

responsible-design@Grenoble

International Semester Project in Responsible Engineering Design @ Grenoble (France)

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School of Industrial Engineering



Responsible Design

- Future Engineering Designers will face the challenge of considering the Lifelong impact of products and processes in their day to day practices
- This semester allows students to experience responsible design through an INTERNATIONAL INNOVATIVE PROJECT in collaboration with industry alongside with responsible design and business lectures
- The aim of the semester Project in responsible-design@grenoble is to offer innovation that takes into account social and environmental issues. Our main focus is on
 - User centered Design
 - Sustainable design
 - Inclusive design
 - Ethics & responsibility



What is Responsible Design@Grenoble?

- Responsible-Design@grenoble is a full semester project in which International student teams have to design innovative concepts of responsible products to respond to industrial challenges
 - -Teams take projects all the way from defining design requirements to constructing numerical and functional prototypes ready for technical evaluation.
 - -Teams have to define business plans for the innovative products.
 - » The language of communication is English.
 - » Students receive an international certificate upon successful completion of the project
 - » Students can obtain full credit (30 ECTS) according to the European Credit Transfer System, ECTS.
 - » The program starts in the Spring Semester 2009 (Feb-June)



Teaching Staff

- The Staff is composed of Permanent Researchers and Teachers of Genie Industriel
- Affiliated Consultants are also involved in the coaching of the project
- Specific services from the other INP engineering schools can be made available upon request
- Staff in 2009
 - Rodolphe Allera
 - Consulting (rab solutions)
 - Eric Blanco
 - collaborative Engineering, user-centred design
 - Pierre Marie Boitel
 - Simulation, mechatronics
 - Daniel Brissaud
 - Design For manufacturing, Eco-Design
 - Alain Didonato
 - Engineering, Technical Support
 - Michel Monier
 - Marketing, Business
 - Frederic Vignat
 - · CAD, Prototyping
 - Khaled Hadj Hamou
 - Supply chain logistics.



Winning Projects

- Projects are suggested by industrial partners and refined with the teaching team.
- Ideal projects will meet the following requirements
 - Project of vital interest for the company
 - Not the First one on the strategic short list priority (4th of 5th one)
 - Not on the critical production path.



Expected OutComes

Comprehensive final reports contain

- Explorations of concepts and values
- Knowledge identified and acquired during the project
- Models and drawings from the study phase
- Requirements for future development



Key features for communication

- The links between companies and students are a key point to meet both industrial and academic expectations
- We recommend to follow the following schedule:
 - A first Workshop in week 2
 - regular project reviews (Milestones)
 - Weekly communication between the teams and the companies is encouraged (access to email, phone, video conference and collaborative engineering facilities from the platform)
- We have identified two different main roles:
 - Company Contact
 - The person who facilitates contact with the internal skills, knowledge and resources of the company
 - Company Sponsor
 - The person who makes the decision to accept the product



Companies' Financial participation

- The project fees are set at 15,000 € for a
 16 week project for a team of 4-5 students.
 - Fees cover costs and university infrastructure charges, teaching time, lab services and telecommunication services.
 - An Agreement is signed by the partners to manage IP issues.



Project Timing

- Confirm participation in Responsible-Design@grenoble as soon as possible with a letter of intent.
- Teams are reserved on a first-come, first-served basis.
- Reception of a 5,000€deposit confirms the enrolment in the project.
- After confirmation, please submit a 1-4 page project abstract as soon as you can and no later than by the end of December



Who are our students?

- The program is open to students who have a solid academic background in engineering.
 - At least 5 semesters Completed.
 - 1st Year of Master's degree (EU Bologna process)
 - English Speaking necessary.
- Everybody may apply
 - Program can be included in exchanges with Grenoble INP partners
 - European Erasmus programs
 - E-MIRACLE partners
 - Members of the Cluster Network
- Key partners: EU: Karlsrhue (De), Bath (Uk), Eindhoven NI,
- Asia: NUS (Singapore), Vietnam, China, Thaïland



Our Resources

- The students have free access to the resources of GI-NOVA: the New Platform for innovation, Design and Prototyping
 - Engineering software: CAE, PDM, CAD (ProE, Catia),
 - Physical prototyping facilities: Rapid Prototyping, Machining,
 - Design space
 - Remote collaborative engineering facilities
 - Video-conferencing system
 - Library
 - Project Management software
- G-SCOP, Research Center in Integrated Design
 - The project can use the resources of the research centre situated in the same building.
 - The Academic Staff members the project are also members of the research centre
 - Research areas of the centre are
 - Sustainable design, User centered design
 - Collaborative Engineering
 - Design for Manufacturing
 - Information Management



The facilities of the International Network of Grenoble – University of Innovation



GI: The French reference in Industrial Engineering

- 430 Students (+ 80 visiting students in exchange programs)
- 150 Students graduate each year
- 2 Curricula (Engineering Design and Supply chain management)
- 40 teachers are members of well known reseach labs
- **70** Phd Students



8 major companies involved in the industrial steering committee

One of the 6 « grande écoles » of



International@GI

A priority for

Grenoble génie industriel

20 nationalities at ENSGI

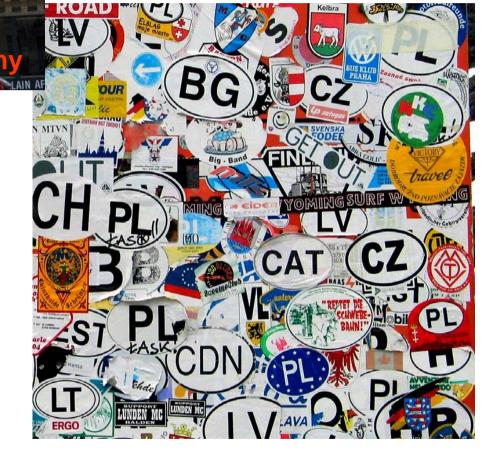
80 International Students

74 partner universities in

32 countries

12 international students in double diploma programs

1 office for international students



Grenoble organizes the Spring Council 2009 of ESTIEM (April 2009)



« Génie Industriel » in the heart of the French Alps

