

MANAGERS, ENGINEERS, DESIGNERS,

# CHANGE THE FUTURE TOGETHER



## MSC INNOVATION, CREATIVITY & ENTREPRENEURSHIP

Innovating and developing sustainable, green and social projects through entrepreneurship and multidisciplinary team work



Accredited by :



# A COMMON PROGRAM COMBINING ENGINEERING, DESIGN AND MANAGEMENT

The Master of Science Innovation, Creativity & Entrepreneurship was founded from a partnership between South Champagne Business School, EPF Graduate School of Engineering and the Science Park (more than 60 startups) in 2013. Accredited by the "Conférence des Grandes Ecoles", this common program is dedicated to students with a management, engineering or design background.

The program starts with two semesters of classes (with several projects and challenges), followed by a 6-month-internship or incubation program in the Young Entrepreneur Center. **It is designed for people who want to make a difference** and need to give sense to their actions.

## KEY LEARNING OUTCOMES

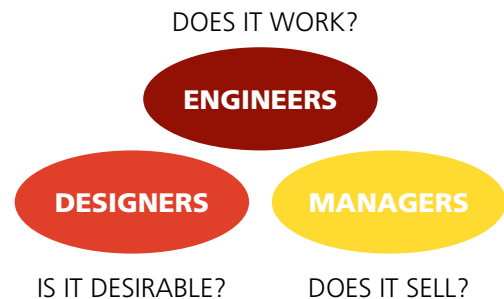
The program aims at developing students' abilities to innovate, cultivating a multicultural mindset and enhancing their entrepreneurial skills. Students will be part of a cross-functional team (with designers, engineers and managers) to solve real business problems. Indeed, for innovation to be effective, complementary skills including soft skills are needed: understanding their value during challenging projects is a critical key learning outcome of this program.

**100%**  
OF THE PROGRAM IS  
TAUGHT IN ENGLISH

## PROJECT DIVERSITY

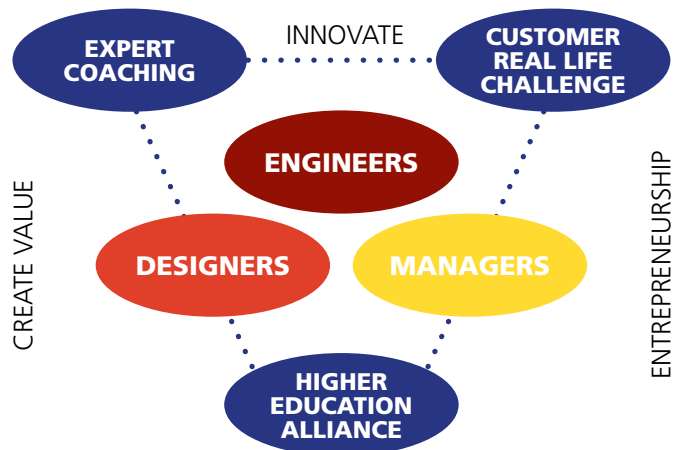
Students will be involved among the following environments:

- Small, medium and large businesses (eg: ENEDIS, ARCELOR MITTAL, PETITJEAN...)
- Startups (eg: LEVELS3D, NEORATECH, AERO3D...)
- Educational and humanitarian projects (eg: SolarDrops, Warka Water, Space Training Adventure...)



## INDIVIDUAL COACHING

Students will have expert mentors assigned to support both their multicultural team (during real projects and challenges) and their personal development (during private meeting). Other opportunities will be created to deliver more learning experiences (hackatons, conferences, social events, mentoring, etc.)



## CAREER PROSPECTS

This program provides tremendous career opportunities in design, management or engineering in all growth sectors. Graduate students will either be able to work in small and medium-size businesses or large companies in R&D or Project management functions.

### TOP RESPONSIBILITIES & JOB OPPORTUNITIES:

- > Innovative Project Managers
- > Business Innovation and Growth Consulting
- > Strategic Management Consultant
- > Head of R&D and Innovation Director/Entrepreneur
- > Business Developer

# PROJECT-BASED LEARNING

## FIRST PERIOD

September - October

November - December

MANAGERIAL COURSES

I - Entrepreneurial Spirit Training	Hours	ECTS	III - Business Development Training	Hours	ECTS
The spirit of entrepreneurship	12	1	Rethinking and designing new business model	12	2
The fine art of failure	12	1	Entrepreneurial finance	15	1
Personal Development Sessions			Business plan achievement	12	1
Introduction to fencing			Customer acquisition for new venture	18	2
II - Project Management Training	Hours	ECTS	IV - Business Development Challenge	Hours	ECTS
Entrepreneurial team formation	12	1	Local entrepreneurs provide a comprehensive picture of the objectives assigned to their companies. Students will have to elaborate a business development plan to reach them. Three days format/small teams of 4 or 5 students	18	3
Design thinking	12	1			
Intellectual property for innovators and entrepreneurs	12	1			
	60	5		75	9

MAIN PROJECT

### ENTREPRENEURIAL EXPERIENCE : CREATE YOUR OWN BUSINESS

Managers, engineers and designers combine their skills to create a business plan and develop a prototype.

