

## CAREER PROSPECTS

The Engineering & Management Major offers opportunities in industry sectors where all the major listed groups operate, as well as SMEs. It is of interest to an extremely wide range of industry sectors, because such areas as process optimisation and transformation and the new technological challenges, for instance, are by essence transversal and relevant to all sectors.

### TARGETED POSITIONS

- Production line improvement manager
- Lean project manager
- Product launch manager
- Industrial project buyer
- Head of a logistics site
- Head of transversal industrial performance
- Internal logistics manager
- Decision management systems consultant
- Digitalisation consultant (e-services, web strategy and digitalisation)
- Information system approval consultant
- PMO, project management and information system transformation consultant
- Change management consultant
- Business developer

## PROJECTS

Projects relating to real business issues are offered throughout the major.

**In Year 4:** opportunity and feasibility study (warehouse of the future, rethinking impulse buying in a digital world).

**In Year 5:** performance optimisation (data science, business intelligence, artificial intelligence, etc.), supply chain performance improvement (after sales support, inbound and outbound logistics, production line, warehousing activities, etc.) or improvement of operational excellence performance (ex: lean projects, total quality, etc.)



## ANY QUESTIONS?

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For further information please check the "Application process for international students" section on our website [www.epf.fr/en](http://www.epf.fr/en)



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Consultant in Strategy, Clients and Operations, KPMG (Class of 2014)

I knew at the end of my third year that I wanted to focus on industrial and logistics engineering to work in an industrial environment, be close to the products that my company manufactures, whilst dealing with strategic issues. With the "Engineering and Management" major, I acquired professional experience as well as knowledge of logistics and industry thanks to a project in partnership with Airbus Group. The project was a great learning experience from an academic, technical, organisational and also human point of view. I carried out my Year 4 internship with SDV Logistics, a logistics services provider in Singapore, as the Lancôme client manager and I managed their distribution projects in Asia from the Singapore platform.

After that internship, I realised the importance of gaining international experience and of interculturality. I carried out my Year 5 internship at the Chanel fashion house, in Paris, where I managed the development and production of collection. I am now a consultant for SMEs and major groups, working on performance improvement, business development and the supply chain. I am pleased to have chosen EPF. I "grew up" in this school, surrounded by lecturers who were attentive, challenging and accessible. I learnt to manage budgets and people thanks to the student associations I was involved in. Lastly, I also got to know companies thanks to the teaching staff, all visiting lecturers in Years 4 and 5. This school's strength lies in the commitment of its academic staff, the relevance of student associations and the motivation of its students.

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BUSINESS INFORMATION SYSTEM IMPLEMENTATION  
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AGILE PROJECT MANAGEMENT  
**E-COMMERCE**  
BUSINESS INTELLIGENCE  
INDUSTRIAL PERFORMANCE  
**ENGINEERING & MANAGEMENT MAJOR**  
BIG DATA  
LEAN PROCESS OPTIMISATION  
PHYSICAL AND IS OPTIMISATION  
FACTORY 4.0  
GENERAL ROADMAP  
LOGISTICS  
BUSINESS ENGINEERING



## PROGRAM STRUCTURE

The Engineering & Management major extends over two academic years and is organised around two in-class semesters, alternating with two internship semesters: a student engineer internship in Year 4 and a "final year project" internship in Year 5.

Students may choose between two tracks:

- **One focusing more on analysis and management tools** for companies and how they are deployed, and how to optimise the data generated.
- **One focusing more on business management projects**, and the issues relating to the transformation and optimisation of corporate processes, especially those dealing with the supply chain.

## PROGRAM AIMS

In a global, open and random world, the Engineering & Management major, using a systemic approach, introduces and analyses the various methods for optimising a company's processes and functions, overseeing large-scale IS and business projects in an intercultural environment, where change management is needed everywhere.

The aim of this major is **to train engineers who are able to understand companies' strategic and tactical challenges**, to design and apply the most appropriate tools to optimise their operation, and to facilitate their transformation, especially their digital transformation.

## COMPULSORY CUs – YEAR 4

COURSE UNIT	
<b>Basic and transversal tools   64 h   5 ECTS</b>	
Project and risk management Agile Foundation Statistics	Acquiring the basic skills and knowledge for engineers working on optimisation processes.
<b>Process optimisation   64 h   5 ECTS</b>	
Optimisation issues Modelisation, simulation Operational research Cost drivers	Being able to understand the issues, the nature (financial, physical, data flows) and methods in process optimisation and corporate functions.
<b>IS and business data issues   64 h   5 ECTS</b>	
IT governance - ITIL Data science level 1 Introduction to the IOT AI for business	Understanding how a company's IS is structured and the major types of business needs associated with its operations. Understanding the issues and opportunities of cloud computing. Understanding the main functionalities of IoT, their purpose and operation.
<b>Career and skills   64 h   5 ECTS</b>	
Sectors and Practices Key market issues Thematic workshops Business innovation / Business Game Multicultural management	Being able to understand the market in which students are positioning themselves (industry sector, company, business), current issues and being able to match skills to market needs.
<b>Corporate darwinism   64 h   5 ECTS</b>	
Business contracts Geopolitics / International economics Corporate finance Macro Economics & conjuncture	Identifying the main external and internal forces, which determine companies' industrial and commercial plans, investment plans, technological options and approaches to development more generally.
<b>Project   150 h   5 ECTS</b>	

## COMPULSORY CUs – YEAR 5 – 1 track to be chosen

TRACK 1	
<b>Advanced IS project management   103 h   8 ECTS</b>	
IT Program organisation & management project Tenders and bidding IT project risks issues / security & offshoring / Nearshoring IT cost management	Being able to undertake complex IS projects in project management support mode with major issues, with a good understanding of client issues.
<b>DATA Intelligence and innovation   103 h   8 ECTS</b>	
Data visualisation IA & Data Science CRM & International Marketing Blockchain RGPD	Being able to understand how to add value in companies, with useful data extraction and transformation techniques.
TRACK 2	
<b>Strategic Supply chain   103 h   8 ECTS</b>	
Supply chain: issues and outlook Production management General roadmap Sales forecast / demand planning	Being able to understand supply chain issues, including on a strategic level.
<b>Operational supply chain   103 h   8 ECTS</b>	
Purchasing ERP (Enterprise Resource Planning) Hazard management and optimisation Quality Management	Being able to understand supply chain issues, with a focus on logistics, and to implement solutions for the optimisation of the cost/deadline/quality of physical flows and associated business IS. Being able to use a full cost approach.
<b>Project   150 h   5 ECTS</b>	
<b>Business relations &amp; networking   1 ECTS</b>	

## ELECTIVE CUs – YEAR 5 – 1 to be chosen

COURSE UNIT	
<b>Financing &amp; Entrepreneurship   103 h   8 ECTS</b>	
Business strategy/business model canvas Management of innovation M & A external growth strategies Financial plan & valuation	Being able to understand strategic technology management in a global context, by using analytical tools and economic models.
<b>Factory 4.0   103 h   8 ECTS</b>	
4.0 ISSUES Big data and 4.0 Lean Management / Industrial project HR organisations	Being able to understand the issues and opportunities arising from the digital revolutions in industry.