

## **ABOUT SENAI**

SENAI's Institute for Innovation and Technology develops innovative solutions for Technology and Engineering fields, focusing on electronics, mechanical, computer & IT, food and beverage, environment, renewable energies, pulp and paper, pharmaceuticals, chemistry and cosmetics segments.

## **Summer Internship Placements at SENAI**

The internship offer at SENAI-SP aims to complement the student's journey with practical activities through an internship with the industry. Solutions to real problems, always related to the student's field of study, should be built through permanent contact with the institution's technical staff. Teamwork and the willingness to learn will be fundamental for this professional and international immersion.

SENAI is offering internship positions for students on the following fields of study:

- Biochemical Engineering;
- Biomedical Engineering;
- Biotechnology;
- Chemical Engineering;
- Civil Engineering;
- Computer Engineering;
- Computer Science;
- Control and Automation Engineering;
- Electrical Engineering;
- Energy Engineering;
- Environmental Engineering;
- Food Engineering/Science;
- Industrial Engineering;
- Material Engineering/Science;
- Mechanical Engineering;
- Systems Engineering;
- Software Engineering

Aiming at the most productive and immersive experience for the students, the summer internship positions will be customized according to the students' profile, skills, and interests. However, we can anticipate some activities that will be common for students in some specific areas.

## **Internship main activities:**

### **1. Civil Engineering**

The internship positions will take place at 'Escola SENAI' and the students will support ongoing projects with SENAI's partner companies.

The Civil Engineering department at 'Escola SENAI' deals with Building Information Modeling; Lean Construction and Consulting and Advisory services for Civil Engineering.

#### Internship macro activities:

- Metrology
- Technological consultancy
- Research and development

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

### **2. Industrial Engineering | Automation Engineering | Mechanical Engineering | Mechatronics | Electrical Engineering | Energy | Systems and Software Engineering | Computer Science | Computer Engineering (focused on Automation, 4.0 Industry, Entrepreneurship, IT, Innovation and Cybersecurity)**

The internship positions will take place at 'IST', SENAI's Technological Institute and students will support ongoing projects focused on Industry 4.0, developing complete solutions for Industry.

#### Internship macro activities:

- Metrology
- Technological consultancy
- Research and development
- Specialized Technical Services

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

### **3. Mechanical Engineering | Automotive**

The internship positions will take place at 'Escola SENAI' and the students will support ongoing projects with SENAI's partner companies.

Students will be working with projects related to automotive systems, electric and hybrid vehicles and internal combustion engines. SENAI's main goal is to offer the students the opportunity to experience an up-to-date overview of the general concepts of electro-mobility and the technologies available in the electric and hybrid vehicle segment.

Internship activities:

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

#### **4. Biochemical, Biomedical, Biotechnology**

The internship positions will take place at 'ISI', SENAI's Innovation Institute in Biotechnology. The 'ISI' is part of a network of institutes created to be a bridge between universities and the needs of the business community. Its works focus on applied research, the use of knowledge in a practical way, the development of new products and customized solutions for companies to generate business opportunities.

Internship macro activities:

- Bioprocesses using wild microorganisms and GMOs
- Bioprocesses using primary and secondary animal cells
- Genetic engineering and development of biomolecules
- Intelligent bio-based products

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

#### **5. Computer Science | Computer Engineering | Electrical Engineering | Industrial Engineering | Energy | Systems and Software Engineering (focused on Textile, Apparel and Fashion)**

The internship positions will take place at 'IST', SENAI's Technological Institute and students will support ongoing projects focused on Innovation and Technology; Fashion Design; Product Prototyping and Development; Management of Productive Processes; Testing Lab.

Internship macro activities:

- Metrology
- Technological consultancy

- Research and development
- Specialized Technical Services

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

## **6. Chemistry | Chemical Engineering | Environmental Engineering | Materials Science**

The internship positions will take place at 'IST', SENAI's Technological Institute in Chemistry and Environment, certified by SATRA Technology and students will support ongoing projects focused on the footwear industry.

### Internship macro activities:

- Metrology
- Technological consultancy
- Research and development
- Specialized Technical Services

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

## **7. Food Engineering**

The internship positions will take place at 'ISTAB', SENAI's Technological Institute in Food and Beverage, reference in shelf life in Brazil. The 'ISTAB' counts on more than 30 laboratories and pilot plants, to serve several segments of the sector.

### Internship macro activities:

- Metrology
- Technological consultancy
- Research and development
- Specialized Technical Services

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.

## **8. Electrical Engineering | Industrial Engineering | Electronics | Management Engineering**

The internship positions will take place at 'IST', SENAI's Technological Institute and students will support ongoing projects focused on Industrial Electronics Technology; Facilities Management; Power Electronics for Industrial Systems.

### Internship macro activities:

- Metrology

- Technological consultancy
- Research and development
- Specialized Technical Services

\*Information about the ongoing projects and a more detailed description of the internship activities will be shared after the analysis of the student's profile, looking for the best match between the projects and the student's interests and skills.