

# Focus on Americas

## Universidad del Norte : Educating to Transform

**Javier Páez**

Dean of College of Engineering



Located on the Caribbean Sea  
(Colombian Northern Coast)

“Golden Gate” of Colombia

Ranked **fourth** among major Colombian cities, and **first** in the Caribbean Region

Population: 1.230.431 (2016)

Major sea and river port of Colombia







| <b>TOP 10 LARGE SOUTH AMERICAN STATES OF THE FUTURE 2016/17 – OVERALL</b> |                  |                |
|---|------------------|----------------|
| <b>RANK</b>   | <b>STATE</b>     | <b>COUNTRY</b> |
| 1   | Buenos Aires AC  | Argentina      |
| 2   | Atlantico        | Colombia       |
| 3   | Pichincha        | Ecuador        |
| 4   | Santa Fé         | Argentina      |
| 5   | Cordoba          | Argentina      |
| 6   | Federal District | Brazil         |
| 7   | Bolivar          | Colombia       |
| 8   | Cundinamarca     | Colombia       |
| 9   | Valparaiso       | Chile          |
| 10  | Santander        | Colombia       |

Source: fDi Intelligence - British Magazine Financial Times

**21th Place in the Ranking of The Best Cities for Doing Business in Latin America.**

Source: América Economía



It was established in 1966

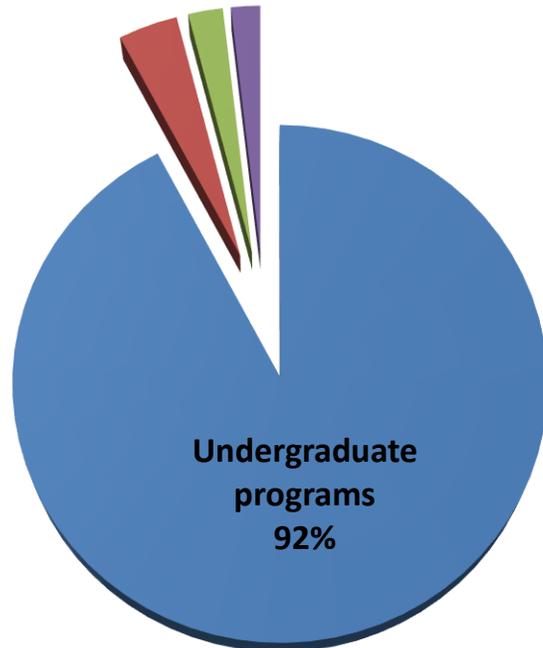
It is a private non-profit  
institution

The University was the 4<sup>th</sup> one to  
receive the High Quality  
Accreditation by the CNA  
(National Accreditation Agency) in  
2003

