

Field of study **Sciences and engineering**

Training available in

Recognition of prior learning

How to apply :

<https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications>

Course venue :

Campus Marne la Vallée - Champs sur Marne - Bâtiment
Lavoisier 5 Boulevard Descartes 77420 Champs-sur-Marne

Calendar :

M2 work placement of at least 4 months (possibility of starting in March)

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More information :

For further details :

<https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux>

Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

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Master's degree Mechanics Mechanics of Soils, Rocks and Structures in their Environment



Institut Francilien des Sciences Appliquées (IFSA)

Master's degree M2

TO GET THERE

M1 or equivalent (60 ECTS credits) in a related field

ACQUIRED SKILLS

Mastery of mechanical modelling to address research and development issues; mastery of numerical methods for mechanics (including the use of IT tools); mastery of modern methods of analysis and numerical simulation to study the performance and reliability of mechanical systems composed of simple and complex structures whose dimensions range from a few micrometres (microsystems) to metres (structures in the mechanical industry, transport, civil engineering, etc.).

YOUR FUTURE CAREER

Graduates go on to work in mechanical engineering research (or research and development) in major national and international organisations and research centres (such as CEA and EDF), university laboratories, companies or service companies (engineering and/or consultancy).

There is a wide range of fields of application: mechanical industries; civil engineering constructions and structures; transport industries (automotive, aeronautical, space, naval, rail); development of industrial products by the transformation of materials (metals, composites, etc.); production and transformation of energy (petrochemicals, gas, electricity); etc.

Related jobs include: project manager; design engineer; R&D engineer. Graduates can pursue further study through a PhD in Mechanics (leading to a career as a CNRS researcher, faculty member - lecturer, university professor).

BENEFITS OF THE PROGRAM

The second-year Master's in the Mechanics of Soils, Rocks and Structures in their Environment offers high-level training in the mechanics of heterogeneous materials and structures, with varied applications in the fields of civil engineering and transport. It also gives students solid experience in the development of the associated numerical methods (e.g. for multi-scale problems and the simulation of multi-physical problems) and offers personalised training through a choice of options.

More information



