

GREMAN

GREMAN laboratory is specialised on materials, microelectronics, acoustics and nanotechnology. GREMAN's research cover all the process from materials to components and systems. Our lab operates on five [technical platforms](#) in Tours and Blois.

Materials and technologies needs to optimize energetic efficiency are growing. To answer those needs, GREMAN research team is composed by scientists from several specialities : electronicians, technologists, physicists, condensed materials chemists...

Our lab activities are focused on five main themes :

- [Functional oxides for energy efficiency: combinatory synthesis and nanostructuration.](#)
- [Magnetic & optical properties of ferroic and electronic correlation materials.](#)
- [Innovative materials and components for power and RF microelectronics: wide bandgap & porous SCs and their applications.](#)
- [Piezoelectric & capacitive micro & nano systems for ultrasound transducers and energy conversion.](#)
- [Methods and instrumentation for ultrasonic characterization of complex media.](#)

Facts and Figures

A laboratory of over 100 persons :

- 42 permanent academic staff
- 16 administrative & technical staff
- 38 PhD students
- 10 post-doctoral researchers

Each year :

- About 90 publications
- 4 patents and 8 PhDs defended
- 10 to 15 research contracts (European, national, industrial, local)

Education

Our lab is particularly involved in education through five master's degree of Tours and Orleans universities :

- [Multifunctional materials and new technologies for energy](#)(Tours university) ;
- [Non-linear physics](#) (Tours university) ;
- [Electronics and mechanical engineering](#)(International master's degree Tous university & INSA Val de Loire);
- [Mechatronic, automation, robotic and signal](#)(Orleans university & INSA Centre Val de Loire);
- [Medical imaging](#) (Tours university).

GREMAN's teachers-researchers are also involved in courses at IUT of [Tours](#) and [Blois](#), [Sciences and techniques education and research unit](#) and [Polytechnique](#) (Graduate school of engineering) of Tours university and [INSA Centre-Val de Loire](#).