



Offer of industrial sponsorships for the 2014–2015 Class of the IFP School "Powertrain Engineering" International Masters Degree Programme

IFP School and courses description:

The IFP School (www.ifp-school.com) is a postgraduate school located in Paris focused on petroleum and automotive engineering. It is part of IFP Energies Nouvelles (www.ifpenergiesnouvelles.fr) which is a government research centre on petroleum and automotive engineering. The IFP School is 50 years old and is considered the most prestigious school in France dedicated to this domain.

Students must have already completed 4 to 5 years of tertiary education in engineering before coming to the school. At the IFP school they undertake a so-called "sandwich programme" of 16 or 22 months leading to a specialised MSc.

The course is a well-balanced mix of class work and industrial secondment, which should be attractive for Brazilian graduates. Roughly half this time is spent in formal classes and the other half working in industry. The formal teaching is done by experienced engineers already working in the field. There are approximately 80 lecturers in each programme in the Engines and Utilisation of Hydrocarbons department. Around 50 of them are engineers currently working in the industry. The others are research engineers who work at IFP Energies Nouvelles. In this way, each topic is taught by someone highly specialised in the area.

Every student is sponsored in most of the cases by IFP School industrial partners (Car OEMs, OEM suppliers and R&D organisations) or in some very limited cases by an IFP School scholarship. Their sponsoring company pays their school fees (approximately 18 000 euro/student) as well as a half-salary to the student for the entire programme (1100–1400 euro/month tax free). At the end of the programme, around 70% of the students stay with their sponsoring company as full time employees. The IFP School helps good students find industry sponsors as well as helping companies find students who match the profile they are looking for.

There are three main programmes in the Engines and Utilisation of Hydrocarbons. The first, named "Energie et Motorisations", is taught in French and focuses on automotive engines, the second named "Powertrain Engineering" is entirely taught in English and is based on the automotive powertrain. The third programme is named "Energie et Produits". It is taught in French and is based on the petroleum products used by engines (ie. fuels, lubricants, additives etc). The class includes a mix of students from both Chemical and Mechanical Engineering background.

Short description of the Anglophone "Powertrain engineering" programme:

This programme trains engineers in the development and integration of the automotive powertrain. Topics covered include engine combustion, thermodynamics and fluid dynamics, the fuel and air supply, emissions reduction and environmental issues, thermal management, powertrain control and vehicle integration. The programme is particularly suited to those wishing to work in an international setting. Graduates generally begin their careers with automobile manufacturers, engines and transmission manufacturers, global component suppliers and automotive engineering consultancies and centres of development. Since 2007, the Classes involved more than 130 students from India, China, Brazil, Venezuela, Romania, Netherlands, Spain, Greece, United Kingdom, Morocco, Belgium, Japan, Italia and France. Among them, 4 are from ESTII Valencia and 1 from ESTII Seville.

IFP School company sponsorship offers for the 2014–2015 class of the "Powertrain engineering" Masters degree

Each of the following companies established in Europe could be interested by sponsoring some Spanish students in the next classes starting next September 2014.

- *PSA Peugeot–Citroën*
- *Renault*
- *AVL*
- *Volvo Powertrain*
- *Valeo*
- ...

IFP School students recruitment process:

The IFP School new recruitment campaign for our next class starting on September 2014 is open since mid November 2013. It will close at the end of March 2014. Nevertheless as early as possible application is recommended to have more time to arrange the company sponsoring. **Interested students have to apply on the IFP School web site (www.ifp-school.com) no later than March 31, 2014.**

A presentation of the IFP post graduated School will happen in your University. In parallel you could apply and have an interview directly with the professors (practical details explained during the presentation).

More details can also be found on the IFP School web site www.ifp-school.com

- A more detailed presentation brochure of the "Powertrain Engineering" programme **can be downloaded on www.ifp-school.com**)