



Agence d'Etudes et de Promotion de l'Isère

AEPI 2011

# Grenoble isère-france

## Information technology and software

### A major center in Europe

➔ Grenoble-Isère enjoys a key position in Europe. The presence of top firms (HP, Bull, Oracle, Xerox, etc.) and IT services companies (Capgemini, Atos Origin, Open, Orange Business Services), innovative start-ups, major research centres (Inria, Orange Labs, Pilsa, university laboratories, etc.), backed by some of the best higher education facilities in Europe, all contribute to maintaining a strong position in this field. IT actors gather in networks like Grilog, Minalogic or Imaginove to foster innovation, ensure cooperation and promote the cluster.

**Top companies:** HP, Bull, Oracle, Xerox, Capgemini, Atos, Teamlog, Orange Business Services, etc.

12,000 jobs in companies  
2,000 jobs in public research  
2,200 university diplomas per year  
750 PhD's students

### Key figures in Information and Communication Technology

- 500 companies
- 39,000 jobs in ICT
- 5,000 jobs in public research
- 6,800 students

### Key assets

- Grenoble-Isère is considered the birth place of computer science in France. The dynamic of innovation is still present: Joseph Sifakis won the Turing Prize in 2007.
- Few places in the world can offer the technological, industrial and scientific basis needed to rise to the challenge of miniaturization, nanotechnology, and hard and software convergence.
- Numerous initiatives, start-ups and companies are developing in Green IT and web 2.0. For example, the ICT Energy R&D project, launched by seven industrial and academic partners, on the design of an energy management system for Data Centers.





# Research and Higher Education

G R E N O B L E - I S È R E - F R A N C E



## Key figures for research in Grenoble-Isère

- 22,800 jobs in research including 5,000 jobs in ICT



## Research

Grenoble is considered the birthplace of computer science in France. In 1951, Jean Kuntzmann started the calculation laboratory at the Grenoble Institute of Technology. The area has never lost its initial drive and major private research centres have arrived since to work alongside particularly active public research facilities, not to mention Joseph Sifakis—winner of the Turing prize in 2007.

This energy is reflected in the many partnerships and joint projects involving public and private players, the launch of numerous start-ups, and the continuous transfer to industry of technology developed in the various laboratories. Its expertise in system-on-chip (SoC), open operating systems, ambient intelligence, multiple-scale systems, communications protocols, middleware, distributed systems or real-time computing has also won international recognition.

Grenoble-Isère is home to several private research centres of international standing. Attracted by the area's high academic potential and the excellence of public research, most of the centres have specific global or European responsibilities. Here they can find highly qualified personnel and scope for partnerships with local research organizations.

Many companies, particularly in software, have also chosen to locate R&D teams on the Grenoble area to benefit from the rich talent pool.

**Public research:** INRIA, LIG, GIPSA, Jean Kuntzmann Laboratory, TIMA, VERIMAG, TIMC, CRI-PILSI

**Private research:** Bull, HP, Oracle, Orange Labs, Xerox Research Centre Europe, etc.

## Higher Education



## Key figures in information and technology software

- 750 PhD's students
- 2,200 degrees per year

Grenoble-Isère has a strong worldwide academic reputation. It owes this reputation to the breadth and quality of its higher education and research facilities, to the three-pronged training, research and industry dynamic it has nurtured, and to its international outlook. One of six students are foreign and one of four study in postgraduate schools.

- Numerous international specialized Master degrees and PhD. can be found, such as CSE (Communication System Engineering) or MOSIG (Master of Science in Informatics at Grenoble) when looking at specialized programs in Information and technology software.
- After earning the top slot in 2010, Grenoble Institute of Technology came first again in 2011 in Industrie et Technologies' ranking of 124 engineering schools
- For the second consecutive year, Grenoble Ecole de Management and Grenoble Graduate School of Business came in 47th in the Financial Times' global business school ranking.



