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IFP SCHOOL: TRAINING THE KEY PLAYERS IN THE ENERGY TRANSITION





TRAINING IS ONE OF IFP ENERGIES NOUVELLES' STATUTORY MISSIONS. IT FULFILLS THIS MISSION VIA ITS IFP SCHOOL.

IFP School provides young graduate engineers with advanced graduate programs leading to professional qualifications in the fields of energy, motor vehicles and the environment.

It has a dual ambition: to provide industry with the skills it needs today and to train the future energy transition players. To achieve these objectives, it focuses on a high level of industrial integration and adopts a resolutely international approach.

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MEETING THE NEEDS OF INDUSTRY, TODAY AND TOMORROW

80%

of IFP School students are sponsored and funded by industry.

WHAT OUR GRADUATES HAVE TO SAY...

APPLIED TRAINING CLOSE TO INDUSTRY

I chose IFP School because it offers specialized training leading to professional qualifications. I studied at a very general engineering school before and I wanted to learn about more technical, more applied professions. I'm currently working on a hybrid vehicle project within the company that sponsors me. It gives me pleasure to think that the prototypes we are working on might be on the roads five years from now..."

Anthony (France)

In 2010, 97% of the School's graduates found a job within three months following the completion of their program.

IFP School is supported by close partnerships with industry, which take a variety of forms. Hence, 80% of IFP School students are sponsored and funded by over 50 French and foreign companies. This level has remained stable despite the economic crisis, demonstrating the strength of the School's economic model. In addition, the number of students is determined in liaison with partner companies on the basis of recruitment opportunities. This strategy ensures that IFP School remains in step with industry requirements. It also explains how it has been able to maintain a high placement level in a difficult economic

context: in 2010, 97% of the School's graduates found a job within three months following the completion of their program.

IFP School also changes the content of its training courses to reflect the needs of industry. In an energy transition context, course units have been developed on energy efficiency, biofuels, CO₂ capture and storage and, more generally, on new energy technologies. Thanks to the skills acquired, IFP School graduates are immediately operational for the energy and transport sectors and prepared for the jobs of the future in the field of NETs.



2010 HIGHLIGHTS

IFP School team victory in the annual AAPG competition

The Imperial Barrel Award Program is a competition organized by the AAPG (American Association of Petroleum Geologists) every year. The best geology students around the world are asked to perform a geological assessment on a zone using real data and to present their results in front of an industry panel. In 2010, the IFP School team came first



among all the international teams. This victory illustrates the excellent training delivered by the School in the field of petroleum geosciences..

A new Executive Master's in Energy & Global Policies

Launched in September 2010 in partnership with Sciences Po Paris, the Executive Master's in Energy & Global Policies combines IFP School's expertise in energy industry issues with Sciences Po's know-how in international and geopolitical relations. The objective of this multidisciplinary approach is to provide professionals with an in-depth knowledge of the technical, legal and financial challenges of the energy sector.

Launch of a Master's in vehicle electrification

The Master's in Vehicles and Sustainable Transport created by IFP School, ENS Cachan, Centrale Paris and Supélec welcomed its first students at the



start of the 2010 academic year. It includes a Motor Vehicle Electrification and Propulsion specialty, aimed at developing the skills that the automotive industry will require to meet the energy and climate challenges of tomorrow.

WHAT OUR GRADUATES HAVE TO SAY...

ENGINEERS TRAINED IN THE WORLD OF INDUSTRY

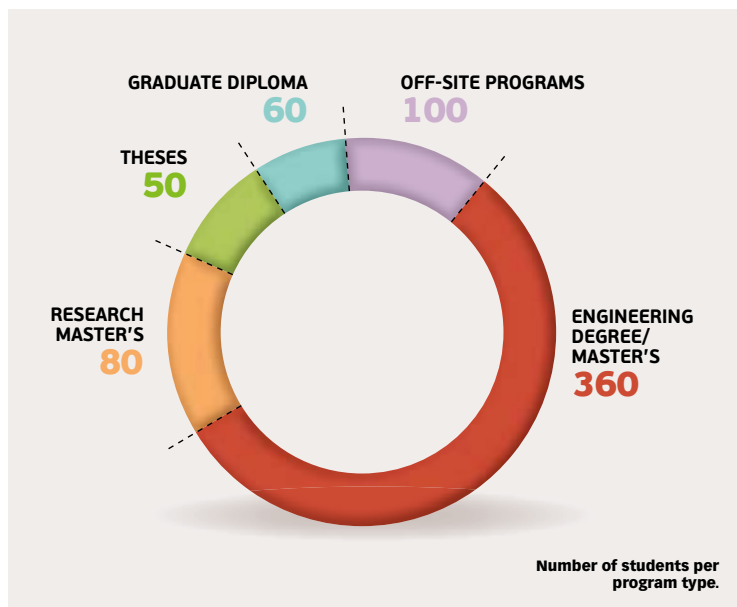
The training I received at IFP School was the ideal complement to my very theoretical initial training. I discovered the basis of a profession, I learned concrete things and I became an engineer working in a very cosmopolitan environment."

