



## Laboratory for Electronics and Information Technology

*The LETI is a research CEA laboratory based in Grenoble, focused on technologies for miniaturization and their applications, operating most of its research projects in cooperation with companies; the LETI is one of Europe leading centres for applied electronics research.*

### → Strengths

CEA LETI is a laboratory for technological research, proposing:

- **Multidisciplinary skills from a broad technical field in order to:**
  - *combine new concepts and industrial needs based on know-how relating to*
    - miniaturised components
    - systems integration
    - prototyping and technology transfer
  - *foster an ongoing process linking academic research and industry*
- **An industrial partnership based cooperation and development model.**
- **State-of-the-art facilities**

### → Business

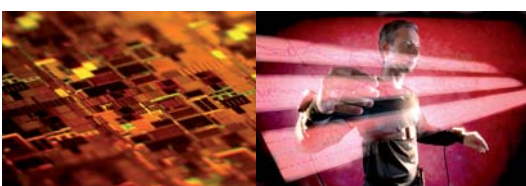
Micro & nanoelectronics

Silicon micro & nanotechnologies

Photonics & multimedia

Telecom & ambient intelligence

Biology & health



- CEA LETI's mission is to generate innovation and to transfer it to industry.
- CEA LETI helps companies become more competitive through technological innovation and transfers its technical know-how to industry. More than 85% of its activity is devoted to applied research, with partners from industry.
- CEA LETI is a privileged partner of the industrial world, with 200 partners and 350 contracts signed every year. It is a national champion in creating high-tech start-ups with some 30 new companies to its credit including Soitec, the world's leader in Silicon-On-Insulator. It files some 180 patents per year and manages a portfolio of 1000 patent-protected inventions...
- CEA LETI's activities focus on microcomponents and their integration into electronic systems.
- CEA LETI's solid technological foundation is complemented by links with the world of uses and services, in order to anticipate the development of new electronic products.



**More than 1500 people  
serving innovation and technology transfer**

With an annual budget of 200 million euros, CEA LETI employs 1000 people and more than 500 external collaborators (Ph.D. students, research partners, industry assignees). Its facilities cover micro technology processes in 200 and 300 mm, with around 8000 m<sup>2</sup> clean rooms and a major platform for characterization at nanoscale.

It has access to the other facilities of CEA (Atomic Energy Authority) and other research Institutes in Grenoble, including reactors, accelerators, analysis and characterisation equipments, etc.



→ **The strength  
of major networks**

CEA LETI is an active member of many networks. Its European partnership HTA, with CSEM in Neuchâtel and the Fraunhofer Institutes in Germany, enables it to offer the industrial world the widest possible range of European technologies.

This partnership, the only one of its kind in Europe, creates interdependency between these institutes, and gives a real opportunity to coordinate their investments and provide guarantees of mutual success.

→ **The CEA LETI Carnot  
institute thematics:**

- Nanoelectronics & nanotechnologies
- Heterogeneous integration on silicon
- System design and integration
- Optronics
- Biology and health microtechnologies

→ **Minatec**

CEA LETI faces a bright international future in store in the framework of the Minatec centre for innovation in micro- and nanotechnology, of which it is a key founding partner. Grouping together more than 4000 people (1000 students, 200 lecturer/researchers, 1800 researchers, 1000 direct industrial jobs as well as indirect jobs) and covering a 45 000 m<sup>2</sup> floor area, Minatec is the Europe's leading micro and nanotechnology research centre and one of the very first at international level.

→ **Key figures**

■ **Staff**

Permanent staff (full-time equivalent): 1000  
Ph.D. students: 140

■ **Budget**

Global budget: 200 000 k€  
Contractual incomes: 130 000 k€

→ **Contact**

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