**6**

**Undergraduate programs**

*3.730 students*



**5 years / 155 Credits**



**Civil Engineering**

*945 Students*



**Systems Engineering**

*380 Students*



**Electrical Engineering**

*306 Students*



**Electronics Engineering**

*330 Students*



**Industrial Engineering**

*1.071 Students*



**Mechanical Engineering**

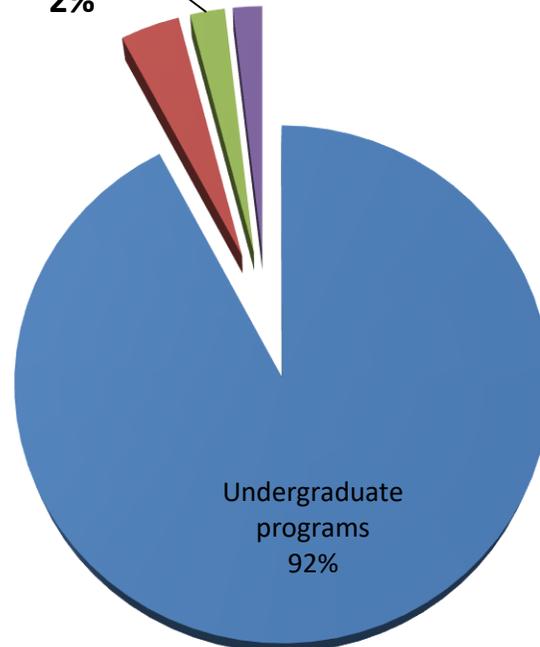
*698 Students*

6

Master of Science

88 Students

Master of  
Science  
2%



3 Semesters



MSc. In Civil Engineering



MSc. in Systems Engineering



MSc. in Electrical Engineering



MSc. in Electronics Engineering



MSc. In Industrial Engineering

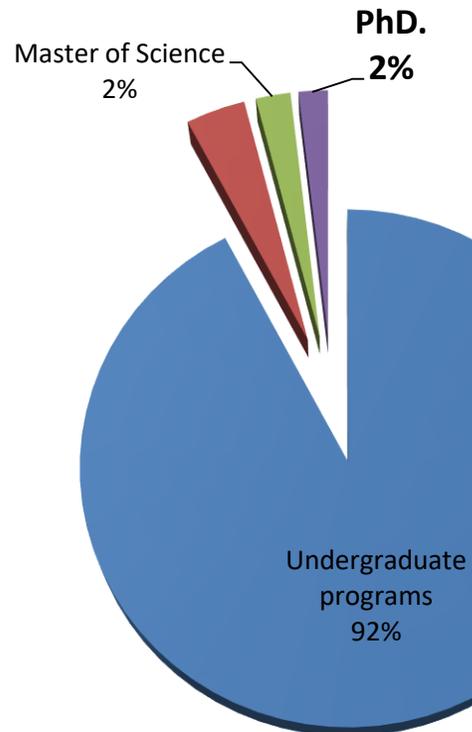


MSc. In Mecanical Engineering

5

PhD.

74 Students



4 Years



Civil Engineering



Systems Engineering



Electrical and Electronics Engineering



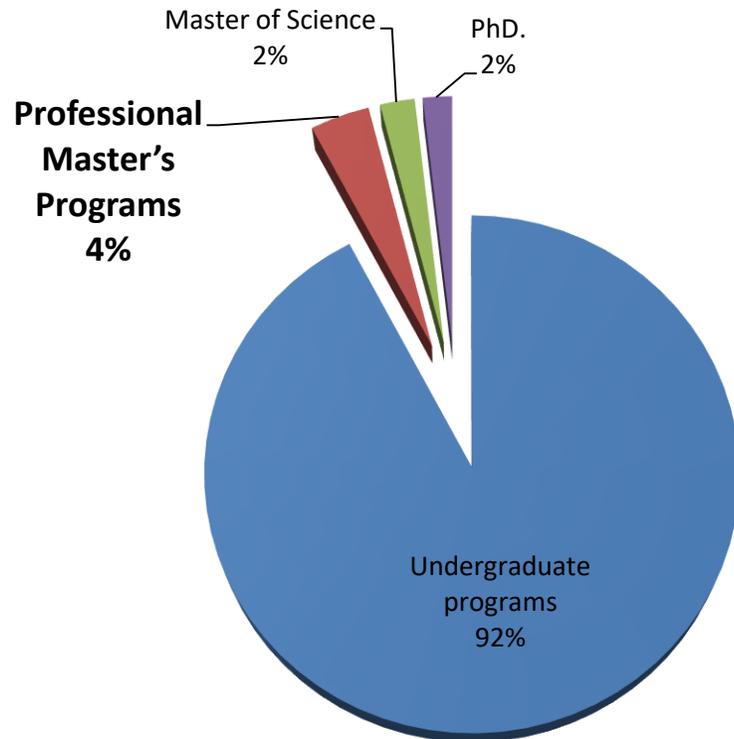
Industrial Engineering



Mecanical Engineering

## 4 Professional Master's Programs

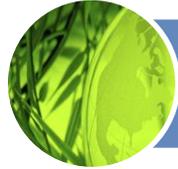
151 Students



4 Semesters



Master of Engineering Management



Master of Environmental Engineering



Master of Telemathics and Telecommunications.