François Viaud

Human Resources Director at Total and President of the IFP School Alumni Association

IFP School also owes its success to its teaching model, based on a close relationship with industry. The applied teaching programs incorporate numerous case studies, the use of industrial software, industrial placements, etc. In addition to the School's full-time staff and IFP Energies nouvelles' researchers, around 350 specialists

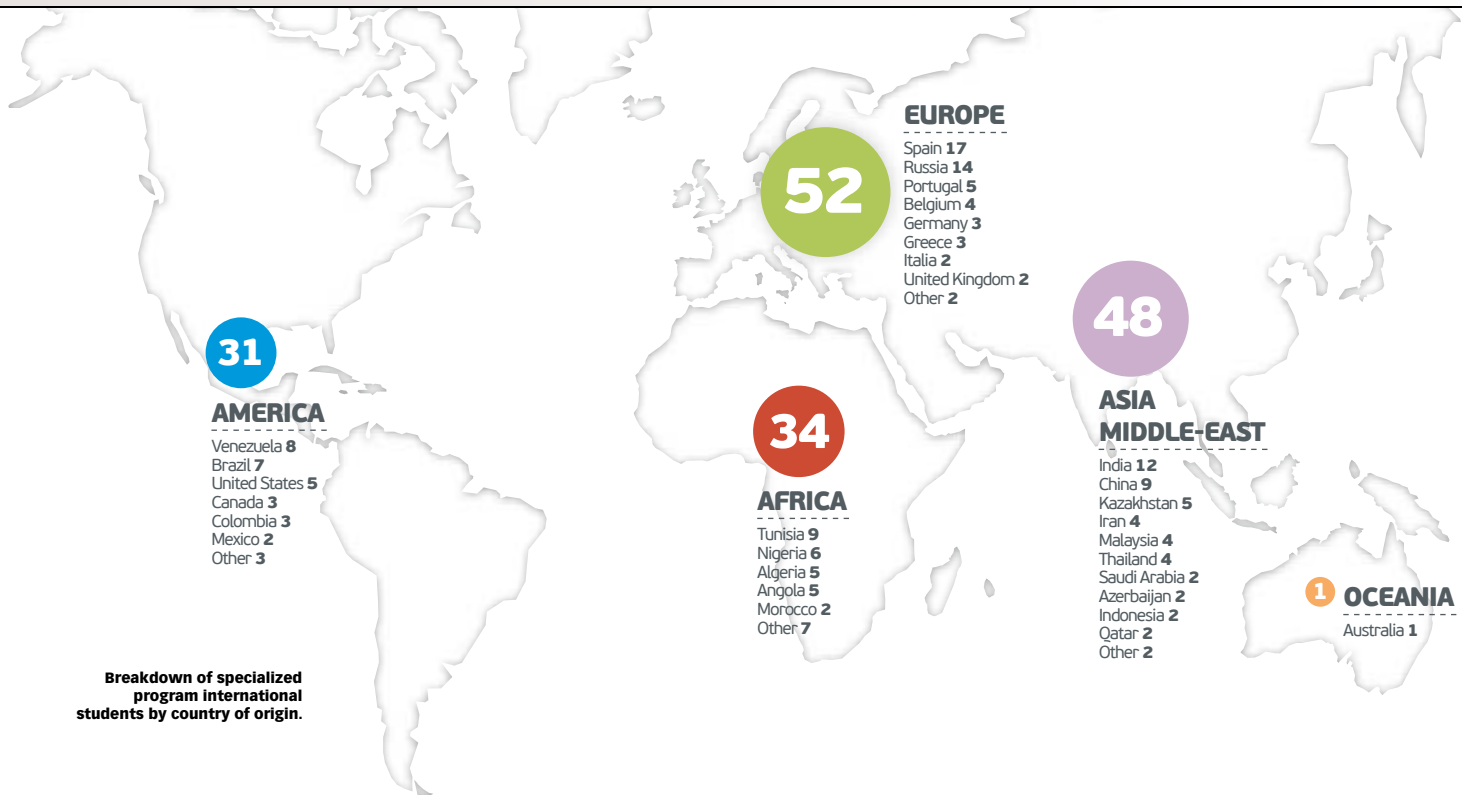
from the world of industry deliver courses each year. Some training courses can also be delivered as part of a work-study program, enabling students to acquire real professional experience thanks to alternating periods within the School and in industry.