PROBLEMATIZATION & IDEATION	Hours	ECTS	BUSINESS MODEL AND SOLUTION	Hours	ECTS
Professional tutoring (CEOs or consultants)	8	-	Professional tutoring (CEOs or consultants)	8	-
	68	3		68	3

ENGINEERING COURSES

I - Emergence of product & project management	Hours	ECTS	III - Technological engineering & dynamics	Hours	ECTS
Product lifecycle management 1: Requirements	6	1	Product lifecycle management 2: Digital MockUp & Additive Manufacturing	22	3
Product Definition	12	1	Numerical simulation	12	1
Change management	12	2	Ecodesign	12	2
II - Entrepreneurial Culture & Networking	Hours	ECTS	IV - Entrepreneurial Culture & Networking	Hours	ECTS
Conferences (entrepreneurs, experts, business angels,...) - Workshops (incubators) - Hackathon	18	-	Conferences (entrepreneurs, experts, business angels,...) - Workshops (incubators) - Hackathon	18	-
	48	4		64	6

THIRD PERIOD

First option: start your own business  
Business Incubation (Science Park) - 6 months - 30 ECTS

Hours - MSc ICE First Period	383
Hours - MSc ICE Second Period	302

Total Hours MSc ICE 685

Msc

Challenges and projects drive the learning process. Students have to face the diversity and intensity that the professional ecosystem requires. It means working effectively in a range of settings with people from other cultures and backgrounds. Specific designed courses support each challenge and project during the academic year. Agility and iterative process using System Engineering, Visualization and High Speed Prototyping are taught.

## SECOND PERIOD

January - February

March

V - Turnaround Management Training	Hours	ECTS	VII - Business Game	Hours	ECTS
Crisis strategy	18	2	Business Game	30	5
Turnaround Management	12	2			

VI - Turnaround Case Study Challenge	Hours	ECTS	VIII - Make or Break Challenge	Hours	ECTS
Students have to work on a case study dedicated to turnaround management. During the competition, professionals will advise them to reach coherence and consistency Four days format-small teams of 4 and 5 students	24	3	Students will randomly pick an entrepreneurial subject and will have to address the issue in a limited time and in a public area Three days format Individual challenge	18	5
	54	7		48	10

### TEAM AND SOLVE A GREEN OR SOCIAL ISSUE ! Use their skills to change what really matters

PROBLEMATIZATION AND IDEATION	Hours	ECTS	BUSINESS MODEL AND SOLUTION	Hours	ECTS
Professional tutoring (CEOs or consultants)	60	3	Professional tutoring (CEOs or consultants)	60	3
	8	-		6	-
	68	3		66	3

V - Industrial & commercial responsiveness	Hours	ECTS	VII - System integration	Hours	ECTS
Supply chain	12	2	Product lifecycle management 3: Connected Objects	18	2
Lean manufacturing	6	1			

VI - Entrepreneurial Culture & Networking	Hours	ECTS	VIII - Product Development	Hours	ECTS
Conferences (entrepreneurs, experts, business angels,...) - Workshops (incubators) - Hackathon	18	-	Students will apply engineering courses to develop a product during the academic year Two days format-small teams of 5 or 6 students	12	2
	36	3		30	4

## PERIOD

Second option: INTERNSHIP  
Innovation Oriented Business Sector - 6 months - 30 ECTS

30	ECTS First Period
30	ECTS Second Period
90	<b>Total ECTS MSc ICE</b>



### SCBS - SOUTH CHAMPAGNE BUSINESS SCHOOL (Y SCHOOLS)

- > **4** programs
- > **1 000** students
- > More than **5 000** alumni
- > **40** nationalities
- > Over **200** partner universities all over the world

### EPF GRADUATE SCHOOL OF ENGINEERING

- > **8** programs on **3** campuses in France
- > **2 000** students
- > **11 500** alumni
- > **15%** of international students
- > **170** partner universities all over the world

### SCIENCE PARK TECHNOPOLE DE L'AUBE EN CHAMPAGNE

- > Over a **15**-year-expertise in innovative projects follow-up
- > **66** innovative companies
- > **420** entrepreneurs and experts mobilized on a regular basis
- > Over **10 000** m<sup>2</sup> of available space: incubator and business centers
- > **70** hectares dedicated to innovation and entrepreneurship



## ENTRANCE EXAMINATION

Applicants must be graduated in the field of engineering, management or design. French students must have completed a Master 1 degree (240 ECTS) and International students a Bachelor degree.

Selection is based on the quality of academic background together with solid professional project. Application of candidates with a significant professional experience may be considered. The Admission Board will consider the applications and may decide for an interview in English to further clarify the motivations of the candidates.

Level of English required: B2 minimum (IELTS, TOEFL, TOEIC accepted)

## APPLICATION FORMS ARE AVAILABLE ONLINE

For Engineer profiles:  
<http://www.epf.fr/en/msc-ice>

For Manager / Designer profiles:  
[www.apply.yschools.fr](http://www.apply.yschools.fr)

## TUITION FEES

For the academic year 2019-2020  
> European applicants: €8.950  
> Overseas applicants: €10.400

## ACCOMMODATION IN TROYES, CHAMPAGNE

Various possibilities of accommodations are available close to EPF or ESC campuses, or in downtown Troyes. Accommodation costs are very reasonable in the range of €300 to €450 per month.

# AN ECOSYSTEM TO DEVELOP YOUR INNOVATIVE PROJECTS!

**T**he city of Troyes is located in Champagne less than 90 minutes away from the heart of Paris. This city shows tremendous dynamism with its 10 000 students. The MSc Innovation, Creation & Entrepreneurship courses, are taught on 4 campuses ensuring a dynamic environment and high level academics.



About 20 major national and international players in innovation and entrepreneurship support the program:



## SCBS (Y SCHOOLS)

217, avenue Pierre Brossolette  
CS 20710  
10002 Troyes Cedex - France

### For further information:

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## EPF - GRADUATE SCHOOL OF ENGINEERING

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### For further information:

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## SCIENCE PARK TECHNOPOLE DE L'AUBE EN CHAMPAGNE

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