

/ INVEST IN  
GRENOBLE-ISÈRE, FRANCE /  
**Opening the doors to  
outer space**



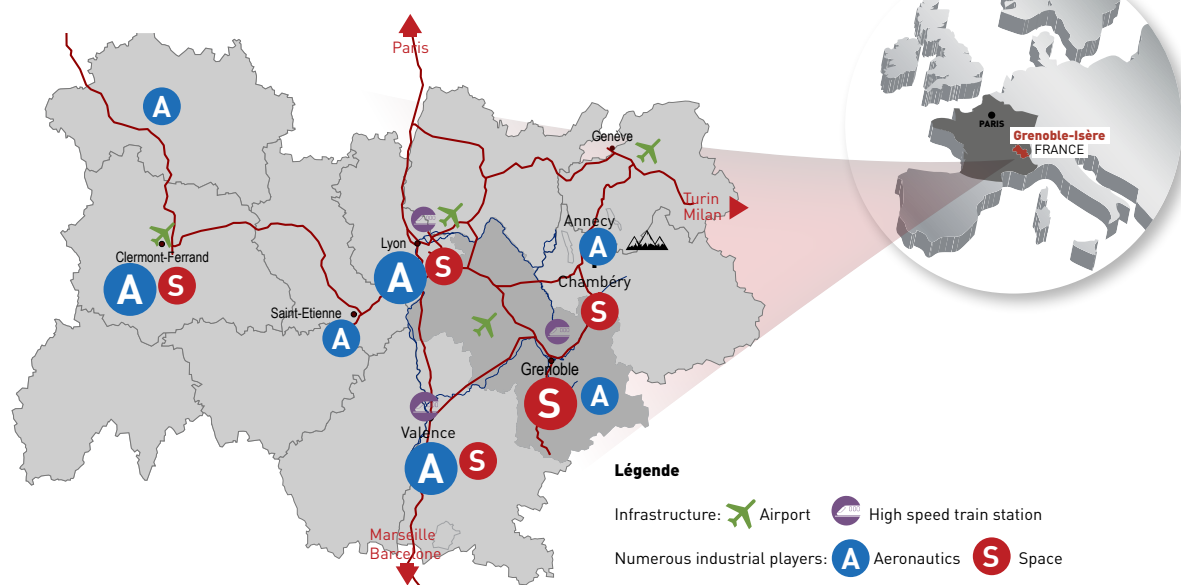
Invest in  
Grenoble-Isère,  
France

[www.grenoble-isere.com](http://www.grenoble-isere.com)

# Grenoble-Isère, France:

## Expertise in miniaturization for space

**A region home to major industrial players in aeronautics and defense**



### AERONAUTICS AND DEFENSE IN AUVERGNE-RHÔNE-ALPES

#### key figures

- 350 companies
- 30,000 jobs
- 4<sup>th</sup> European region for R&D

### GRENOBLE-ISÈRE SPACE INDUSTRY

#### key figures

- 550 academic research jobs (720 region-wide)
- 5,100 industry jobs
- 120 students per year specialized in space industry

### GRENOBLE-ISÈRE: a region of excellence

- **INDUSTRIAL** / above-average concentration of French industrial jobs and world leaders: Air Liquide, STMicroelectronics, Schneider Electric, Poma, Petzl, Vicat, Capgemini, Teisseire, Soitec, ARaymond
- **DIVERSIFIED** / meeting place for micro and nanoelectronics, software, energy, healthcare technologies, chemicals, and cleantech
- **INTERNATIONAL** / 4 out of 10 jobs in industry under foreign flags, almost 500 non-French companies
- **INNOVATIVE** / highest density of research jobs in France, 5th most inventive city in the world
- **ACADEMIC** / 1 out of every 5 Grenoble residents is a student; universities and higher education institutes among top international rankings
- **MULTIMODAL** / France's leading land-based logistics hub; top-ranked river ports
- **HOSPITABLE** / sustainable, sporty and cultural territory and metropolis in the heart of the French Alps

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## Expertise in miniaturization and instrumentation: an ecosystem that encourages disruptive innovation

Miniaturization is a key challenge that will help facilitate space access, develop future instruments and enable new space applications. Grenoble-Isère counts more than 50 years of technological expertise that was developed thanks to an array of leading industrial and research-oriented labs.

