Grenoble isère-france

Information Technology and Software

A major center for IT in Europe

Grenoble-Isère is the birthplace of computer science in France. The ecosystem's innovative and dynamic spirit has continued to attract talent and competences since; witness the A.M. Turing Award winner, Grenoble's Joseph Sifakis (2007)!

Grenoble-Isère's strategic assets in ICT (Information & Communication Technologies) include the presence of top firms and IT services companies, innovative start-ups, major public and private research centers, backed by some of the best higher education and top scientific facilities in Europe, all of which contribute to maintaining its leading position.

Few places in the world can offer the technological, industrial and scientific foundation needed to rise to the challenge of miniaturization, including nanotechnology and the convergence of hard- software.
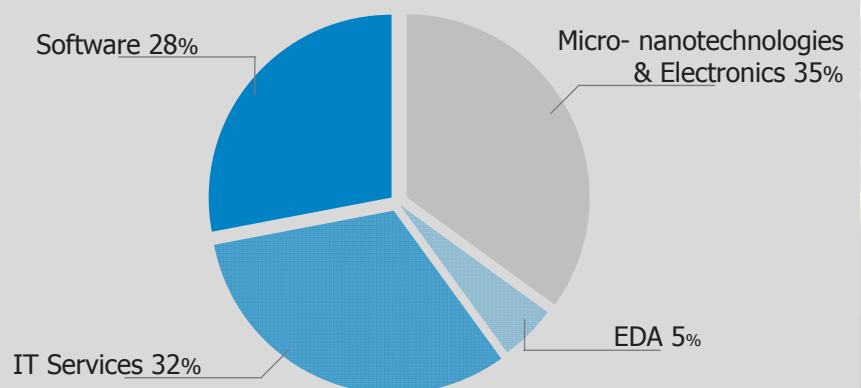
A highly concentrated ICT cluster, with global players

- 550 companies
- 40,000 jobs
- 5,000 jobs in public research
- 6,800 students
- 3,000 graduates/year

Top position in Software and IT Services

- 330 companies (60% of ICT companies)
- 12,700 jobs

ICT companies ranked by sector

- Software 28%
- Micro- nanotechnologies & Electronics 35%
- IT Services 32%
- EDA 5%

#1 in France for Conception and Research Jobs

Grenoble-Isère gathers:
- Major French research institutes
- Strong university research with a total of 129 laboratories
- 5 international large-scale scientific facilities

More than 2,000 people work in IT specialized public labs

INRIA National Institute for Research in Computer Science and Automation: 650 people

LIG Grenoble Informatics Laboratory: 500 people

GIPSA Grenoble-Image-Speech-Signal-Automatics Lab: 300 people

LJK Applied mathematics and computer science lab: 280 people

TIMC-IMAG Techniques for Biomedical Engineering and Complexity Management – informatics, mathematics and applications - Grenoble lab: 270 people

TIMA Techniques of Informatics and Microelectronics for Integrated systems Architecture lab: 100 people

VERIMAG Research Centre on Embedded Systems: 80 people

CRI Integrative Research Centre in Intelligent Systems Design: 50 people

CEA-LETI Research Institute for Electronics and Information Technologies

Private research attracted by the rich environment and talent pool

Private centers of international standing

Specific expertise in
- System-on-chip(SoC)
- Verification tools
- Multicore architectures
- Open operating systems
- Ambient intelligence
- Multiple-scale systems
- Communications protocols
- Middleware
- Electronic design automation
- Distributed systems
- Real-time computing

Talented minds and skilled workforce

Grenoble-Isère has a strong worldwide academic reputation, due to the quality of its higher education and research facilities, scientific excellence and international openness.

Strong focus on ICT

- 3,000 graduate students each year
- 70 training courses—39 at Joseph Fourier University
- 4 engineering schools
- 4 doctoral schools, 750 PhD students
- Numerous international Master's degrees

Ensimag: One of the best French «Grandes Écoles»

Ensimag, one of Grenoble Institute of Technology's (Grenoble-INP) engineering schools specialized in Informatics, Applied Mathematics and Telecommunications, is a pioneer in the field of information processing. Grenoble-INP ranks 2nd in France for engineering schools and 3rd for research.