Master of Information Technology Governance



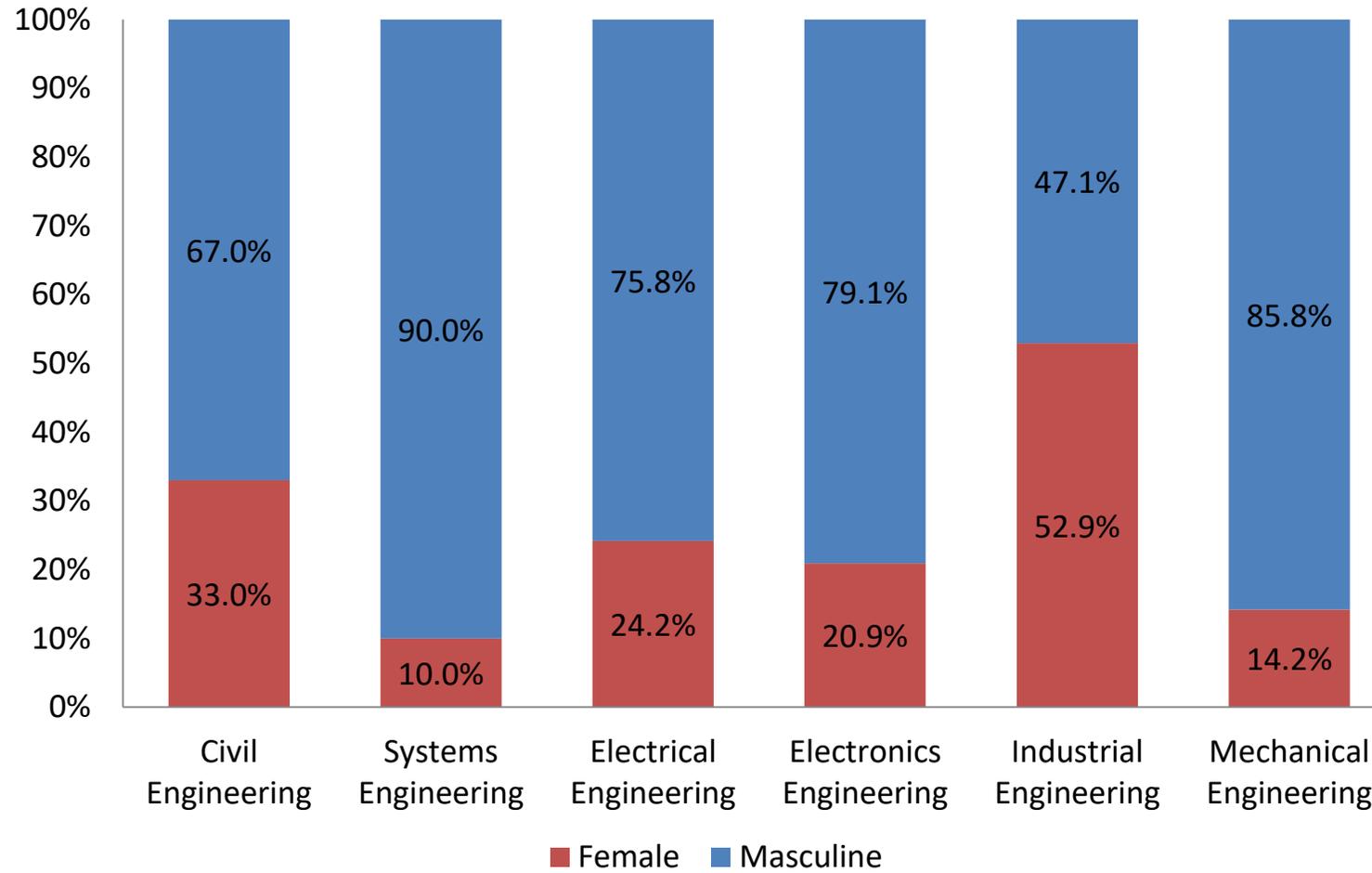
**2010**



Engineering  
Accreditation  
Commission

**2016**

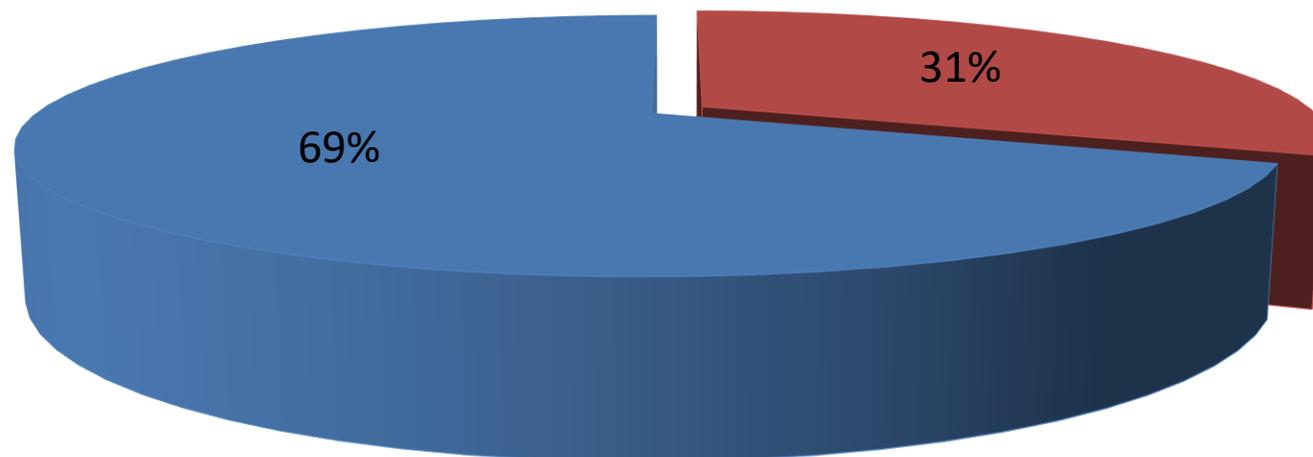
# Gender Distribution



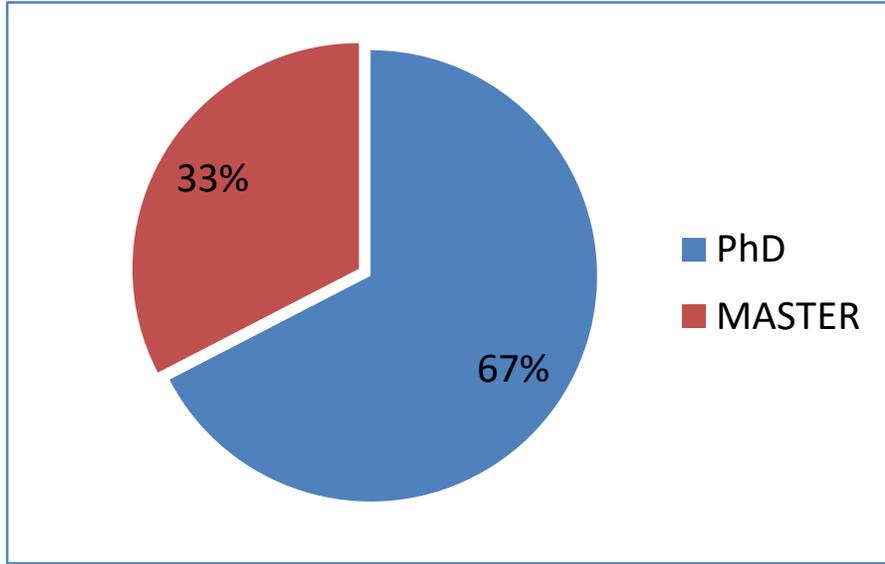
# Gender Distribution

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■ Female ■ Masculine

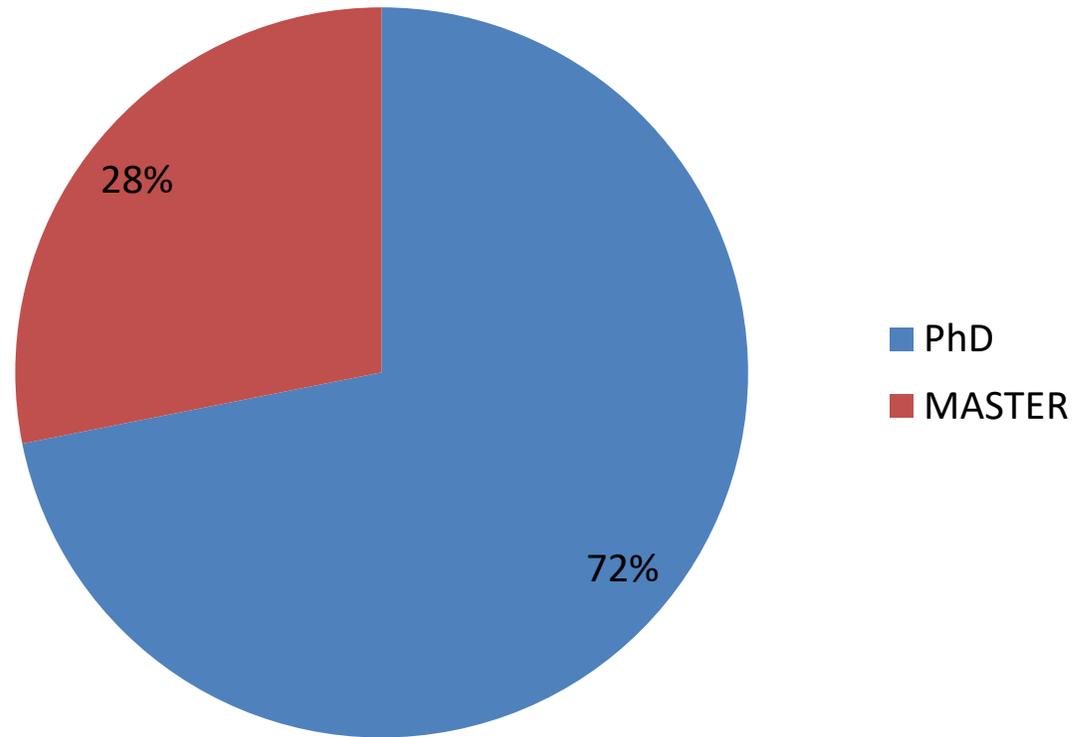


# Faculty Higher Degree Distribution



# Faculty Higher Degree Distribution

2019



# Faculty Members Studying PhD Programs

**Eng. Jorge Archbold**  
Civil Engineering  
*University of California*  
USA

**Ing. Daniela Martínez**  
Civil Engineering  
*University of California*  
USA

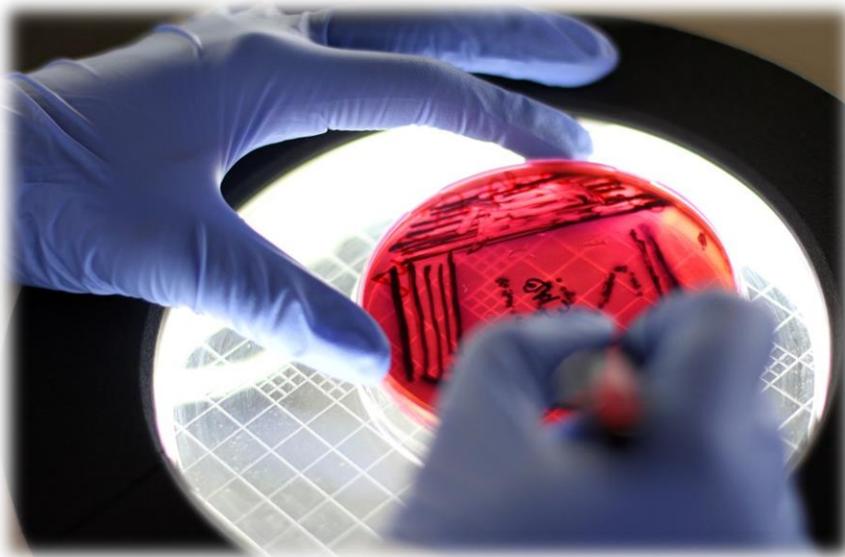
