

TRAINING AND RECRUITMENT INITIATIVE: A COMPUTER AIDED ENGINEERING SCHOOL

EnginSoft represents a highly innovative engineering and technology organization and an important player in the European Computer Aided Engineering market. Ever since its foundation in 1984, EnginSoft serves a loyal customer base representing various industries and academic institutions with different background. In September 2008, EnginSoft has launched a Training & Recruitment Initiative in Europe with the aim to support the company in its home market Italy as well as its growing European Network of subsidiaries, daughter and partner companies. **Course Participants will be taught and trained in various CAE sectors by outstanding experts from both EnginSoft and partner universities. Theoretical lessons linked to industrial applications will allow participants to gain deep insights into the world of CAE, within a relatively short period of time. The Program of Intensive Training Courses will commence in February 2009.**

The principal objectives of the Computer Aided Engineering School are :

- To provide a highly skilled, young and flexible expert work force which is and will be indispensable to stay competitive and to meet the demands of the future technology market.
- Course graduates will be invited to join the teams of EnginSoft and its Network and thus to work with various industries (Automotive, Aerospace, Oil&Gas, Chemical&Process, Appliances, Biotechnology and others)
- Furthermore, Course graduates will support work that is being carried out in the frame of several research projects (mainly EC funded), and in this way, help to continue and intensify EnginSoft's strong commitment to research. The initiative also aims at PhD students.
- Course graduates with a strong interest in software may back up the EnginSoft software development team to implement new technologies.
- Our main idea is to create a 'single' community at European Level (with some extension to the USA), among the different local teams/partners of EnginSoft which are currently based in Italy, France, Germany, Spain, UK, Sweden and USA. This Community will be based on an interactive and frequent exchange of skills, competences and manpower.



Beneficiaries :

This Call is intended for both, young graduates and/or post-docs, from faculties, such as engineering (all sectors), informatics, mathematics and physics.

Structure of the Initiative

General Information:

- in 2009, two courses will take place in February and September, the plan is to repeat the initiative on a yearly basis.
- the entire costs for Course Participants' travel and accommodation will be covered by EnginSoft
- an incentive of 2400 Euro will be offered to those Course graduates who are selected and accept to be engaged in one of the EnginSoft or Partner Offices in Europe

The long-term vision is to collaborate with TCN, an international consortium of companies and research institutes, and in this way, to support TCN's utmost ambition to transfer knowledge and education through state-of-the-art technologies from science to industry.

Scientific Committee:

The initial group of esteemed experts from European Research and Academic Institutions will include a total of up to 15 individuals and will be published on the Portal.

The Scientific Committee will form part of the Faculty. Indeed, one of the main objectives of the Initiative is to establish and subsequently promote a Faculty.

Content and structure of the Courses

Each Course will consist of three phases:

1. **Introductory phase (150 hours)**

common to all Participants:

Virtual Prototyping applications are classified by categories of problems from both the industrial and research point of view. There will be also some training on leadership, innovation, working practices and philosophies, confidentiality issues, etc.

2. **Advanced phase (250 hours):** participants will be divided into subgroups to get advanced training in specific sectors. There will be at least two subgroups, most likely in:

CFD

turbulence, multi-phase, reacting flows, fluid-structure interaction, turbo-machinery

Process integration and optimisation

DOE, optimization algorithm, response surfaces, data mining, Robust Design, ...

Simulation of manufacturing processes

casting, forging, plastic injection, machining, ...

Advanced mechanics applications

non-linearity, multi-body, impact analysis, ...

Lessons will be divided into:

- Theoretical background (with trainers from outstanding universities)
- Industry and research related topics
- Specific background of the technologies supported by EnginSoft
- Hands-on experiences

3. **Course Project (100 hours):** A specific project will be developed with each Participant, with tutoring from scientific/application staff of EnginSoft and/or partner universities. The Course project may be carried out at partner companies' sites thus allowing Participants to appraise the possible placement.

Registration and acceptance procedure

Applicants should submit a CV in electronic format by using the template provided on the website of the initiative (www.enginsoft.com/school).

The CV is in the standard EC format but includes a table with specific questions for a self-evaluation of competences and background in the field of Virtual Prototyping. The website is open without any time limitations



KEY INFO

School website: **www.enginsoft.com/school**

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