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News

Training and Careers

Hydrogen



SCHOOL Press release

Paris, le 30 January 2024

IFP School, a graduate engineering school specializing in the fields of energy and sustainable mobility, announces the launch of its new Advanced-Master program on Hydrogen.

This unique program is being launched within the context of the growing need for skills related to the energy and environmental transition, particularly in the field of hydrogen (H₂). The objective is for the French hydrogen sector to employ 100,000 people by 2030 (source: France Hydrogène).

Accredited by the French Conférence des Grandes Ecoles (CGE), this graduate program aims to train the next generation of high-level specialists in the field of low-carbon hydrogen. Students will study the entire value chain. Objective: an intake of 25 students for the start of the 2024/2025 academic year.

Marie-Hélène Klopffer, IFP School's Hydrogen Project & Engineering program

Supervisor, explains: "The Advanced-Master program on hydrogen embodies IFP School's concrete shift and commitment to a low-carbon and sustainable world. We were conscious of the somewhat limited availability of graduate training options dedicated to hydrogen, both in France and elsewhere, and it was this realization that prompted us to create this new program. The objective is to train engineers capable of meeting the emerging needs of the hydrogen industry and committed to sustainable resource management."

Delivered exclusively in English, this program is open to graduates with an engineering degree or equivalent with a keen interest in hydrogen technologies and renewable energies, as well as to professionals wishing to acquire skills and expertise in the field of new energy technologies (NETs). The year-long program comprises 6 months of class time (670 hours) and a 6-month company placement, culminating in the defense of a professional thesis. This program is supported by major partners including Air Liquide, Axens, Elogen, Engie, France Hydrogène, GRTgaz, H2V, Lhyfe, Saipem and Volvo.

A program that deals with the entire hydrogen value chain

Primarily employed in the chemicals and refining sectors, low-carbon hydrogen offers real potential in terms of reducing CO₂ emissions and could play a role in the decarbonization of some industrial sectors, electricity storage or even as a fuel in the transport sector.

Against this background, the Advanced-Master program on hydrogen will enable engineers to develop a comprehensive understanding of the hydrogen value chain, offering them:

- **specialized training:** students will have access to an exhaustive training program, delivered by academics, researchers from IFP Energies nouvelles and industrial players, covering all aspects of hydrogen engineering: production and processes, storage and distribution, industrial applications, mobility, economic and environmental aspects, regulations and industry standards, the setting up of projects dedicated to hydrogen.
- **the incorporation of sustainable development challenges:** the Advanced-Master program – Mastère spécialisé focuses on the responsible use of hydrogen and environmentally-friendly technologies.
- **innovative, cutting-edge research:** participants will have access to the very latest technological advances and innovative research conducted by experts from IFPEN and its subsidiaries.
- **industrial expertise:** through its close links with industrial partners, the program offers students a number of opportunities, including internships, exposure to real situations and networking, to facilitate their subsequent integration into industry.

Training qualifying students to take on leading project management roles

Faced with the major challenges of the energy transition and the search for sustainable solutions to address climate change, the aim is for every engineer to acquire key skills such as:

- The analysis of the geopolitical and energy environment, with a particular focus on electricity and hydrogen
- The design and management of an H₂ project within a constantly evolving context
- Contractualization with the sector's players to ensure the long-term viability of the project

Once they have completed the course, the program graduates will have the skills required to take on key project management roles, such as H₂ business developer, H₂ account manager or design office manager in the hydrogen sector, both within multinational companies and green-energy start-ups.

For more information and for applications (open until 15 April) go to [this page](#)

IFP School is also running two free MOOCs dedicated to this sector:

- HYDROGEN FOR MOBILITY, until 4 March
- - HYDROGEN PRODUCTION, from 4 March to 30 April

More information : : <https://academy.ifp-school.com/course/index.php?categoryid=7&lang=en>

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About IFP School

Founded in 1954, IFP School is a graduate engineering school specializing in the fields of energy and sustainable mobility. It is an integral part of IFP Energies nouvelles. It primarily accepts students with five years of higher education and offers advanced training programs, delivered by 32 permanent members of staff, 100 researcher-lecturers from IFPEN and 300 lecturers from the worlds of academia and industry, in the fields of energy engineering and applied sciences, covering various aspects of industry and energy. IFP School works closely with the energy industry, offering students training opportunities through apprenticeships, internships, research and direct interaction with experts from the sector via its 180 partner companies.

About IFPEN

IFP Energies Nouvelles (IFPEN) is a major research and training player in the fields of energy, mobility and the environment. From scientific concepts in fundamental research to technological solutions in applied research, its activities revolve around innovation, based on four key priorities: climate, the environment and the circular economy; renewable energies; sustainable mobility; responsible oil and gas

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