



ENERGY TECHNOLOGY ECONOMICS AND MANAGEMENT

APPLIED GRADUATE STUDIES

Language: **English**

Duration: **16 months**

Degree: **IFP School's Master's degree (or *Diplôme d'ingénieur spécialisé*) and possibly the partner institution's Master's degree (for double-degree track)**



The energy transition aims to find substitutes for oil & gas by emphasizing on technological innovation. Nevertheless, the economic and financial challenges faced by these sectors cannot be ignored. Our Energy Technology Economics and Management program will provide you with multifaceted expertise, recognized for the ability to fully grasp the economic challenges within the sector. You will receive customized training developed in cooperation with renowned international academic partners, and you will work within a multicultural environment that will advance your career on an international scale. Energize your potential!

PARTNER INSTITUTIONS

Double degree

- Colorado School of Mines (USA)
- University of Oklahoma (USA)
- Texas A&M University (USA)
- Gubkin University (Russia)

Single degree

with company placement

- University of São Paulo (Brazil)
- China University of Petroleum-Beijing (China)
- Audencia Business School (France)
- ESSEC Business School (France)
- Skolkovo Institute of Science and Technology (Russia)
- University of Dundee (UK)

Strategic or geopolitical dimensions, international nature, economic and financial issues, technological adventures, challenges of sustainable development and digitalization: these are a few facets of the world of energy. To ensure their development and to penetrate new markets, the companies in the energy sector need skillful professionals with global and strategic visions.

IFP School has therefore designed an excellence program based on international partnerships that are unanimously recognized in the field of energy economics and management. By joining our Energy Technology Economics and Management program, you enhance your initial training through a cutting-edge curriculum in oil & gas, electricity and environmental economics and management.

Multidisciplinary

Students of the program with diverse backgrounds in business & economics, science & engineering, law & political science, etc.

International & Diverse

Approximately 20 different nationalities from every continents & partnerships with more than 10 academic institutions worldwide. Mix of professionals (average of 5 years of professional experience) & fresh graduates.

Human-sized & tailor-made

40 participants in total and several elective courses through which the students can cover not only the Oil & Gas industry but the whole energy chain in depth (Electricity, Renewables, Carbon & Digitalization).

Techniques & business aspects

Combination of both engineering techniques and management science courses, in addition to real-world practical case-studies provided by industrial partners.

Worldwide careers

By joining this program, you will be a member of an international network. This program Alumni include Ministers (Ivory Coast, Peru, Spain, etc.), CEOs (BP Europe, DEA AG, Petronas, etc.), international organizations (European Parliament, IEA, etc.) and many other top managerial positions in the Energy industry.

CAREER OPPORTUNITIES

- Energy business & economics
- Strategic management & marketing
- Management consulting & analytics
- Energy finance, banking & trading
- Energy techniques & engineering



