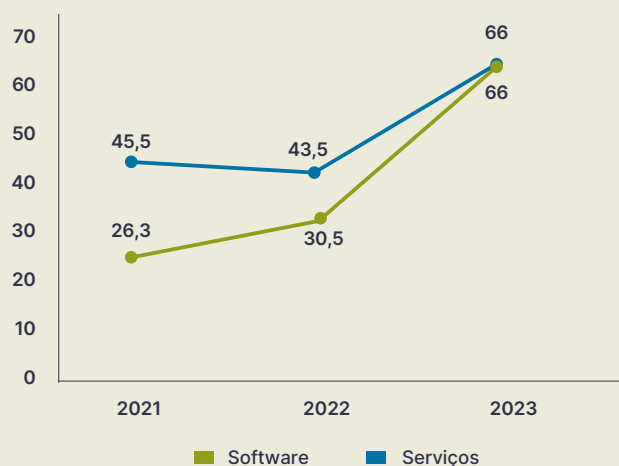
- Agribusiness
- Tourism
- Finance
- Logistics
- Technologies (IoT, data, biotechnology, nanotechnology, robotics, etc.)

Technology: Software and Services Market in Sergipe

Between 2021 and 2023, the software segment grew by 45.1%, and the technology services segment by 151%. The year 2023 marks a significant milestone for the sector, with both revenue streams converging and each reaching USD 66 million.

This parity suggests a maturing market, where both software and services play a major role in generating revenue and employment in Sergipe. The results strengthen the local technology and innovation ecosystem in the state.

Sergipe: Software and Services Market Revenue (USD millions) (2021–2023)



Source: ABES – Brazilian Software Market: Overview and Trends

Technology: Startups in Sergipe

Sergipe is an emerging state in the Brazilian startup landscape. It presents a diverse and promising environment, especially in the fields of the creative economy and information

technology.

The capital, Aracaju, is the hub of this entrepreneurial activity, concentrating a significant portion of the state's startups. In 2024, the Brazilian Micro and Small Business Support Service (SEBRAE) mapped 146 startups in Sergipe at various stages of development.

- 146 Startups mapped in 2024
- 12 Sectors
- 24 Cities

Source: Startup Observatory – Science, Technology and Innovation Department of SE

Main Segments of the Mapped Startups

- Health and Wellness
- Technology
- Education
- Agribusiness
- Construction

Creative Economy Startups

The ecosystem of creative startups in Sergipe is experiencing a unique moment of investment opportunity, with 35 mapped startups. This emerging scenario offers attractive possibilities for investors looking to enter a developing market with high growth potential.

Segments of Creative Economy Startups in Sergipe

- Information Technology
- Games and Entertainment
- Fashion and Clothing
- Communication and Media

Data Centers

Sergipe has great potential to attract large-scale data center investments due to its strategic location in the Northeast of Brazil, robust energy infrastructure, and competitive tax incentives. The state has a diversified energy matrix, including renewable sources such as solar and wind, ensuring security and competitiveness in energy supply—a critical factor for data center operations.



Additionally, digital connectivity is expanding, with the presence of fiber optic networks that enable low latency in data transmission. The state government is also committed to promoting a favorable environment for the digital economy through innovation policies and support for new ventures. These conditions make Sergipe a promising destination for companies seeking reliable and sustainable infrastructure for data center installation.

Infrastructure for Data Centers

1. Energy:

More than 90% of the energy produced in Sergipe is clean and renewable. Moreover, the EPE (Energy Research Company) recently released a technical note with studies on connection points for electric power transmission, with capacity margins to receive hydrogen, and data center projects. Among the potential locations is the state of Sergipe, with a possible supply of 1.2 GW to 2 GW at the Porto de Sergipe substation. (Check our sector book for details)

2. Connectivity/Cabling:

Our terrestrial and submarine fiber cabling open data can be consulted on the Fiber Open Data platform by the International Telecommunication Union. The main connectivity points in the state are located less than 20 km from the port/substation area of Porto de Sergipe. In addition, they are easily accessible, as most are near highways such as BR 101 and BR 235, as well as the metropolitan area of Aracaju.

3. Areas for Data Center Installation:

Currently, the State of Sergipe is working to implement an industrial complex in its port zone/around the Porto de Sergipe substation, with plans to recreate a ZPE (Export Processing Zone) in the municipalities of Barra dos Coqueiros and Santo Amaro das Brotas. There is the possibility of land being granted or acquired. In addition to these areas, other suitable locations for data center installation may also be considered.

4. Infrastructure – Water:

In the area below, there is the Marituba aquifer, located in the Marituba State Park, which has good-quality water and can produce 200 to 300 thousand liters per hour from a single tubular well. There is the possibility of direct water capture from the aquifer, ideal for cooling data centers.





SERGIPE
GOVERNO DO ESTADO

DESENVOLVE-SE
AGÊNCIA SERGIPE DE DESENVOLVIMENTO