Worldwide leaders and disruptive start-ups

A powerful industrial background in Information & Communication Technologies

Companies in the ICT sector form a rich and varied industrial fabric covering the whole added value chain.

The region is home to companies specialized in the development of solutions for the modeling and simulation of complex phenomena, machine inspection, computer assisted design, image processing, geographical information systems, software tools, artificial intelligence, testing and measurement.

Grenoble-Isère is one of the rare places in the world which has developed significant expertise in Electronic Design Automotion.

In Grenoble-Isère, partnerships between public and private players create dynamic start-ups.

Robust savoir-faire in Information Technology and Software

**4 success stories
Made In Grenoble-Isère**

- **Worldwide leaders:** Bull, HP, Orange L@bs, Oracle, Xerox Research Center Europe, …

- **IT Services companies:** Atos, Business & Decision Eolas, Capgemini, CGI (Logica), Sogeti, Open (Teamlog), Orange Business Services, …

- **EDA, design and test software:** CWS, Design & Reuse, DeFacto Technologies, Dolphin Integration, Maxim France, Mentor Graphics, Synopsys, Wind River/Intel, …

- **Application-specific software and trade solutions:** Autodesk, Bonitasoft, Cabrilog, Cedrat, Corys TESS, Digimind, Hardis Conseil, Metrologic, Moody's Analytics, Persistent Systems, Probayes, Reynolds & Reynolds, Technidata, The Mathworks (Polyspace Technologies), Winsoft, …

- **Web 2.0:** Bestofmedia, eCairn, Kelkoo, MadeInDesign, Photoweb, Spartoo, Starzik, …

- **Cloud computing:** Bull, Capgemini, QIIS, Ushare Soft, …

- **Agile programming**: CARA (Club Agile Rhône-Alpes), Sogilis, …

Dynamic networking and partnership initiatives

Minalogic: a world-class competitiveness cluster

Minalogic is a cluster specialized in micro- and nanotechnologies and embedded software. Minalogic brings together more than 200 members. Already €1.7 billion have been invested in 231 research and development projects via Minalogic. www.minalogic.com

GRILOG: Grenoble-Isere's professional association

GRILOG is the professional association of software and IT services of Grenoble-Isere. It counts 120 members. www.grilog.fr

LSI Carnot: a research organization of 28 research teams

The Carnot Institute for Software and Intelligent Systems brings together 28 research teams from Joseph Fourier University, Grenoble Institute of Technology (Grenoble-INP), CNRS and INRIA. www.carnot-lsi.com

Grenoble-Isère:
the smart move

➲ **A consumer market** with 9 million inhabitants within a 200 kilometer (125 mile) radius

➲ **Young, well-qualified population**
- 33% of population under 25 years
- No. 2 in France for engineers, as a percentage of total jobs in the urban area
- No. 1 in France for proportion of jobs in conception and research

➲ **Higher education and research**
- ~ 30,000 jobs in research
- > 60,000 students
- International research facilities: ESRF, ILL, EMBL, IRAM, GHMFL
- 9 national research organizations: CEA, CEN, CNRS, CSTB, INRA, INRIA, INSERM, IRD, IRSTEA

➲ **Diversified economic fabric**
- Electronics and Advanced Technologies, Metallurgy, Mechanical Engineering, Logistics, Software, IT engineering, Medical equipment, Chemicals...

➲ **International dimension**
- 40% of Grenoble-Isère's manufacturing jobs in foreign-owned companies
- International schooling is free of charge at *Cité internationale de Grenoble*
- 45% students in PhD are non-nationals

➲ A location at the **heart of the Rhône-Alpes region**, with 1,229,800 inhabitants, on a human scale

➲ **An exceptional natural setting** in which to enjoy skiing, hiking, climbing, hang gliding, water sports, etc.

➲ **Diverse, cosmopolitan cultural life**