

Geo data management for energy mix

Applied graduate studies



Language:
English

Duration:
11-13
months



As the energy transition accelerates, new data is coming in and data volume is exploding! Our "Geo Data Management for

Energy Mix" program is a unique graduate course that will teach you how to manage georesources and environmental data.

Interested in becoming a player in the digital revolution in energy transition? Ready to tackle the challenges of big data? Join us now and become an expert in geodata management!

Specialized master's degree
(Mastère spécialisé®)

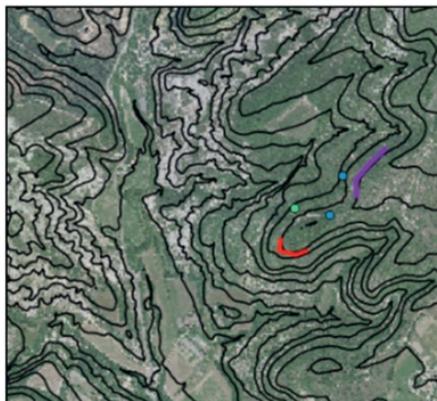
PARTNERSHIP
INSTITUTION

ENSG
Géomatique

Data is now a key asset for companies. Actors of the energy transition also deal with large volumes of various data: data comes from acquisition, is interpreted or modeled, but also produced by real-time systems monitoring the operations. This data comes from different sources, is in different types and most of the data is georeferenced. All this data requires an optimized management for value extraction. The "Geo Data Management for Energy Mix" program trains data managers specialized in the management of data related to energy mix.

At the end of the program, you will be able to:

- Define the key challenges of data management and why it is important in the Georesources value chains



- Understand the acquisition, processing and interpretation of geographical data, including the use of GIS software
- Explain the various functions and procedures described in the Data Management Body of Knowledge (DMBoK) and know best practises in georesources and energy projects
- Apply key functions in the exploitation of georesources: data governance, data modelling, data standards, data quality, data security, data base architectures, etc.
- Collect and handle many types of data used in georesources projects
- Integrate rapidly industrial work groups.



CAREER
OPPORTUNITIES

- Data manager
- GIS engineer
- Data scientist

From international companies to start-ups

The "Geo Data Management for Energy Mix" program includes two international professional certifications:

- Certified Data Management Professional (CDMP) by Data Management Association (DAMA),
- Certified Associate in Project Management (CAPM®).

All courses and workshops are delivered by ENSG Géomatique and IFP School professors and recognized professionals.



Find out more: www.ifp-school.com





SOLAR



WIND



HYDRO



GEOTHERMAL



BIOMASS



NUCLEAR



HYDROCARBONS

HIGHLIGHTS

- Multidisciplinary teamwork on real case studies and data sets provided by industry
- Field work and integrated projects
- Preparation for DAMA CDMP and CAPM® certifications
- Program accredited as a *Mastère spécialisé*® (specialized master's degree) by the *Conférence des grandes écoles*

Program funding/main sponsors

Students in this program are either self-funded or sponsored by industrial partners (through sponsorships or study leaves) that finance their living expenses during the academic period and contribute towards their tuition.

Supporting companies include national and international energy companies, governmental and international institutions.

Program content

<p>Data management methods</p> <ul style="list-style-type: none"> • Information management fundamentals • Data governance • Data life cycle & data quality • Data model & reference data • Machine learning, artificial intelligence • International Data Management Professional Certification 	<p>Information technology</p> <ul style="list-style-type: none"> • Storage and query, SQL, NoSQL • Data security • Data standards • Data access • Data visualization • Data sobriety • Cloud • Python project
<p>Georesources data & techniques</p> <ul style="list-style-type: none"> • Typical data of georesources projects • Geological, seismic & well data • Reservoir & production data • Environmental data • Maintenance data 	<p>Georeferenced data & geomatics</p> <ul style="list-style-type: none"> • Geodesy • Photogrammetry • Remote sensing • Geoprocessing • Spatial data quality • Mapping • Geographic information system (GIS)
<p>Project management & final project</p> <ul style="list-style-type: none"> • Certified Associate in Project Management (CAPM®) • Final project 	



Program schedule

Short full-time program
7-month courses + 4 to 6-month internship

11-13 months

S O N D J F M A M J J A S

Continuous program

● IFP School / ENSG Géomatique ● Company

Admission

- Required: an engineering or master's degree.
- Background: geosciences, petroleum engineering, chemical engineering, mining, geomatics, IT, banking, etc.

Find out more: www.ifp-school.com