High-quality graduate programs

IFP School proposes 18 training programs. The admission rate for specialized programs leading to engineering degrees or nationally-recognized Master's degrees is around 10%.

While most courses are industry-focused, others are oriented towards research or aimed at professionals already working in industry. IFP School thus hosts some fifty PhD students every year. The School has over 600 graduates per year.



Breakdown of specialized program international students by country of origin.

A STRONG INTERNATIONAL COMMITMENT

IFP School has a strong international dimension; almost 50% of its students are foreign nationals, from 45 different countries. What's more, half of its training programs are delivered in English. This multiculturalism appeals to students. It supports the strategy of international companies operating in oil and gas-producing countries, determined to significantly increase the percentage of local employees. Finally, it meets the growing needs of state-owned companies in oil producing countries for qualified specialist personnel.

A recent shift has been observed in the countries represented: in 2010, the proportion of students from countries such as India, China and Brazil increased. This phenomenon is being seen for Master's programs in both energy-related fields and the motor vehicle sector.

Off-site programs are also organized outside France in partnership with IFP Training, a subsidiary of IFP Energies nouvelles. Off-site programs form part of a sustainable development approach founded on nurturing and developing local expertise. These programs depend on partnerships with local universities and industrial sponsors. Programs of this type exist in Algeria, Malaysia and Nigeria, Russia and Venezuela. They concern around a hundred graduates every year. Today, more than 11,000 IFP School graduates are working in the oil, gas and motor vehicle industries, in over 100 different countries. This network forms an important link for French and European industry internationally.

Exploration-Production Center students on practical placement in the field (Spain).



WHAT OUR GRADUATES HAVE TO SAY...

LEARNING OUT IN THE FIELD

Within the first few months, I got the opportunity to put into practice

what I had learned in class thanks to field trips in the geophysics, geology, structural geology and sedimentology domains. We don't just learn in the classroom, but also in the field."

Núria (Espagne)



2010-2011 specialized program student intake.

WHAT OUR GRADUATES HAVE TO SAY...

AN OPEN DOOR TO THE WORLD

There are students of all nationalities at IFP School. To begin with, I wasn't sure I'd be able to integrate but I now really enjoy this multicultural experience. It is helping me to progress. The big advantage of IFP School is also that we can hope to be offered a position in the company that sponsors us. I know I made the right decision when I chose IFP School."

Shadab (India)

ADVISORY BOARD

IFP School's higher education activities are guided by an independent body, the Advisory Board, composed of representatives from public authorities, industry and other higher education establishments. This educational and strategic advisory body meets every six months.

COMPOSITION OF THE BOARD⁽¹⁾

Representing industry

Rémi BASTIEN, *Director of Research, Advanced Studies and Materials, Renault*
 Guillaume DEVAUCHELLE, *R&D Director, Valeo*
 Philip JORDAN, *Head of Recruitment, Total*
 Philippe MARCUS, *Assistant Director, Exploration-Production, GDF Suez*
 Pedro MIRO ROIG, *Technology Director, Cepsa*
 Thierry PARMENTIER, *Group Human Resources Director, Technip*
 Olivier PEYRET, *Vice-President Software Products, Schlumberger Information Solutions*
 Jean-Baptiste RENARD, *Consultant, energy expert*
 Arnd WILHELMS, *Vice-President Petroleum Technology, Statoil*

Representing higher education or research

Alain BRAVO, *Managing Director, Supélec (École supérieure d'électricité)*
 Benjamin CALVO PÉREZ, *Director, Etsim (Escuela técnica superior de ingenieros de minas) of Madrid*
 Bernard LEDUC, *Professor at the University of Brussels, Director of the Applied Mechanics Department*
 Alain STORCK, *Director of Insa, French National Institute of Applied Sciences of Lyon*

Representing alumni

Claude CHAVANNE, *Head of the Operational Environmental Safety Department, Arkema*
 Francis DUSEUX, *Chairman and CEO, Esso SAF*
 Isabelle GAILDRAUD, *Director of Human Resources, Total E&P*
 Patrice MAREZ, *Head of the Design, System, Powertrain, Transmission entity, PSA Peugeot Citroën*

(1) as of 1st April 2011



Discover IFP School

Each year, IFP School organizes promotional initiatives to highlight the attractiveness of the energy, transport and environment sectors with a view to encouraging the best students to apply. The School takes part in more than 20 forums, 5 of which are held abroad. It has a website (www.ifp-school.com) and also set up its own official Facebook page and a YouTube account in 2010.