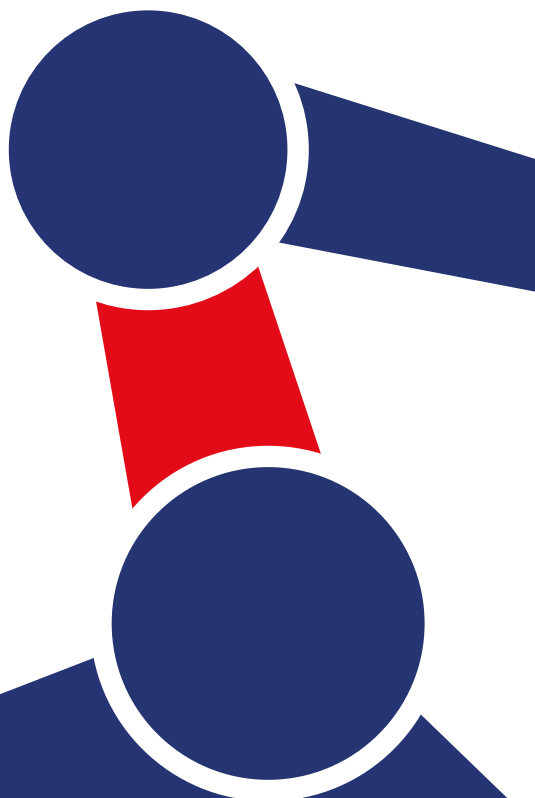


# **FRENCH AEROSPACE EXCELLENCE**



# 1

## A KEY SECTOR IN FRANCE

In 2019, France's aerospace sector was worth €74.3 billion. Orders reached €61.9 billion, 66% of which was in exports, while export revenues amounted to €49 billion in 2019. With 3.7 billion in 2019, the aerospace industry was the second largest in France in terms of R&D.

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# 2

## RESOUNDING COMMERCIAL SUCCESS

France's aerospace industry is the country's leading sector abroad, with exports totaling €64 billion, up more than 11.9% in 2019, and a trade surplus which increased by €3.8 billion (French Customs Authorities). France is the world's second largest exporter of aerospace products, with a 16% share of the export market in 2019. (UN Comtrade)

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# 3

## A THRIVING ECOSYSTEM

The French Aerospace Industries Association (GIFAS) has 400 members, including innovation clusters in the aerospace sector. The innovation clusters focus on economic development projects for innovation: Aerospace Valley (Occitanie and Nouvelle Aquitaine), SAFE Cluster (Provence-Alpes-Côte d'Azur) and AStech (Ile de France/Paris region). French companies can also receive support from around on a dozen specialized clusters across the country.

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# 4

## GLOBAL LEADERS CHOOSE FRANCE

Fourteen foreign investment projects were identified in France in 2020 in the aerospace, naval and rail equipment sector, equating to a total of more than nearly 1,400 jobs created or saved. These projects mainly resulted in investments in production and research activities. The American company Collins Aerospace, a global leader in systems and technological solutions for the aerospace and defense sector, is now well established in Occitanie. In recent years, several dozen jobs have been created by the group in the region.

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# 5

## DISRUPTIVE INNOVATIONS

Airbus has revolutionized the production chain thanks to predictive maintenance. Anticipation of breakdowns and optimization of repairs reduces or even eliminates the need to ground aircraft. At the end of 2019, as a world premiere, Air France tested a flight equipped with LiFi (Light Fidelity), developed by the French company Latécoère. LiFi does not interfere with sensitive equipment, it ensures better connectivity than WiFi and requires fewer cables.

## 6 ELITE TRAINING PROGRAMS

The ISAE Group (Institut Supérieur de l'Aéronautique et de l'Espace) brings together five schools in the field of aerospace engineering, some thirty training programs and more than 1,600 graduates per year. These schools are present throughout the country, with ISAE-SUPAERO in Toulouse, ISAE-ENSMA in Poitiers, SUPMECA in Ile de France/Paris region, ESTACA in Ile de France/Paris region and Pays de la Loire, and the Ecole de l'Air in Provence-Alpes-Côte d'Azur. The French Aerospace Industries Association (GIFAS) also has a €160,000 sponsorship agreement with the National School of Civil Aviation (ENAC).

## 7 CNES AND THE WORLD'S SECOND LARGEST BUDGET

The National Center for Space Studies (CNES) is the French national space agency, which had a budget of €2.8 billion in 2020, the second largest in the world for civil space activities. It manages the French space centers (Toulouse, Kourou, Paris) and is one of the key pillars of the European Space Agency (ESA). One of its best achievements is the ARIANE program, which has led to the launch of 616 satellites for more than 100 institutional and commercial clients around the world.

## 8 MANY HIGHLY SKILLED JOBS

There were 194,000 employees in early 2021, with more than 4,000 new jobs created in 2019. Moreover, 6,700 general employees, technicians, supervisors (25%), engineers and managers (57%) were hired in 2020. What's more, 75% of recruitments were on permanent contracts in 2020. (GIFAS, 2021)

## 9 LIFT OFF FOR FRENCH NANOSATELLITE

ANGELS is the first nanosatellite designed and developed by French industry with the support of The National Centre for Space Studies (CNES). Launched in December 2019 from the Guiana Space Center in French Guiana, the satellite is equipped with a miniaturized version of the Argos geolocation system. The next step, led by the startup Kineis, is to put 25 nanosatellites into orbit and become the first European operator of a constellation dedicated to the connected object markets.

## 10 THE PARIS AIR SHOW

The International Paris Air Show at Le Bourget airport is the world's leading aerospace trade show, with more than 2,400 exhibitors from 49 countries in 2019. A total of US\$140 million in orders were announced at the latest show, which attracted nearly 140,000 professionals and more than 177,000 members of the public. The next show will take place from June 21-27, 2023.



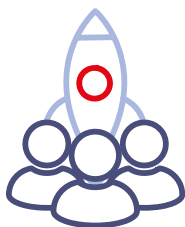
**#1**  
**HOST COUNTRY IN**  
**EUROPE FOR INDUSTRIAL**  
**INVESTMENTS**

(EY)



**FRANCE:**  
**#2**  
**IN THE WORLD FOR**  
**AEROSPACE EXPORTS**

(UN, COMTRADE, 2019)



**NEARLY 195,000**  
**EMPLOYEES IN THE**  
**AEROSPACE SECTOR**

(THE FRENCH AEROSPACE  
INDUSTRIES ASSOCIATION)



**ACCESS TO A MARKET**  
**OF 67 MILLION**  
**CONSUMERS AND**  
**PLATFORM FOR THE**  
**MIDDLE EAST/AFRICA**  
**ZONE**

(INSEE)

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