

# Courses to learn research skills via research, with 4 laboratories on one single site

## Quality research

Research at ENSIACET is supported by many industrial actors and focuses on improving knowledge, with priority accorded to industrial applications, and the use and transfer of technology.

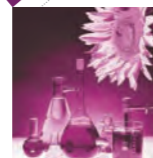
According to the "Industry and Technology" enquiry carried out in November 2005, A7 is the leading selective institute in France in the field of transformation of matter, with 6 M euros in turnover generated via industrial contracts. A7 is the second selective institute in the Midi-Pyrenees region and ranks 9th in France if all disciplines are considered.

## Resource laboratories

All four laboratories are fitted out with ultra high technology equipment and specifically designed structures. The laboratories are located nearby on the same site at Toulouse-Labège, ensuring optimum synergies between teams.

## The media library

A7 students can access a wide range of educational resources: more than 10,000 specialist publications in chemistry, processes and industrial engineering, not to mention the best scientific and technical data bases available.

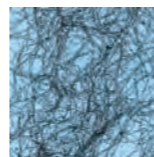


74 individuals including 17 researchers and lecturer-researchers

**Green chemistry**  
Agro-industrial chemistry laboratory - LCA  
Chemical use of agroresources

**Chemical engineering**  
Chemical engineering laboratory - LGC  
Invention of tomorrow's processes

240 individuals including 89 researchers and lecturer-researchers



14 researchers and 6 lecturer-researchers



**Molecular chemistry**  
Coordination chemistry laboratory - LCC  
Discovery of new molecules and original synthesis methods



180 individuals including 66 researchers and lecturer-researchers

**Materials**  
Interuniversity centre for research and materials engineering - CIRIMAT  
Preparation of materials with controlled properties for applications

• M2  
**"M2", a gateway to research**

- Processes and the environment
- Molecular chemistry
- Living chemistry
- Nanomaterials and multimaterials
- Automatic, computerised and decision-making systems
- Hydrology, hydrochemistry, soils and the environment

This research masters can be obtained during the 3rd year, in parallel to the main selective institute course.

This course involves 3 months of specialisation plus 6 months of experience with recognised laboratories.

• PhD  
**PhD Doctorate**

This is the preferred qualification of foreign students and requires an extra 3 years of study. Successfully passing a PhD requires the presentation of a thesis.

## A winning service... !

WHAT DOES THIS SERVICE DO EXACTLY?

- This service meets the requirements of companies in terms of recruitment, work placements, professional training, research and development, and documentation.

- The service establishes long-term relations between industrial partners and ENSIACET engineers.
- The service anticipates future requirements by involving partner companies in the definition of A7 programs and values, teaching objectives and disciplines.

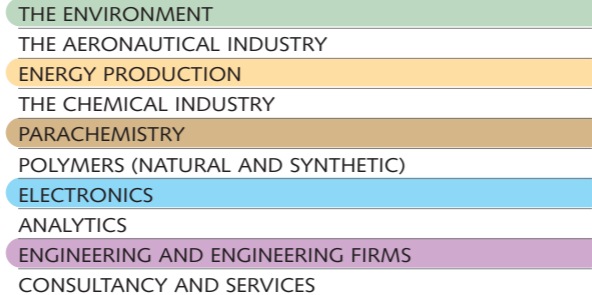
The A7 board and the A7 advanced board are chaired by industrial actors and include many representatives of large groups

## Industrial relations...

ENSIACET is targeted by industrial actors. 3500 former students are currently employed in industry and A7 can boast 4 research laboratories working directly on applied research.



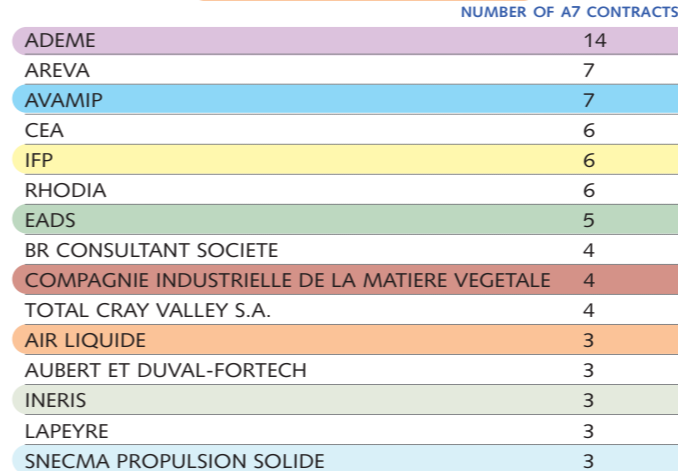
### Sectors of A7 partners



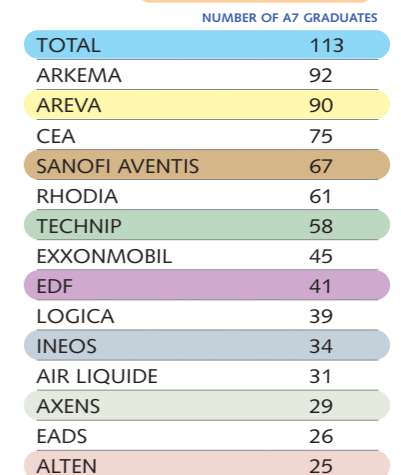
## ...on the hard edge of training

A7 works in partnership with leading companies: these companies sponsor our students, offer research topics, and are the first to test the innovations and processes of our laboratories. This special and interactive relation with industry ensures the strength of Ensiacet and is a point we are proud of.

