



DOCTORAL PROGRAM

ELECTRICAL, ELECTRONIC, ENGINEERING & TELECOMMUNICATIONS - GEET

SCIENCES & TECHNOLOGY

DOCTORAL PROGRAM GEET:

 <http://educ.laas.fr/GEET>

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SCIENTIFIC DOMAINS

- New Power electron devices, integration, modeling and processing
- Materials for energy conversion and integrated systems, converters, command and diagnostic
- Optronics and imaging circuits, System On Chip
- Light sources and applications, photovoltaic, OLED systems
- Nanophotonics engineering quantum well Lasers, VECSELS
- Nano Silicon Devices spintronic-mesoscopic issues
- Nanobiotechnologies
- Micro-Nanofluidics and related embedded Systems
- NEMS RF and smart dusts for communications
- MEMS for structure control and indoor communications
- Microwave and optical devices, electrical noise, MMIC circuits, antennas and related electromagnetic issues
- Sensors and Microsystems for gas and live species detection
- Dielectric materials, processing and reliability
- Materials and plasma applications, modeling and processing
- Medical radiophysics and Imaging

KEY FIGURES

- 300 Phd's in progress (50 % are foreign students, 20% industry supported thesis)
- 320 researchers and academics
- 75 PhD awarded and several distinctions awarded each year
- 10 main laboratories and 2 joint industrial/academics laboratories

RESEARCH LABORATORIES

- **LAPLACE** - Lab. on Plasma and Conversion of Energy: <http://www.laplace.univ-tlse.fr>
- **LAAS** - Lab. for Analysis and Architecture of Systems: <http://www.laas.fr/>
- **OLIMPES** - Lab. Optronics - Laser Physical Imaging Space Environment: <http://recherche.isae.fr/olimpes>
- **UMRS 825**- Cerebral Imagery and Neurologic Handicap: <http://www.u825.inserm.fr/>
- **ONCOPOLE** : <http://www.oncopole-toulouse.com/>
- **SIMAD** - Simulation, Instrumentation and Materials for Dosimetric Applications (SIMAD): <http://simad-ups.fr/>
- **CEMES**- Center for Materials Elaboration and Structural Studies: <http://www.cemes.fr>
- **LNCMI** - High Magnetic Field National Laboratory: <http://lncmi.cnrs.fr/>
- **LGP** - Lab on Production Engineering: <http://www.enit.fr/fr/recherche/le-laboratoire-genie-de-production-1.html>
Joint Labs : "PRIME" (ALSTOM Industry), "Pix-Cell" (ESSILOR Industry)