**Eng. Juan Sebastián Carvajal**  
Civil Engineering  
*University of Nottingham*  
UNITED KINGDOM



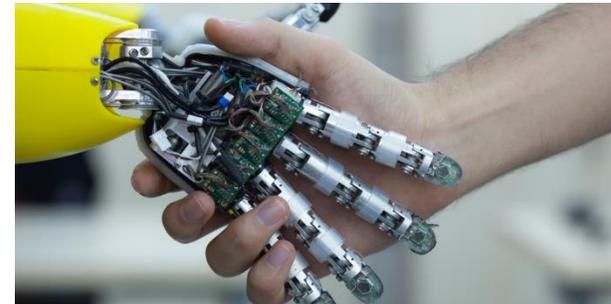
**Eng. Oscar Oviedo Trespalacios**  
Industrial Engineering  
*Queensland University  
of Technology*  
AUSTRALIA

**Eng. Arturo González**  
Mechanical Engineering  
*Ghent University*  
BELGIUM

# RESEARCH



- **Energy** { Renewable Energy  
Energy Efficiency
- Transportation
- Hydraulics ( River and Coasts)
- Structures and Geotechnics
- Computer Networks
- Robotics
- Telecommunications
- Bioengineering
- Electric Power Systems
- Environment
- Materials
- Productivity And Competitiveness



## Scientific and technological development areas



**Health**

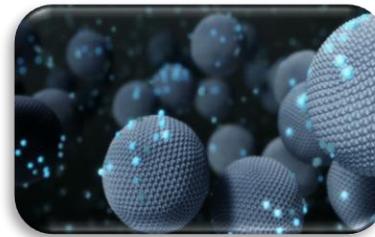


**Food**



**Renewable energy**

## Multipurpose Technologies



**Nanotechnology  
and materials**



**Biotechnology**



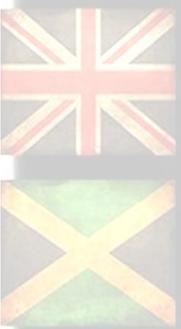
**ICT**

# INTERNATIONALIZATION





Grenoble INP



USF  
UNIVERSITY OF  
SOUTH FLORIDA



enim  
Ecole nationale d'ingénieurs de Metz



# DUAL DEGREE



HOCHSCHULE BREMEN  
UNIVERSITY OF APPLIED SCIENCES

ARTS  
ET MÉTIERS  
ParisTech



Center for Teaching  
Excellence



Resource Center for  
Student Success

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Dean

College of Engineering

Universidad del Norte

Barranquilla-Colombia

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