### Top 15 companies having concluded a research contract with A7



### Top 15 companies employing A7 graduates



# Professional courses



## Professional degrees (L3)

Chemistry processes, pharmaceuticals, the environment, and the use of agroe-resources

This national diploma can be taken as initial training or professional training and is based on a partnership between the IUT (university-level technological institute) in Chemical engineering, Déodat de Séverac high school and UPS (Paul Sabatier university).

## Specialized Masters (MS)

Specialised Masters are high-level courses approved by the French Conference of Selective institutes

- Economic intelligence and Corporate Strategies (co-assigned with ESC Toulouse (business school))
- Global management of technological and environmental risks (co-assigned with the INSA of Toulouse (National institute of applied sciences))
- New energy technologies (co-assigned with the ENSEIHT of Toulouse (Higher National School of electrical engineering, electronics, computer science, hydraulics and telecommunications))

## DHET (Higher diploma in technology)

This course is open to French or foreign students holding a M2 or post-graduate diploma and in-depth scientific knowledge.

- New energy technologies
- Processes
- Industrial systems
- Sampling and physico-chemical analyses
- Global management of technological and environmental risks
- Quality, Safety, Environment
- Materials (science and techniques)

## Professional Masters

Production processes, quality and inspection of health products

Targeting future managers in the pharmaceutical industry in all health product, formulation and galenic development sectors, industrial production processes, the development of processes, testing and requests for notices of compliance.

## Aerospace materials and structures

This masters aims to train senior management with full understanding of the technical aspects of the implementation, inspection and tracking of the specific metal and ceramic materials and composites used in the aerospace field and provide top quality training using the substantial resources available in the region CEAT (Aeronautical test centre) test resources, CNES (National centre for spatial research) spatial simulation, participation of the ISAE (Higher institute of aeronautics and space).

# What our students say...

90% of graduates find employment within 6 months of graduation

*I finished my "diplôme d'ingénieur" at ENSIACET in 2006 and currently, I am doing PhD under the contract CIFRE in collaboration with ICSI, LGC, INP and several French chemical companies. I choose to do my "diplôme d'ingénieur" in "génie chimique" at ENSIACET to give my career an international touch. I was attracted by the reputation of "grande école", which are known for their excellence and elitist approach. I found the syllabus of "génie chimique" in perfect continuation to my previous study of Bachelor in Chemical Engineering in India. The course work is nicely balanced between the theory, "do-it-yourself" and the practical work.*



Nishant PANDYA

*There two unique features which I like the most at ENSIACET. First, it offers several options in the last year. And second, the industrial training which, I think is a key factor for beginning a career in a chemical industry.*

*I believe that my perspective has been widened ever since I have been a student at ENSIACET. The skills and "know-how" I learnt at ENSIACET will really be helpful to fulfil my professional objectives.*

*I am a Brazilian student on an exchange program at ENSIACET. I have generally been impressed with the teaching methods used at A7, which are not always applied in Brazil. I feel this makes a real difference. Time spent abroad is undoubtedly a worthwhile experience, both personally and professionally. Work placements enable us to apply and improve the knowledge gained at A7. Living abroad means students learn to adapt to a different culture. Toulouse is a great place to live, with many ERASMUS students. I have gained new and beneficial experience thanks to the mixed cultural environment. This period spent in France has been very worthwhile and motivating.*

Priscila P. Cruz



Marcello Tognola



*I am an Italian student, from the chemical engineering department of "Politecnico di Milano". The need to learn, to see and to live new experiences induced me to join an international double degree project during my last year of studies. As a participant I went to ENSIACET in Toulouse and spent two years learning process engineering, computer science and, of course, French! It was an incredible opportunity to meet people from all over the world, to share, to cope with and to understand differences in cultures, mostly with a massive amount of laughs! At the university the welcome from the students was warm and the support from the teachers was excellent. They always found stimulating activities to propose, with industrial projects, training periods and alternative ways of teaching. Furthermore at the end of the studies also graduated students are followed by the university associations which care about putting them in contact with companies looking for new engineers to hire!*

*Moreover, all of this staying in the nice city of Toulouse with its historical sites, its numerous pubs and the astonishing traditional food. Definitely an experience worth trying!*



Suling DAI

*I graduated with a diploma in civil engineering and a second diploma in law in China. After graduating, I worked in a construction company between 1995 and 1999. I then changed employer and switched to project management. I joined the industrial engineering department of ENSIACET in 2005 on a course on the Management of industrial systems. I then carried out a period of work placement with a French company, FM LOGISTIC, in China, where the company was investing. The company now has 3 projects underway in China, two near to SHANGHAI, and a third near to BEIJING. I was recruited by FM Logistic China after a 6-month work placement. I started out as works foreman, and subsequently became project manager. I am now purchasing manager and buy equipment (racks, levelling docks, pumps, low power systems, etc.). My logic was straightforward: - I came to France to gain experience, - Toulouse is a beautiful town, and the second largest university town in France. Several selective institutes exist in the area. - I am thrilled to study at ENSIACET, my lecturers are very professional and friendly, and I also get on well with my colleagues.*