



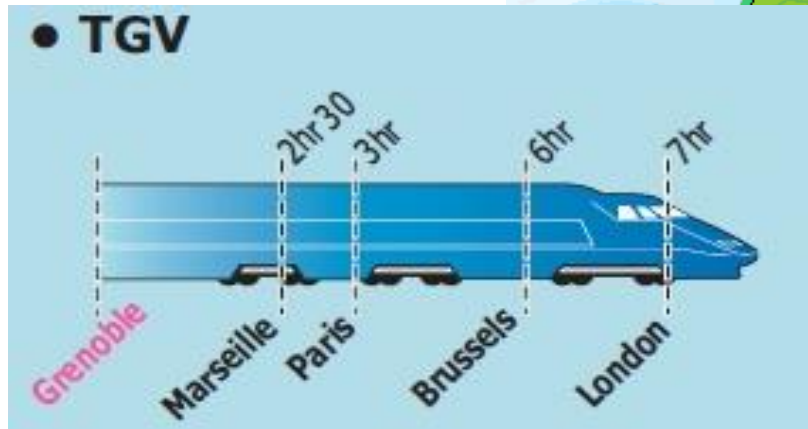
EMNano+ Master Program @ University Grenoble-Alpes

General Informations about Grenoble and UGA





Micro-Nano-Technologies



Grenoble



Université Grenoble Alpes



Grenoble

400 000 people

1 of 5 is a student

25 000 R&D jobs

France's highest concentration

200 research Labs

European
Research Facilities

Grenoble

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France's highest concentration

Museums, Theaters

Jazz festival (Vienne)

10 ski resorts < 40km



Major area for research, advanced technologies and higher education...

59 000 students
 10000 international students

7500 staff members

23 international
 Master's programs

1st University in France
 in 11 fields including
 Nanoscience-Nanotechnology

Top 150 universities in the world
Shanghai Ranking of World Universities

33rd most innovative university in Europe
Thomson Reuters

Top 50 worldwide in 6 subjects
 Remote Sensing, Earth Sciences, Metallurgical Engineering, Physics, Clinical Medicine, Quantum Engineering

- **100+** laboratories
- **75** research centers
- **1** teaching hospital
- 400 programs, 20 of which totally taught in English
- Over 70 International Master Degrees
- 128 international collaborative degree programs

UGA Interdisciplinary Strengths

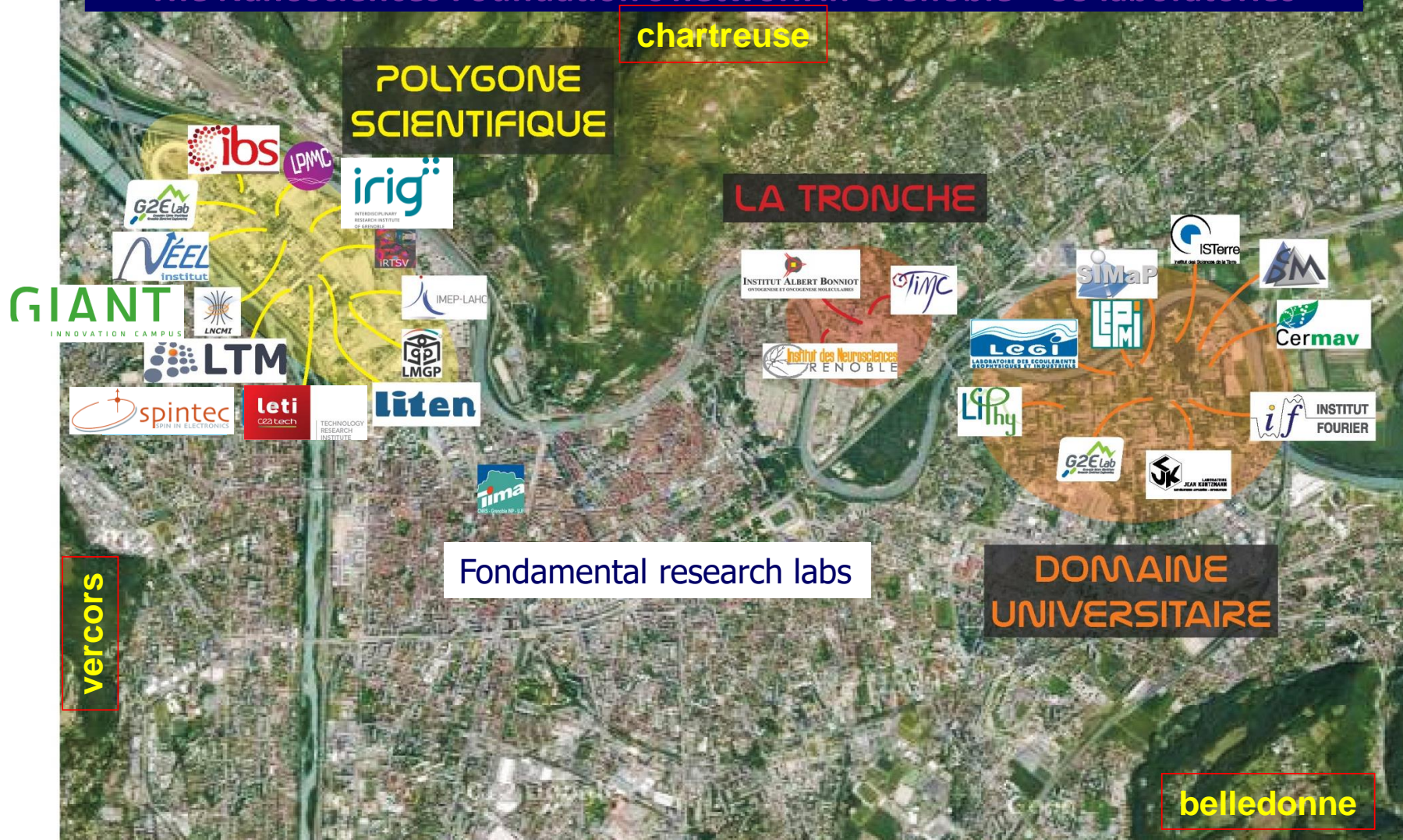
- Sustainable development & society
- Health, well-being and technology
- Digital Technologies
- Innovation

