



MASTER'S DEGREE IN SMART BUILDINGS AND ENERGY EFFICIENCY (BI2E)

The Smart Buildings and Energy Efficiency (BI2E) Master's Program is an international Master's-level (M2) program delivered over one academic year in partnership with CY Cergy Paris University (France). Fully taught in English, the program is designed to train highly qualified engineers in the fields of energy performance, smart buildings, and sustainable development. Through a multidisciplinary approach that combines technological innovation, energy management, and environmental responsibility, students acquire the skills needed to design, operate, and optimize the buildings of the future, transforming them into intelligent, connected, and sustainable ecosystems.

WHY STUDY MASTER'S IN SMART BUILDINGS AND ENERGY EFFICIENCY?

- French academic rigor combined with UFE's local industry network.
- 50% of the curriculum is dedicated to applied projects and simulations.
- A degree that opens doors across Europe, the Middle East and beyond.
- Complete your M2 in a single, focused academic year.
- Every student completes a minimum 16-week internship, typically 6 months, in Egypt or abroad, with top-tier construction firms, energy consultancies or international research labs.
- Direct access to PhD programs in France and abroad.



Program duration

1 year (M2 level)

European Credits (ECTS)

60

French Partner University

CY Cergy Paris University

Faculty within UFE

Engineering and Architecture

Degree type

French Master's degree, recognized by the 47 member countries of the Europe Council

Head of program

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POSSIBLE CAREER PATHS:

-Smart Building Project Manager
-Energy Efficiency Business Engineer
-BIM (Building Information Modeling) Manager

-R&D Engineer in Sustainable Systems
-Operations & Maintenance Director

CURRICULUM:

FOUR PILLARS OF EXPERTISE:

1- Energy Efficiency

Building renovation diagnostics, cold production, and high-efficiency AC systems.



2- Smart Systems

Domotics & immotics, supervision, signal processing and technical maintenance.



3- Human-Centric Design

Hygrothermal, acoustic and visual comfort with fire safety and accessibility.



4- Management & Research

Engineering management, entrepreneurship and specialized technical English.



ADMISSIONS CONDITIONS:

Admission to this master's degree program is open to all eligible graduates, including UFE alumni. Candidates should have completed 4 or 5 years of undergraduate engineering.