Innovation   **Cross-Fertilisation**   **Research**

Ceramics & ICT
Graduate School

Track 1
High frequency
electronics & photonics

Track 2
Material science
& engineering

Track 3
Smart IoT

Track 4
Information security

Track 5
Applied maths
& optimisation

Track 6
Computer graphics

Track 7
Software design
& development
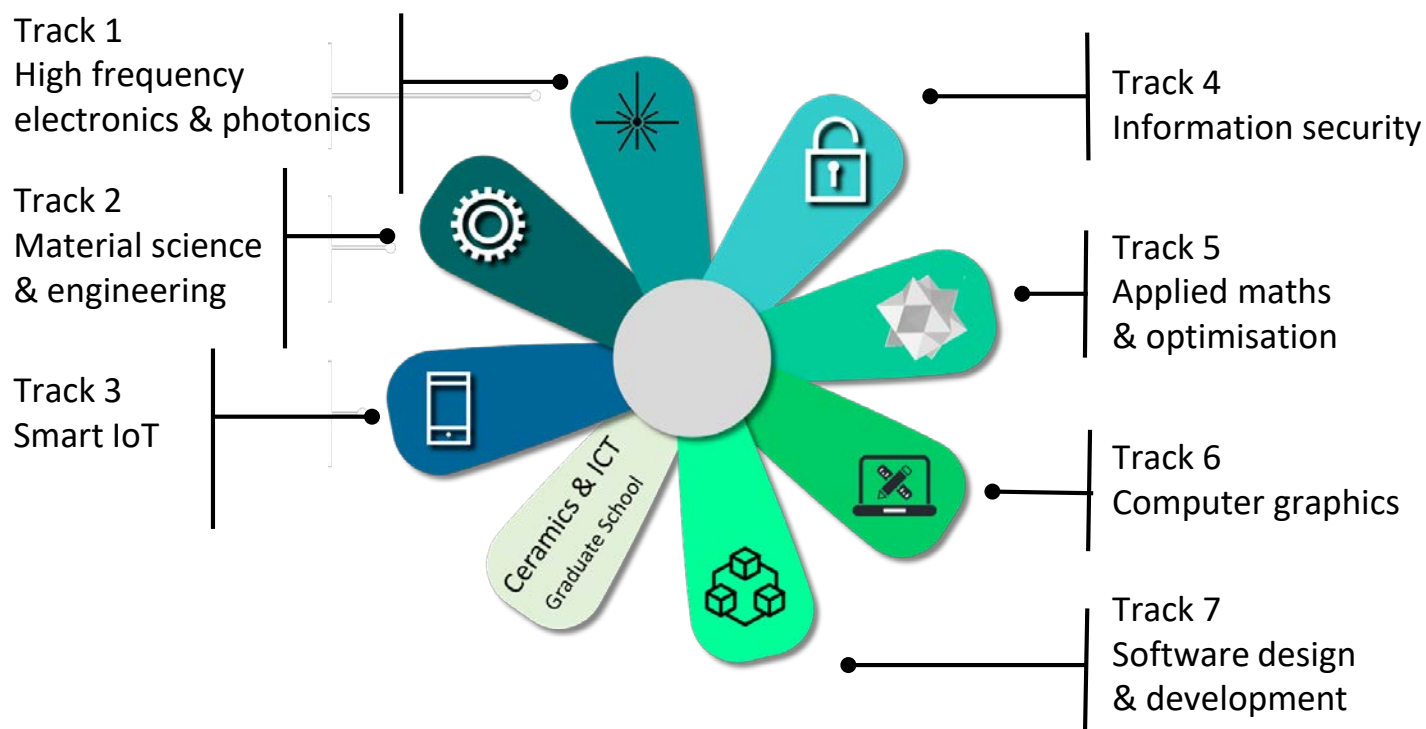
➢ Disciplinary courses giving strong skills and a high level of **specialization** in one of the 7 disciplinary domains

➢ **Interdisciplinary** teachings comprising theoretical and practical courses at the interface between the 7 tracks (cybersecurity, photonics for health, additive manufacturing for 5G, ….)

➢ Long research/industry working group projects: to get **transverse** skills and interdisciplinary vision through thinking and working approach: **innovation**, creativity processes, co-design…

Contact and registration
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INVESTIR L'AVENIR

irCer
institut de recherche
sur les céramiques

xlim

cnrs

Université de Limoges

Université de Poitiers

Computer graphics

Computer graphics - Presentation

The Computer graphics Master degree of the Graduate School has a dual purpose:

- to train professionals who possess knowledge in line with the professional sector concerned;
- to train students who can fit into the world of research. The aim of the second year is to offer advanced specialization in the areas of image synthesis and graphic design, combined with professional teaching.

The teachings are based first of all on the research activities developed at the XLIM Research Institute (UMR CNRS 7252) of the University of Limoges, and in particular its Synthese team of Realistic Images.

They also draw on the expertise of European, national and regional professionals and actors in these fields.

The Computer graphics Master aims to orient students towards new trades, intermediate between classic developers and users of tools related to graphic design.

Moreover, a continuation of studies in PhD thesis in Computer Science, in particular in image synthesis can be considered.

MAJOR COURSES – 63 ECTS*

Core courses - 57 ECTS Core teachings	In-depth Disciplinary courses - 6 ECTS 2 elective courses among
- Image synthesis, - Rendering, - 3D modeling / 3D printing - Natural phenomena	- Appearance Synthesis of complex phenomenons - Advanced modelisation and simulation for additive manufacturing

MINOR COURSES – 11 ECTS*

Interdisciplnary Courses Bridging courses	Interdisciplnary Courses 2 elective courses among	Interdisciplinary scientific project
- Differential calculus, ODE and PDE, - Computer graphics	- Modelization, Simulation, Optimization - Scientific computation and parallelisation - Database security - Watermarking	With a Graduate School's multidisciplinary team, interdisciplinary workshop of one day/year

INTENSIVE SUPPORT FOR PROFESSIONAL PROJECT – 46 ECTS*

Soft skills 12 ECTS	International mobility 5 ECTS	Research labworks 5 ECTS	Research Internship 24 ECTS
Innovation economy, Creativity processes, Foreign languages (English or French)	Full time internship in a foreign lab or compagny	Research Climbing Ropes programme	Master thesis in a R&D company or in a lab

*1 ECTS = ~10 hours of classes