59,000 students, of which

- 35,500** undergraduates
- 20,600** graduates
- 2,900** PhD students
- 10,000** international students

<https://www.univ-grenoble-alpes.fr/english/>

The Nanosciences Foundation's network in Grenoble = 33 laboratories



See online pdf file dedicated **with online web links on labs**





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Academic Research laboratories in Nanoscience-Nanotechnology

- More than 33 academic laboratories affiliated with CNRS, UGA or CEA working in **Nanoscience** See map on the next slide and the third pdf file dedicated to the study program **with web links**.
 See also <https://master-nanosciences.univ-grenoble-alpes.fr/nano-grenoble/>

- 4 European facilities: ESRF, ILL, EMBL, EMFL:   EMBL  

- Micro-nanoelectronics centers and platforms: CEA Leti, CIME Nanotech, ST ...



TECHNOLOGY
 RESEARCH
 INSTITUTE



- 3 Laboratories of excellence (federative actions for research including PhD programs)

- **Labex Gral:** Grenoble alliance for integrated structural and cell biology (Molecular machines dynamic, self organization of Living Systems: <https://www.labex-gral.fr/ongoing-call/>)



- **Labex Lanef:** Photonics, spintronics, nanoelectronics, energy, cryogeny, nanosensors, nanomaterials... <http://www.grenoble-lanef.fr/>



- **Labex Arcane:** Biology/chemistry interface, bio-inspired chemistry, <https://www.labex-arcane.fr/en>



- 3 European pre-doctoral schools: [Esonn](#), Hercules, Erca

Quantalps consortium



QuantAlps

~230 faculty members
18 laboratories



<https://quantalps.univ-grenoble-alpes.fr/>

Quantum technologies in Grenoble

An outstanding ecosystem for **Education**

Quantum technologies in Grenoble

An outstanding ecosystem for **Education**

QuantEdu-France national program: Education and training to fulfill the strategic skill needs of research and industry in France: **57 M€ for 5 years Sept 2022 -> Sept 2027**

1. **Université Grenoble Alpes***
2. **Institut Polytechnique de Grenoble**
3. Université Paris Saclay
4. Institut Polytechnique de Paris
5. Ecole Polytechnique
6. Ecole Nationale Supérieure de techniques avancées
7. Sorbonne Université
8. Université de Paris
9. Université Paris Sciences et Lettres
10. Université Sorbonne Paris Nord
11. Université de Montpellier
12. Université fédérale de Toulouse Midi-Pyrénées
13. Université de Bordeaux
14. Université Côte d'Azur
15. Aix-Marseille Université
16. Ecole Centrale de Marseille
17. Université de Strasbourg
18. Université Bourgogne Franche-Comté
19. Ecole Normale supérieure de Lyon
20. Université de Lille
21. Telecom Paris



* **Coordinating University**

<https://quantalps.univ-grenoble-alpes.fr/quantedu/> [contact: franck.balestro@univ-grenoble-alpes.fr](mailto:franck.balestro@univ-grenoble-alpes.fr)



International PhD education

- ▶ **13 Doctoral Schools**
- ▶ **Over 260** joint doctoral thesis with a foreign university
- ▶ PhD students can also apply for the label "European Doctorate" or "Doctor Europaeus".

Key Figures

- 3 000 PhD Students, 47% of whom are International
- + 300 Joint PhDs (cotutelle)
- 13 Doctoral Schools, with more 90 scientific specialities
- + 100 Research Units
- Between 600 and 700 PhD Defenses per year
- + 100 HDR defended per year
- + 98% employment after 36 months



Campus life: sports

- ▶ UGA offers more than **45** formal sports classes, plus an additional **30+** ungraded activities for students.
- ▶ Access to Olympic swimming-pool, climbing walls, several sport fields and equipment.
- ▶ A wide variety of **reduced-cost activities** are also available for faculty and staff and their families.
- ▶ More than 500 student athletes welcomed each year