Find out more: www.ifp-school.com

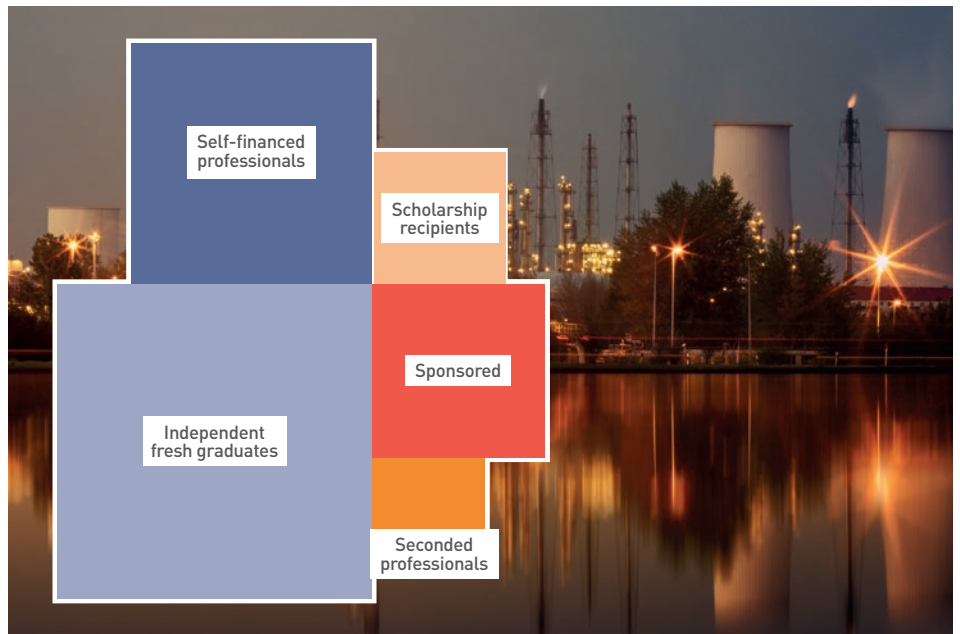


TYPICAL CLASS PROFILE/ MAIN SPONSORS

Students in this program are either self-financed or sponsored by companies (through sponsorships or study leave) that finance their living expenses during their academic period and contribute towards their tuition.

Among these companies, the following have been IFP School partners in recent years (non-exhaustive list):

Axens, Cepsa, EDF, Engie, Gazprom, Pemex, Perenco, Saudi Aramco, Schlumberger, TechnipFMC, TotalEnergies.



PROGRAM CONTENT

> The courses at IFP School are built on 3 major themes

Business and management

- Business accounting
- Strategic management & marketing
- Consultancy project/term paper

Quantitative tools

- Decision science & optimization
- Financial econometrics & forecasting
- Energy systems modeling

Energy

- Energy geopolitics
- Upstream management
- Project evaluation & portfolio management
- Mid- and downstream business
- Natural gas economics & management
- Electricity management & digitalization
- Environmental economics & renewables
- Energy markets & trading
- Petroleum engineering
- Refining & process engineering

> Courses in the partner institutions

When attending two fall terms in one of the following institutions, successful students are awarded two degrees.

Colorado School of Mines

Courses in the MS Mineral and Energy Economics such as: micro/macro-economics, mineral asset valuation, energy economics, etc.

Texas A&M University

Courses in the M Eng in Petroleum Engineering such as: reservoir engineering, fluid flows, drilling, production, EOR, etc.

The University of Oklahoma

Courses in the MBA program such as: managerial economics, financial markets, business strategy, marketing, etc.

Gubkin University of Oil & Gas

Courses in the Master of Economics such as: micro/macro-economics, petroleum economics, mathematics and statistics, etc.

When attending the first fall term in one of the following institutions and doing a placement period of at least 4 months in a company/institution in accordance with their professional project (during the second fall term), successful students are awarded the IFP School Master's degree.

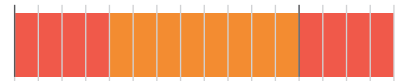
Courses at U. São Paulo, CUP-Beijing, Audencia, ESSEC, Skoltech, Dundee: for the fall term in the chosen partner institution, students are allowed to choose between all the graduate level courses available to them (core and elective courses) according to their professional/academic project. Students must refer to the partner institution's catalogues for course selection.

PROGRAM SCHEDULE

The two examples of schedules shown below correspond to the most frequently encountered cases for students in this program: 16-month program for students with a 4- or 5-year degree, with two terms on the partner's campus (CSM, OU, TAMU, Gubkin) to obtain a double-degree, or with one term on the partner's campus (all other partner institutions) and a placement period in a company for the IFP School single-degree track.

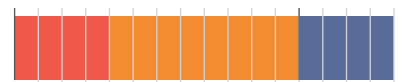
← 16 months →

Double-degree IFP School/Partner institution
(CSM, OU, TAMU, Gubkin)



← 16 months →

Single-degree IFP School
with company placement
(U. São Paulo, CUP-Beijing, Audencia*, ESSEC, Skoltech, Dundee)



■ IFP School ■ Company ■ Partner institutions

* Possibility of a joint-degree.