### Grenoble-Isère players are present throughout the value chain

#### Materials

Airstar Aerospace  
Hexcel  
Porcher Industries

CEA-Inac  
CEA-Liten  
Institut Néel

#### Embedded components

Dolphin Integration  
Kalray  
Minitubes  
Radiall  
Sofradir  
STMicroelectronics  
Teledyne e2v  
Thales Electron Devices  
Tronics  
Ulis  
Xenocs

CEA-Leti  
CEA-Liten  
IMEP  
TIMA

#### Embedded instruments

Air Liquide  
Alpao  
Cedrat Technologies  
GMP Atim Technologie  
Petercem  
Sofradir  
Teledyne e2v  
Ulis

CEA -Inac  
CSUG  
IGE  
Institut Néel  
IPAG  
Isterre  
Liphy  
LPSC  
OSUG

#### Infrastructure, R&D and services

40-30  
Creaform  
Easii IC  
ENGIE Axima Concept  
Iroc Technologies  
Météo France  
Nexio  
Serma Technologies  
Sogilis

#### Space data: management and use

CEN  
CSUG  
Gipsa Lab  
IGE  
IPAG  
IRSTEA  
Isterre  
OSUG

**Companies / Academic research**

(partial list)

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## Talent from all fields with specialized knowledge geared towards space applications

Every year the **CSUG (Centre Spatial Universitaire de Grenoble)** offers a specialized program in space studies. Participants include students, engineers and technicians from every field of study at Université Grenoble Alpes and Grenoble INP.

**Each year, 120 students** work in multidisciplinary teams and are coached by professors, researchers, company experts and sponsors. They collaborate to create a CubeSat from design to pre-launch testing. Students learn about quality (procedures and standards), certification (testing), traceability and decision-making in relation to other fields. These skills meet the current and future demands of the space industry.

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## Leading laboratories participate in ambitious European space missions

From miniaturized space instruments to data management and use, Grenoble-Isère fosters a vibrant space ecosystem thanks to R&D supported by **Université Grenoble-Alpes, Grenoble-INP, the CNRS and the CEA.**

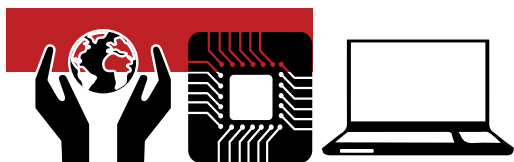
The region's space activities build on industrial players and laboratories that have participated in major European space missions such as **Rosetta (CONSERT), Planck, Swarm and Ariane.**

The development of CubeSats is also creating new opportunities for the space market. The region's laboratories are staying on the forefront of this new space age thanks to projects such as **NanoMagSat, Atise / AmiCalSat, NanoCarb and NanoBob.**

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## An ecosystem designed to support your project

- Economic project engineering and relocation assistance: **AEPI-Invest in Grenoble-Isère, France**
- Support for transfer of technology: **SATT Linksium and Floralis**
- Startup acceleration and support: **French Tech in the Alps**
- Incubators and accelerators: Tarmac, Le Carré, Innoenergy, Start-up Maker, The Village by Crédit Agricole, Minatéc Entreprises, Open Innovation Center, etc
- R&D funding, support for commercialization and international development: **Minalogic and Imaginove clusters, Aerospace Cluster**, Business Angels, Réseau Entreprendre, Emertec seed funding, dedicated events such as the Forum 5i, etc.



# 4 reasons to choose Grenoble-Isère, France for your project

1

**Expertise in miniaturization and instrumentation:** an ecosystem that encourages disruptive innovation

2

**Leading laboratories** participate in ambitious European space missions

3

**Talent** from all fields with specialized knowledge geared towards space applications

4

**An ecosystem** designed to support your project

## Air Liquide\*: a major space player

Air Liquide has developed a strong position in the space industry as a partner to the scientific community and a key player in terms of cryotech tanks and equipment for industrial gases and related services. Thanks to the company's expertise in cryogenics, Air Liquide has participated in international space projects such as the Ariane program, observation satellites (Herschel, Planck, etc.) and the International Space Station (Melfi). The company is currently pursuing its space ambitions thanks to work on the Ariane 6 launcher, and various satellite and space exploration projects.



With 55 years of success in space, Air Liquide is ready to overcome new challenges that are all the more competitive and ambitious!

Grenoble-Isère's dynamic space ecosystem is crucial to enable innovative collaborations.

Satellite technology is already undergoing major evolutions. And space exploration is opening the way towards even greater innovation."

Xavier Vigor,  
General Manager  
Air Liquide Advanced Technologies

\* A CSUG sponsor via the Université Grenoble Alpes Foundation



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meetings



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proposals &  
visits



Assistance in  
opening and  
operating  
your French  
organization



Support  
for HR and  
recruiting



Connect with  
the local  
ecosystem



Research on  
funding

## Find us worldwide



### Your contacts abroad:

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## Our success stories



## To find out more



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