The oil and gas industry is facing various challenges:
• to discover new resources,
• to optimize hydrocarbon reservoir production,
• to improve the sustainability of field development.

Data management involves:
• integration of large volumes of petroleum data,
• development of effective data management methods and tools,
• handling of Health, Safety and Environment (HSE) crises and risks.

A NEW UNIQUE PROGRAM
IFP School and ENSG have jointly developed a new and unique program in Petroleum Data Management. This program has obtained strong support from partner companies, which will take part in lectures and projects:
• international oil and gas companies: Engie, Statoil, Total,
• service companies: CGG, Schlumberger,
• consulting services: Teradata, CVA Engineering.

The program is data-oriented, mixing background knowledge on exploration and production geo-referenced data and innovative data management methods. The program provides the necessary tools for information technology, project management and communication.

PETROLEUM DATA MANAGER: AN EMERGING JOB
With the exponential growth in data volumes and diversity, a new job is emerging: the petroleum data manager. This profession requires multiple transverse skills covering various domains:
• exploration and production methods and workflows,
• geographic information processing and techniques,
• heterogeneous and large data management technologies,
• project management,
• teamwork, communication and autonomy.

Participants having completed the program will act as leaders in major data management projects for exploitation of subsurface resources, with the following responsibilities:
• to guarantee data preservation and access in order to optimize their patrimonial value through time,
• to organize the data architecture according to companies’ data governance,
• to ensure data integration,
• to coordinate with other teams (geoscientists, reservoir engineers, drillers and project leaders, geomatics experts and Information Technology (IT) experts, etc.),
• to manage multidisciplinary data projects in a multicultural environment.

ADMISSION
This program is open to candidates having an engineering or masters degree in:
• geosciences or reservoir engineering,
• drilling or production technologies,
• geomatics and GIS technologies,
• information technologies.

Young professionals from International Oil Companies (IOC), National Oil Companies (NOC), service companies, Ministries, … may apply for the program.

*This graduate degree program is accredited as a Mastère spécialisé® by the Conférence des grandes écoles.

Find out more: www.ifp-school.com

Embrace the world of data!
This full-time program in Petroleum Data Management is divided into five modules (660 hours of lectures and projects), taught on two campuses: at IFP School (Rueil-Malmaison) and at ENSG (Marne-la-Vallée).

Projects on real datasets provided by the industry offer the opportunity to work in multidisciplinary teams and in a multicultural environment. Fieldwork completes the training program.

All the courses are taught in English.

**Module 1: E&P data and workflow**
- The energy scene
- The exploration and production workflows
- Geological field trip
- Exploration data
- Production data
- Risks and uncertainties
- Integrated data project

**Module 2: geo-referenced data & geomatics**
- Field trip: photogrammetry and surface modeling
- Photogrammetry & remote sensing
- Geodesy and reference systems
- Geographic Information System (GIS)
- Integrated data project

**Module 3: data management methods**
- Introduction to the DMBok
- Data lifecycle
- Data governance
- Data architecture
- Reference and master data
- Data modeling
- Data quality
- Data security
- Data intelligence, mining and knowledge

**Module 4: information technology tools**
- Information Technology/Information Services (IT/IS) for data management
- Structured & unstructured data
- Storage and query
- IT/IS for data security
- Data access and visualization
- Web technologies

**Module 5: final project**
- Project management methods
- Team work: data management project
- Presentation and report

**TUITION FEES**
- Fresh graduates and self-financed students: €16,000
- Professionals on study leave: €28,000

Students could be sponsored by companies that contribute towards their tuition fees.

**PROGRAM SCHEDULE**
The program lasts around one year including:
- 22 weeks of full-time training,
- at least 4 months internship in a company.

**CONTACT**
Anne Jardin
Program supervisor
IFP School
228-232, avenue Napoléon Bonaparte
92852 Rueil-Malmaison Cedex — France
anne.jardin@ifpen.fr

Find out more: www.ifp-school.com