

Powertrain engineering

Applied graduate studies



Language:
English

Duration:
16 months



Sustainable mobility relies on the ability of tomorrow's powertrain engineers to find innovative solutions. Want to help build an environmentally friendly global automotive industry? Our Powertrain

Engineering program offers training suited to tackle the challenges of an industry in the middle of a profound transformation. You will become a sought-after Global Powertrain System Engineer, directly operational and able to work on all current powertrain technologies. This international program will help you build a rewarding career in a multicultural environment. Seize your opportunity!

IFP School's Master's degree/ Specialized engineering degree (Diplôme d'ingénieur spécialisé)

The transport sector is undergoing many changes. The worldwide growing needs for individual mobility combined with the responsibility of reducing our environmental footprint create exciting challenges for future powertrain engineers. The answer is not unique: multiple technological solutions are required to satisfy the variety of mobility needs.

The automotive industry needs talented, skilled, powertrain system engineers that will be able to work on a "global" stage of engineering. A deep understanding of different technologies is needed to provide a global eco-friendly solution for each need and each market. All this in multicultural environments of international teams.

The IFP School Powertrain Engineering program provides this technical, cultural, and international training enabling you to be immediately operational in all automotive industry fields related to powertrain development and integration. The program content is designed in close relationship with industrial partners and classes are mainly taught by professionals of this industry. This way we ensure that the specific technical and methodological features of these professions can be appropriately conveyed. Working methods and rhythms are based on those used in industry.



The English-language Powertrain Engineering program is a meeting place for students and young professionals from many countries who aspire to become specialists in the study, development, and implementation of the entire drive train, of its electrification and hybridization and of its main components. Increasingly complex working tools and methods, constantly tighter development deadlines and heightened quality requirements all bring about a strong need for international cooperation between the various industrial fields concerned (engine and powertrain manufacturers, electronics companies, component manufacturers, materials and energy suppliers, research laboratories, etc.).

Against this backdrop, this unique graduate program, giving you both cutting-edge technical skills and an overview of

CAREER OPPORTUNITIES

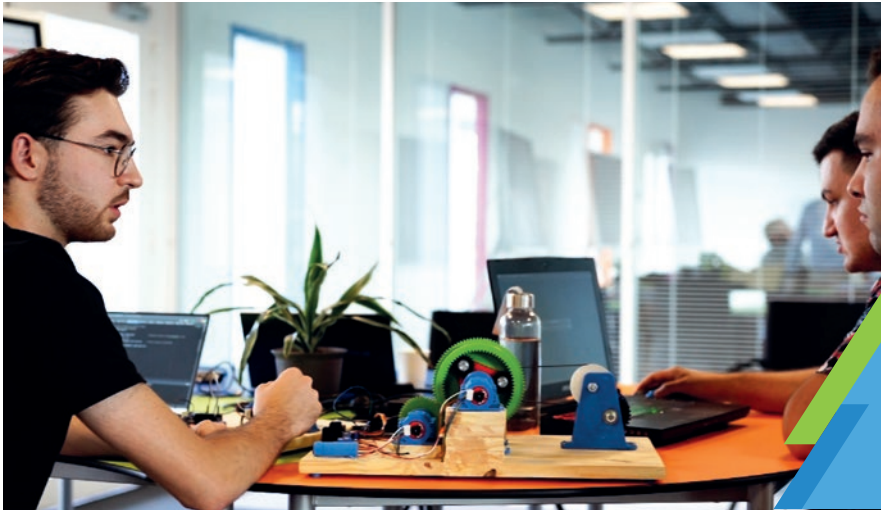
- Car and truck manufacturers
- Automotive engineering and R&D companies
- Automotive equipment suppliers
- Research laboratories, PhD studies

powertrain development, provides the best assets to make you the actors of sustainable mobility and engineers at the core of international cooperation, much sought after by industrial players in these various sectors.



More information: www.ifp-school.com





HIGHLIGHTS

- Ability to address the energy transition and sustainable mobility challenges through a unique system approach
- Access to a strong and wide network in the worldwide automotive powertrain field
- Advanced knowledge of powertrain technologies and applications through an innovative pedagogical approach combining courses, practical works, virtual reality, industrial projects, immersion in the industry, etc.

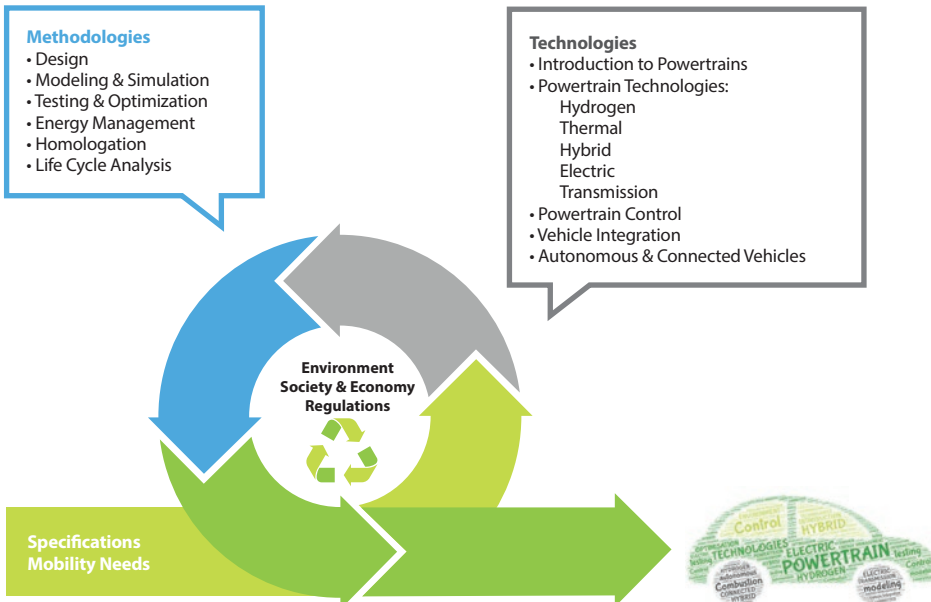
Profile/main sponsors

Students in this program are almost all sponsored by companies (through sponsorships or apprenticeships) that finance both, the tuition fees, and their living expenses during the academic period.

Among these companies, the following have been IFP School partners in recent years (non-exhaustive list): Alpine Cars, Alpine Racing, AVL, Bertrandt, Bosch, Exothermia, Emitech, Faurecia, FEV, Ford, Heurtey, HTI Automobile, Hutchinson, Infineum, IFPEN, Ligier Automotive, Man Energy Solutions, Mann Hummel, Mubea, Renault Group, Stellantis, Symbio, Toyota, Valeo, Vitesco, Volvo Powertrain.

Program content

> The "Powertrain toolbox"



Program schedule

The two examples of schedules shown below correspond to the most frequently encountered cases for students in this program: 16-month continuous program for students with a 4- or 5-year engineering degree; alternating school/ company 16-month program for students with a 5-year engineering degree.

16 months



Continuous program

16 months



Alternating school/company program

● IFP School ● Entreprise

Other possible cases:

- **22-month alternating school/company program** for students in their penultimate year of a major European school or university having signed a double-degree agreement with IFP School.
- **10-month of continuous program** for students with a 5-year engineering degree who have already completed a period of at least 4 months in a company, validated by IFP School at the time of admission.

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