



THEMATIC PROGRAM GRADUATE SCHOOL@UGA

Training the next generation of international scientists open to the world and its challenges

GREEN

Grenoble Energy Transition Academy

UGA
Université
Grenoble Alpes

GRENOBLE
INP Ense3
UGA

WHAT IS A THEMATIC PROGRAM?

A thematic program is a set of interdisciplinary modules that aims to train the new generation of professionals able to address the major scientific and/or socio-economic challenges of the 21st century.

These modules are related to Master courses and give the students transversal skills thanks to solid training and international collaborations. Students who participate in a thematic program can benefit from:

- A state-of-the-art curriculum through and for research in the 1st and 2nd years of Master;
- A 2-year-scholarship (equivalent to €16,000) for students with a non-French high school diploma;
- Mobility grants for an internship abroad;
- French language courses.

Presentation of GREEN thematic program

Energy transition, renewable energies and decarbonisation, new socio-technical systems, behaviour and strategies of actors, sustainable territories and cities.

Through a series of educational activities, GREEN's objective is to train tomorrow's research and innovation managers in the academic, industrial, and service sectors. They will thus be able to take up the scientific challenges together: according to their initial skills, they will carry out innovative analysis, evaluate policies and systems and build responses, while integrating science and technology, economics and markets, public policies, and human actors.

A SOCIO-TECHNICAL ENERGY TRANSITION

Our societies need to deal effectively and sustainably with the energy transition – whatever the field of application is – which involves taking up major technological, societal and economic challenges.

- Accelerating the transition with the evolution of governance and the functioning of markets, the

arrival of new players in the sectors, the sharing of the costs and benefits of the transition, etc.

- Changes in energy practices at all levels of use (mobility, heating, domestic, industrial): changes in consumption and production behaviours, the emergence of new relationships with energy, etc.
- New regulations and public policies, but also the emergence of new forms of self-organisation of actors: the development of collective self-consumption, shared and/or soft mobility, etc.

THE CONVERGENCE OF ENERGY AND DIGITAL TECHNOLOGIES

- The energy transition based on renewable and decentralised energies allowing a multi-scale vision of energy.
- New multi-energy smart grids going well beyond the electrical smart grid to connect biogas, hydrogen, or heat from biomass.
- The prosumer comes into play and, beyond being a simple user, becomes an investor, producer, responsible citizen, and actor within a community and a social network of energy.

GREEN's detailed program

In parallel to the compulsory courses of their Master's degree or Engineering curriculum, students undertake:

In the 1st year: specific classes on

- Climate and Energy for a Sustainable Transition (3 ECTS)
- Energy systems for the transition (3 ECTS)

In the 2nd year:

- Multidisciplinary project : mentored project carried out in an interdisciplinary group on a problem proposed by an economic partner and/or researchers (3 ECTS)
- Designing a research project : seminar for Ph.D. project development of a research problem and a methodology implementation in a Master's thesis (3 ECTS)

Master programs that offer GREEN

Students should first be enrolled in one of the Master's degree or Engineering School programs listed below:

Master's degree / Engineering curriculum	University Department or School	Language
Electrical Power Engineering (IEE)	Ense3	French
Nuclear Power Engineering (IEN)	Ense3	French
Automatic control and Intelligent Systems Engineering (ASI)	Ense3	French
Energy systems and associated markets Engineering (SEM)	Ense3	French
Mechanical and Energy Engineering (ME)	Ense3	French
Master's degree in Electrical Engineering for Smart Grids and Buildings (SGB)	Ense3	English
Master's degree (M1) in Environment, energy and transport Economics (EEET)	Grenoble Faculty of Economics (FEG)	French
Master's degree (M2) Energy Economics and Sustainable Development (EEDD)	Grenoble Faculty of Economics (FEG)	French
Master's degree in Design of Electrical Energy Systems (CSEE)	UFR Phitem	French
Master's degree (M1) in Applied Mechanics	UFR Phitem	English
Master's degree (M2) in Fluid Mechanics and Energetics (FME)	Ense3	English



How to apply?

Step 1 – Admission to a Master’s degree or Engineering School that participates in the Graduate School

Apply for the master of your choice among those participating in GREEN– see the list on page 3.

When: you must check the Master’s deadlines :

<https://www.univ-grenoble-alpes.fr/formation/admissions-et-inscriptions/>

Step 2 – Admission to the thematic program

Once admitted to the master’s degree, apply for the thematic program by connecting to the GS@UGA website :

www.univ-grenoble-alpes.fr/research/graduate-school/

Then, contact GREEN coordinator by email (see contact section).

When: As soon as you have received your master’s admission letter.

You will receive a notification by email in case of acceptance or refusal of your candidature to the thematic program.

CONTACT

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Scholarships

Graduate School@UGA provides scholarships based on the academic excellence of international students (not hold a french baccalaureate) enrolled in one of the 15 thematic programs.

The scholarship amount is 13,000 € (8,000 € for the 1st year of the Master’s degree and 5,000 € for the second year), plus an internship grant of up to 3,000 € (depending on the internship period).

Graduate School@UGA scholarships are granted for two years (no scholarship is possible if the student registers only in the second year).

You must show interest in the scholarship through your motivation letter when applying for the thematic program.

You will be notified before the start of the academic year (between March and June).

FOR MORE INFORMATION

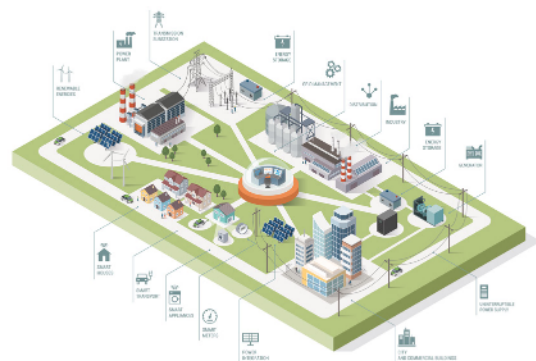
<https://www.univ-grenoble-alpes.fr/green-thematic-program>



Partner research structures and laboratories



SMART GRID ELECTRICITY SUPPLY NETWORK



ELECTRIC POWER DISTRIBUTION