

What Industrial Engineers Do

A UIS Industrial Engineer will be able to generate change for the benefit of society pertaining to scenarios such as the following:



- Companies and institutions in the industrial, commercial and service sectors, public or private, in management positions in the organization such as general management and managers of functional areas.
- Project and engineering offices performing advisories and management consultations.
- Entrepreneurial activities in various fields, which contribute to the social, political, environmental, technological and economic development of the country.

Curriculum of Industrial Engineering

- Calculus I
 - Basic Chemistry
 - Linear Algebra I
 - Descriptive geometry
 - Language Workshop
 - University Life and Culture
- Calculus II
 - Physics I
 - Biology for Engineers
 - Sports and Physical Training
 - Computing Programming
 - Introduction to Industrial Engineering

- Analytical Mechanics
 - Calculus III
 - Physics II
 - English I
 - Economic Environment
 - Free Choice Courses

- Differential Equations
 - Thermodynamics
 - Physics III
 - English II
 - Accounting Management

- Basic Electricity and Electronics
 - Material Science
 - Statistics I
 - Costs
 - Business Administration I
 - Free Choice Courses

- Statistics II
 - Research Operations I
 - Industrial Processes
 - Economic Engineering
 - Principles of Marketing
 - Business Administration II

- Statistics III
 - Research Operations II
 - Management Operations I
 - Finance and Budgeting
 - Market Research

- Quality Engineering
 - Management Operations II
 - Occupational Safety and Health
 - Information Systems
 - Human Resources
 - Project Formulation and Evaluation

- Integrated Logistics
 - Production Systems Designs
 - Graduation Project I
 - Elective Courses

- Graduation Project II
 - Elective Courses

More information about the program can be found at www.uis.edu.co
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INDUSTRIAL ENGINEERING

The Universidad Industrial de Santander (UIS) is a Higher Education Institution subjected to inspection and supervised by the National Ministry of Education



www.uis.edu.co



SNIES CODE (Higher Education National Information System): 700

Current Qualified Registration: 13216, valid since July 17, 2020.

High Quality Accreditation: Resolution No. 13216 since July 17, 2020 of the MEN

Job Title: Industrial Engineer.

Program duration: 10 academic semesters.

Program location: Bucaramanga

Institucional Information

98 research groups recognized by Colciencias

84 UIS patents, 12 of them international

More than **50%** of our **tenured professors** hold a **Ph.D. degree.**

276 UIS researchers recognized by Colciencias in different categories

7 artistic groups made up of students

Guatiguará is the most complete technology park in Colombia

Sports groups made up of students

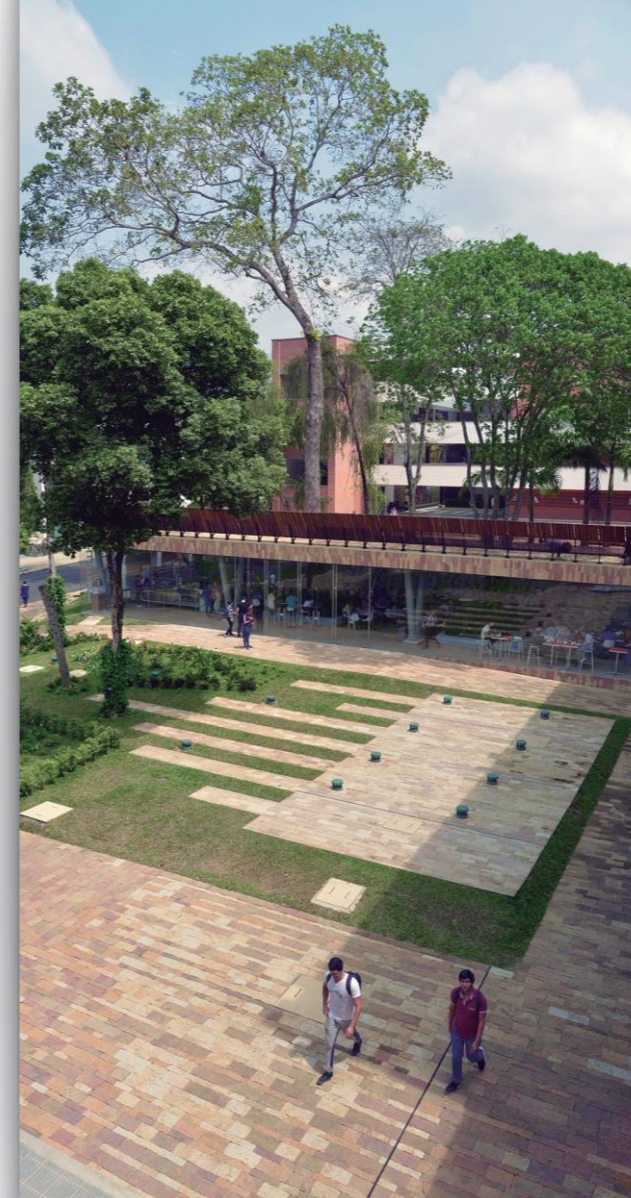
Economic and financial **incentives**

University **dinning facilities**



Student profile

- Analytical, deductive, reflective capacity, critique and synthesis.
- Aptitude and interest in basic sciences, technology and business processes.
- Ability to communicate orally and through writing.
- Cultural identity and interest in expanding their horizons towards globalization.
- Ability to organize, coordinate and work in a team.
- Ability to build relationships of respect and trust with others.
- Self-confidence, ability to make decisions and take on challenges.
- Initiative, creative capacity, ethical commitment and social responsibility
- Ability to communicate in a second language.
- Ability to apply knowledge to the practice, to learn and work autonomously, as well as to act in various situational contexts.
- Ability to formulate, manage and evaluate projects with high quality standards.



Professional profile

- Design, undertake, direct, improve and innovate processes that generate goods and services, to increase productivity and profitability of organizations respecting the human being and his or her environment.
- Apply the knowledge acquired about basic sciences and engineering in diagnosis and problem solving in organizations under ethical principles and the regulatory framework of the country.
- Manage processes considering technical, technological and scientific criterion to generate goods and services of high-quality standards.
- Manage the financial resources of the organization carrying out timely management to obtain higher levels of profitability.
- Lead organizations in the public and private sectors, through the effective work of teams applying the principles of the theory or oral communication and its knowledge in a second language, to impact the local, national, and international media.
- Be strategic starting from the formulation to the execution of plans and projects in which one participates.
- Permanently seek the full development of their potential with social commitment.