

MSC INDUSTRIAL AND SAFETY ENGINEERING (ISE)

Turning innovations into innovative products requires the control of industrial design processes for bringing to market within a reasonable time and price, while providing assurance of their quality and safety. Increasingly, quality and safety requirements also concern the manufacturing process. All these processes involve various human, managerial, technical and financial skills, taking the influence of many external constraints into account (regulatory, normative, legal, and societal, as well as technological).

AIMS OF THE PROGRAM

The Master's program aims to train specialists providing answers to these new industrial and societal expectations in an international context. At the end of the degree, the student will be able to manage the quality and the risks of technological systems (products and facilities) relating to their specification, their design, their implementation, their manufacturing and their operation, and to provide insurance of the actual quality and risk control in a legal, economic and social environment.



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CONTACT

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<http://www.safety-engineering.org>
<http://www.icsi-eu.org/en>



APPLICATION

Deadline: June 15th
Tuition fees: 9000€/year
Reduction down to 5000€/year
for academic partners and selected students
www.toulouse-tech.net

FOCUS

Masters of Science are national degrees accredited by the French ministry of higher education

Further studies: PhD program (3 years)

All MSc Degree holders are allowable to take a step forward in the academic track to get the PhD degree

Pre-requisite: Bachelor's degree

1° year is 100% in English, 2° year is 30% English 70% french.

INP - ENSIACET and INSA are members of the N+i network
www.nplusi.com



RESEARCH INSTITUTIONS & INDUSTRIAL PARTNERS

Academic lecturers are members of the **French National Scientific Research Center (CNRS)**. Industrial lecturers are senior practitioners from various fields: energy (oil and gas, nuclear), aerospace, transportation, chemistry, etc.

The **Institute for an Industrial Safety Culture (ICSI)** brings together a large variety of companies. This institute provides a professional environment and support for students throughout their training: lectures, case studies, internships.



Required documents:

CV, cover letter, copies of academic diploma, academic transcripts, passport or ID card

PROGRAM CONTENT

Semester 1 (30 ECTS): Safety/Risk Engineering: Risk Analysis Approaches, Toxic Risk for Humans and Environment, Process Safety, Structural Safety.

Semester 2 (30 ECTS): Safety/Risk Management: Functional Safety, Designing for Safety, Safety Management, Human and Organizational Management, Professional Project.

Semester 3 (30 ECTS): Industrial Systems Engineering: Project Management, Logistics and Operation Management, Quality Insurance, Information Systems, Economy and Industrial Regulation, Professional Projects.

Semester 4 (30 ECTS): Graduation internship (5-6 months) in industrial companies or in research laboratories.

JOB OPPORTUNITIES

Placement opportunities are varied as the training includes design, production and operation, as well as Management. They include but are not limited to:

- Research laboratories of universities
- Research and development departments of large industrial companies
- Production facilities (production of goods, energy, etc.)
- Engineering companies and consultancy