

responsible-design@Grenoble

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

Your contact :

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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 : Karlsruhe (De), Bath (Uk), Eindhoven NI,**
- **Asia : NUS (Singapore), Vietnam, China, Thailand**

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 research labs

70 Phd Students

1 technological platform dedicated to Design, Prototyping and Industrialisation

8 major companies involved in the industrial steering committee



One of the 6 « grande écoles » of





International@GI

A priority for global economy

- 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

Design and Organize