## Companies

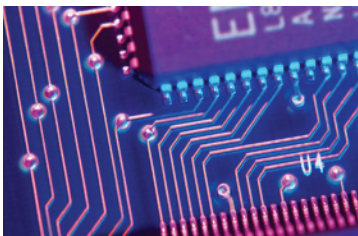
Grenoble-Isère employs 12,000 people in information technology and software, in international corporations, small and medium size companies and a host of start-ups. The companies form a rich and varied industrial fabric covering the whole added value chain. All of them—major groups and computer manufacturers, system houses and specialist services providers, software publishers—base their development on the range and diversity of the available talent pool, the quality of higher education and the excellence of research.



Grenoble-Isère has a considerable know-how in numerous scientific fields as well as renowned expertise in software engineering. The complementary nature and diversity of Grenoble-Isère's scientific community has led to the emergence of a large number of scientific and technical software publishers. Indeed, the region is home to several dozen companies specializing in the development of solutions for the modelling and simulation of complex phenomena, machine inspection, computer assisted design, image processing, geographical information systems, software tools, artificial intelligence, and testing and measurement. Nevertheless, innovation is also driving new initiatives in Green IT and web 2.0 developments.

- Major information technology groups: HP, Oracle, Bull, Xerox, Orange, ...
- System houses: Capgemini, Atos, Logica CMG, Open (Teamlog), ...
- EDA, design and test software: Mentor Graphics, Synopsys, Dolphin Integration, CWS, Design and Reuse, Maxim, Atrenta, ...
- Application-specific software : Rolls Royce Civil Nuclear, Corys Tess, Autodesk/Robobat, The Mathworks, Cabrilog, Technidata, Metrologic, Cedrat, Probayes, Reynolds & Reynolds company, Hardis, Digimind, Winsoft, ...
- Web 2.0: Kelkoo, Bestofmedia, Spartoo, Starzik, Photoweb, MadeInDesign, ...

### MINALOGIC



Minalogic is one of France's six worldclass competitive clusters. It fosters research-led innovation in intelligent miniaturized products and solutions for industry.

The EmSoC (embedded systems on chips) workgroup has selected five technologically oriented themes:

- Modeling, simulation, and validation tools and methods
- Software implementation tools and methods for on-chip multiprocessor platforms
- Software infrastructure for embedded systems
- The technical building blocks for specific embedded applications
- Multiprocessor platforms (MP-SoC)

### PILSI



International campus dedicated to software and intelligent systems, with 1,900 researchers, 4,000 students and several industrial partners. Opening 2012.

Pilsil objectives:

- creation of an international research center for ICT
- development of a collaborative research framework for nanotechnology and information technology
- development of an efficient model with public and private partners
- new investment in research facilities for convergent and multidisciplinary approach in intelligent software and systems.



## Grenoble-Isère: the smart move

- ➔ **Consumer market** with 9 million inhabitants within a 200 kilometre radius
- ➔ **Young, well qualified population**
  - 33% of population under 25 years
  - No. 1 in France for engineers, as a percentage of total employment
  - No. 1 in France for research
- ➔ **Higher education and research**
  - 22,800 jobs in research
  - 65,250 students
  - 4 international research institutes: ESRF, ILL, EMBL, Iram
  - 9 national research organizations: CEA, Cemagref, CEN, CNRS, CRSSA, Inra, Inria, Inserm, IRD
- ➔ **Diversified economic fabric**
  - 469,000 jobs of which 177,900 jobs in Industry & Business Services
- ➔ **International dimension**
  - 453 foreign-owned companies, representing 41,000 jobs including 122 US companies, accounting for 13,400 jobs
  - 9,000 foreign students
  - International reception facilities
- ➔ **A location of 1,212,000 inhabitants**, on a human scale, at the heart of the Rhône-Alpes region
- ➔ **Exceptional natural setting** to enjoy skiing, hiking, climbing, hang gliding, water sports, etc.
- ➔ **Diverse, cosmopolitan cultural life**

## The Isère economic development agency, AEPI

AEPI provides complimentary information, introductions and services to assist companies in exploring business opportunities in the Grenoble-Isère area of France.

### AEPI provides complementary services adapted to your needs:

- Information about economic environment;
- Selection of land, offices, industrial buildings for sale and for lease;
- Organization of site visits and meetings with local decision-makers;
- Technical support with financial aspects (business plan, incentives, grants, etc.);
- Introductions to the local scientific community;
- Reception of new personnel from abroad.



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