[ Welcome ]

Bienvenue

Bienvenidos
Currently exist more than **330** companies engaged in the sector, which has grown **400%** since **2005**.*

Job creation **grew more than 4 times** between **2006** and **2014**.

In **2010**, the national and Foreign Direct Investment (FDI) in the aeronautical sector exceeded the **billion of dollars**, and in the last three years **3 billion dollars**.

For **2020 Mexico** will be in the **top ten world exporters** (exports will rise to **12.3 billion dollars per year** and expect **110,000** direct jobs in the aeronautical sector).

*Source: Ministry of Economy; in 2005 there were only 60 companies engaged in this sector.*
Querétaro’s Aerospace Industry

- **80** Entities linked to the sector*
- **+61** Members in the Queretaro’s Aerospace Cluster A.C.
- **12,500** Direct jobs, + **8,500** UNAQ’s specialized technicians
- **4th** FDI region worldwide during the last 6 years
- **4.5** Of the state’s PIB

Querétaro

One of the most competitive states of security levels, social peace and life quality; reason why it has become the most dynamic aeronautical ecosystem in the country

*Note: Entities refers to business, organizations, institutions or suppliers.
**Evolution and Development**

**Aeronautical Cluster VS Training**

1st Stage

- Simple assemblies
  - Aeroparts manufacturing
  - Industrial capacity consolidation

Manufacturing Basic Technicians (qualified workers)

- Wichita

1st + 2nd Stage

- Fuselage manufacturing and more complex parts

Upper Level Technicians

- Seattle

1st - 3rd Stage

- Complete aircraft assembly
  - Design and innovation

Engineers, Master degree and PHD

- Montreal

- Toulouse
2006
Bombardier
Mesier Services SAFRAN

2007
Aernnova

2008
Messier Bugatti Dowty
SAMES SAFRAN
SNECMA SAFRAN

2009
Bombardier LearJet 85

2010
PCC Aerostructures

Strategic Alliances
Strategic Alliances

2011
- CFM
- Airbus Helicopters
- FAM (Mexican Air Force)

2012
- TechOps

2013
- Cormer
- SAMES REP SAFRAN

2014
- Thematic network of the Aeronautical Sector

2015
- 6ª Plant SAFRAN
- Duqueine Red PLM

2016 y 2017
Educational Model

Skills
VALUES
Knowledge

Industry

Basic Technician
2 to 8 months.

Upper Level Technician
2 years

Engineering
4 years

Master Degree
2 to 3 years
1,473 Students

Upper Level Technician 474
Engineering 955
Master Degree 44

82 % Men
18 % Women

Students from the 32 states of the country, mainly from CDMX, State of Mexico and Queretaro.

*January 2019
# Educational Programs

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>PROGRAM</th>
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<th>PROGRAM</th>
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<tbody>
<tr>
<td>Upper Level Technician (DGAC¹)</td>
<td>1. Aircraft Maintenance¹:</td>
<td>Postgraduate Master’s degree</td>
<td>1. Aerospace Engineering</td>
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<tr>
<td></td>
<td>• Aircraft &amp; Power Plant Area</td>
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<td>2. Science of Aerospace Engineering</td>
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<tr>
<td></td>
<td>• Avionics</td>
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<td>2. Aircraft Manufacturing:</td>
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<td>3. *In Development</td>
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<tr>
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<td>• Precision Machining Area.</td>
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<tr>
<td>Engineering</td>
<td>1. Aeronautical Manufacturing</td>
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<td>2. Aeronautical Mechanical Design</td>
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<td>3. Aeronautical Electronic Systems</td>
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*In Development
Engineering, Design and Development:

- Design and flight trainers development.
- Aircraft structures
- Flight training /Cougar EC-7.
- Unmanned Aerial Vehicle project (UAV).
- Special tooling
- Aircraft design in Composites Materials
- Algorithms and Flight Control
- Light – Sport Aircraft
- Automobile Chassis with Aeronautical Technology
- Design, Communication and Satellite Launch
PARTICIPATING COMPANIES

Oaxaca Aerospace
Adman Leku
Horizontec
MXSpace
TechOps
Eurotranciatura
Quetzal Aeroespacial
Face-to-face modality is one of a kind. The study programs are developed closely with the businesses that require it, having a duration of three to eight months.
Continuing Education

- Engineering, Design and Development
- Manufacturing
- MRO
- Structural Repairs
- Avionics
- Fundamentals of Aviation
- Professional Development

Plus 180 different training courses
Some of our clients
National Collaboration Agreements
Academic Institutions and Research Centers
International Collaboration Agreements
Academic Institutions and Research Centers
Facilities and Equipment

20 hectares within the Intercontinental Airport of Queretaro.

- 45 classrooms with more than 1,300 students capacity
- 3 libraries
- 13 Aircraft – laboratories.

Main Workshops and Laboratories

- Aerodynamics
- Aeromodelling
- Avionics
- Electronics
- Liquid Penetrant Testing
- Thermal Machines
- Aeronautical Materials.

- Metallography
- Aircraft Engines
- Aircraft Systems
- Chemical Treatment
- Metrology
- Electricity and Batteries
- Heat Treatment and Welding.
Result of an strategic alliance between the French Government, and the Mexican Government to provide international quality to the aeronautical education.

With world-class facilities, is the first of its kind in Latin America, looking forward the recognition of the EASA norms.
Over time, UNAQ has been key for the investment of more than 1,900 MUSD, in Querétaro.

Understand the needs of the industry, establishing a flexible and relevant care businesses, so they can develop here.

We are training engineers and researchers in a medium and long term.

Training center of one of the 3 biggest MRO of Latin America.

... This is our biggest challenge and vision, to be an international reference.
Thank you

Merci Beaucoup

Gracias