



SCIENCE, TECHNOLOGY, HEALTH

# Master Energy



**Component**  
ENSGTI - École  
Nationale  
Supérieure  
en Génie des  
Technologies  
Industrielles



**Language(s)**  
English

## Subprograms

- › Master's degree Simulation and Optimisation of Energy Systems (SIMOS)

## Presentation

### Why SIMOS?

Due to the complexity of current industrial processes, the development and improvement of the operations of these facilities are possible only with rigorous optimization methods.

The International Master's SIMOS (SIMulation and Optimization of Energy Systems) offers specialized training in the field of Energy and more specifically, the optimization of energy systems.

This training is of high interest to students from around the world.

### Objectives

The International Master's SIMOS (SIMulation and Optimization of Energy Systems) offers specialized training

in the field of Energy and more specifically, the optimization of energy systems.

### Your university

### Skills

The graduates of the Master's degree will be able to analyze and estimate a complex installation of production, conversion, transport, storage, and energy consumption to ensure management. They may also design new units.

## Organisation

### Trainings

**Internship** : Mandatory

## Admission

### Admission requirements



The M1 Simulation and Optimisation of Energy Systems (SIMOS) begins in January. The first semester of the first year will be validated based on the hereafter criteria.

You must hold the following degree:

- A bachelor with a major in Science with prerequisites, including strong basic knowledge in mathematics, physics, heat transfers, thermodynamics, and IT.

The program can also be accessed via an Erasmus exchange.

See [SIMOS Website](#) |  for additional information

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## Target

Foreign students

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## Prerequisites

- Prerequisites include strong basic knowledge of mathematics, physics, heat transfers, thermodynamics, and IT.
- Possibility to follow these courses in the framework of ERASMUS Exchanges.

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## And after

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### Professional insertion

Research and Development or Production, Expertise in optimization of energy systems.

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## Useful info

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### Place

 Pau

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### Campus

 Pau

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### Know more

ENSGTI, Ecole Nationale Supérieure en Génie des Technologies Industrielles

 <http://ensgti.univ-pau.fr/>



# Program

Master's degree Simulation and Optimisation of Energy Systems (SIMOS)