

Field of study **Sciences and engineering**

Training available in

Initial training

Recognition of prior learning

How to apply :

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

Course venue :

ENPC -

Calendar :

Course starts: end of September or early October in M1 and M2
Term ends: end of May in M1 and end of January in M2
Start of M2 work placement: early February.

Contacts :

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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) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76



Master's degree Civil Engineering



Institut Francilien des Sciences Appliquées
(IFSA)

Master's degree M2

TO GET THERE

A general Licence degree in mechanics, physics or maths with a suitable foundation in solid and fluid mechanics. For the second year, students who have passed the first year of the Master's in Modelling and Simulation in Solid Mechanics are automatically accepted. Second-year applicants who hold a different first-year Master's, an engineering degree or an equivalent foreign degree and have sufficient training in solid mechanics and numerical methods are accepted based on their application.

ACQUIRED SKILLS

Ability to understand, analyse and model physical phenomena in solid and structural mechanics and the associated types of transfer.

Ability to implement numerical methods by developing prototype codes.

Mastery of the leading commercial codes used in this field in industry and research laboratories.

Ability to present findings in writing and orally in French and English.

YOUR FUTURE CAREER

Graduates can work as structural engineers or in design, research and development, or as consultants in the field of solid and structural mechanics. The main sectors concerned are the mechanical and transport (automotive, aeronautics) industries. Graduates of this specialisation can also pursue a PhD. They can then go into teaching and/or research in a university, institute, school or national or international organisation.

BENEFITS OF THE PROGRAM

One of the aims of the Modelling and Simulation in Solid Mechanics programme is to give students high-level scientific skills in modelling and numerical simulation in solid and structural mechanics, including from a practical point of view. To this end, 30% of the course in first year and 50% in second year are based on concrete simulation projects involving the different physical phenomena covered in class. In this way, students are familiarised with every stage of the project, from definition, implementation and validation to presentation of the results.

More information



