SCIENCES, INGÉNIERIE ET TECHNOLOGIES

MASTER INDUSTRIAL & SAFETY ENGINEERING

Génie industriel

Niveau d'étude visé
BAC +5

Diplôme
Master (LMD)

Domaine(s) d'étude
Génie énergétique, Qualité industrielle

Accessible en
Formation continue, Formation initiale, VAE

Établissements
INP - ENSIACET

Parcours proposés

- MASTER INDUSTRIAL & SAFETY ENGINEERING M1
- MASTER INDUSTRIAL & SAFETY ENGINEERING M2

Présentation

At the end of the 2nd semester, supervised professional project implementing the skills acquired during the M1; report and presentation in front of a jury including professionals. The 4th semester is the opportunity of an internship application in a company or in a research laboratory. It can be done in France or abroad. This experience is an opportunity for hiring or starting a PhD. This internship ends with an oral presentation in front of a jury (including professionals), supported by a written report (30 ECTS credits).
Dur ation : 5 to 6 months.

Objectifs

Processing innovations to innovative products requires the control of industrial processes for their entry into market within a reasonable time and price, while providing assurance on their quality and safety. Increasingly, quality and safety requirements will also focus on the manufacturing process. All these processes involve various human, technical and financial resources, all under the influence of many external constraints - regulatory, normative, legal, societal... The conduct of such a system requires an organization to control the use of resources, as well as monitoring their commitment to ensure safety and sustainability.

Savoir-faire et compétences

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. The student will be able to exchange in French language about engineering topics. Research and development departments of large industrial groups; Production facilities (production of goods, energy, etc.); Engineering companies and consultants; local authorities, public services specialized or involved in safety insurance.

Admission

Conditions d'admission

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Dernière mise à jour le 05 mars 2020

Bachelor of Science / Engineering for access to M1 (mostly) - Master of Science / Engineering to access M2 (mainly via university partners to ensure the level of education and skills equivalent to the proposed M1). French level required A2 to apply to M2.

Et après...

Insertion professionnelle

Research and development departments of large industrial groups; Production facilities (production of goods, energy, etc.); Engineering companies and consultants; local authorities, public services specialized or involved in safety insurance.

Infos pratiques

Lieu(x)

Toulouse

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Programme

MASTER INDUSTRIAL & SAFETY ENGINEERING M1

	Nature	CM	TD	TP	Crédits
M1 Industrial & Safety Engineering Moyenne Générale	UE				
M1 Industrial & Safety Engineering Moyenne 1er Semestre	UE				30
M1 Industrial & Safety Engineering Moyenne 2ème Sem	UE				30

MASTER INDUSTRIAL & SAFETY ENGINEERING M2

	Nature	CM	TD	TP	Crédits
M2 Industrial & Safety Engineering Moyenne Générale	UE				
M2 Industrial & Safety Engineering Moyenne 1er Semestre	UE				30
UE4 Entrepreneuriat et ingénierie d'affaires	UE				4
3A IMSIC-ISI Fabrication additive	UE				
3A IMSIC-ISI Contrôle gestion	UE				
3A IMSIC-ISI Stratégie d'entreprise et financement	UE				
3A IMSIC-ISI Etude de marchés	UE				
3A IMSIC-ISI Gestion des risques entreprise	UE				
UE2 Ingénierie et management de projets	UE				5
3A ISI Analyse et mise en place projet	UE				
3A ISI Analyse fonctionnelle et de la valeur	UE				
3A ISI Planification de projets	UE				
3A ISI Suivi de projet	UE				
2A1S GI-3A ISI Suivi Projet	UE				
3A ISI Coûtenance et maîtrise des coûts	UE				
2A1S GI-3A ISI Coûtenance	UE				
3A ISI Estimation des coûts	UE				
3A ISI Estimation des coûts ISI	UE				
2A1S GI-3A ISI Estimation des coûts	UE				
3A ISI Progiciel de gest de proj et pratique de MS Project	UE				
UE3 Chaîne logistique	UE				5
3A ISI Planification de la production	UE				
3A ISI Gestion des stocks	UE				
3A ISI Ordonnancement	UE				
3A ISI Simulation de flux	UE				
3A ISI Recherche opérationnelle	UE				
3A ISI Achats et sous-traitance	UE				
3A ISI Relations Clients Fournisseurs	UE				
3A ISI Chaîne logistique	UE				
UE5 Outils pour la maîtrise de projets	UE				4

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3A ISI Progiciel de gest de proj et pratique de Planisware	UE	
3A ISI Gestion des risques projet	UE	
3A ISI Droit économique des contrats	UE	
3A ISI Système d'information et technologie de l'information	UE	
3A ISI ERP et initiation à SAP	UE	
3A ISI Ingénierie des exigences	UE	
3A ISI Management des équipes projet	UE	
UE1 Métiers de l'ingénieur M2 ISE	UE	12
3A ISI Anglais	UE	
3A Education Physique et Sportive	UE	
3A2S Projet 3A	UE	
M2 Industrial & Safety Engineering Moyenne 2ème Semestre	UE	30
UE Stage M2 ISE	UE	30
3A2S Stage 3A (PFE)	UE	

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