

# MASTER of Mechanics

## Civil engineering, Materials, Structures

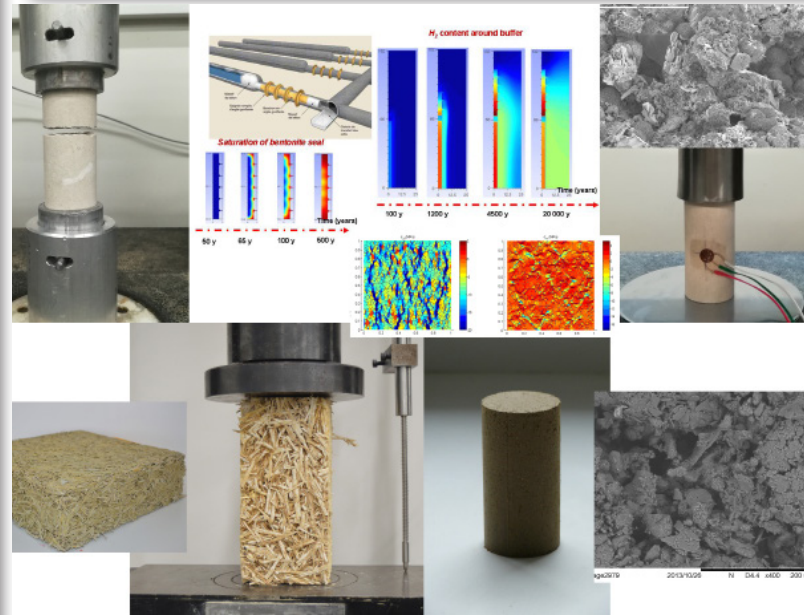
### Presentation

The aim of this program is to offer training for middle and senior management positions in research and development in various sectors of activity requiring advanced knowledge and expertise in mechanical modeling and characterization.

The most significant applications concern several industrial sectors (mechanical engineering, civil engineering...). Graduates of this Masters course will be fully trained to become scientific managers, project leaders, or consultants, including at an international level. They will be able to accomplish missions of organization, production, competitive intelligence, innovation and research and development, in the private sector as well as in public research institutions and higher education.

The main objective of this course are to train university students in the field of mechanics and to give mechanical engineering students the opportunity of doing a PhD.

Speciality approved by  
Polytech Orléans, Polytech Tours et INSA



### Organization

Initial and continuing education.

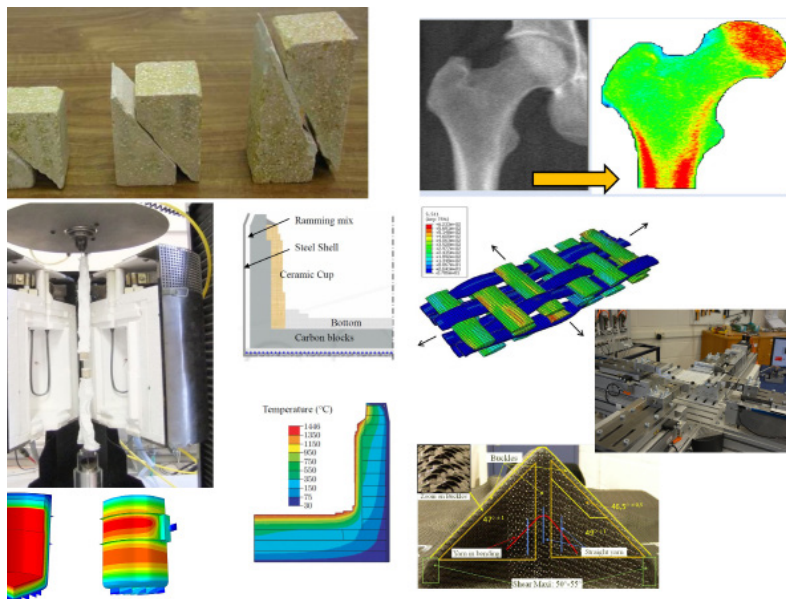
University students follow a single degree course and can join the program either in the first ( M1) or second (M2) year.

Engineering students from the three engineering schools follow a double degree course in their final year (M2).

The M2 course can be followed in English, so is open to non-french speaking students (UO and UFRT).

Most of the course takes place on site, but videoconferencing and virtual classrooms also form a significant component of the program.

The Master's degree is awarded subject to obtaining certification at the B2 level in English



# The Course

## Schedule

M1 : 480hrs classes (Two semesters of 240hrs)

M2 : one semester of 260hrs classes followed by an internship of one semester (25 weeks)

For those on the double degree course, the number of hours specially devoted to the Master's program is 90hrs.

## Location

The Master is jointly approved by 3 educational institutions : Université de Tours (UT), Université of Orléans (UO) and INSA CVL.

The first year M1 can be done either at Polytech Orléans (Civil Engineering, Innovations & Material Design) or at INSA CVL.

The second year M2 can be done at Polytech Orléans, Polytech Tours or at INSA CVL.

The specific Master's courses set up by the three institutions will use videoconferencing and virtual classroom.

2 options to Polytech Orléans (Civil Engineering, Design and Materials Innovations)

2 options to INSA CVL (Industrial Systems Engineering (Blois) & Industrial Risks Control (Bourges))

## Admission criteria

Entrance qualifications required :

M1 : Bachelor of Science (180 ECTS) or equivalent degree.

M2 : Master of Science 1st year (240 ECTS) or equivalent degree.

Specific entrance : Engineering students from INSA CVL, Polytech Tours and Orléans (Civil Engineering, Innovations & Material Design).

## Application

**Candidates who are subject to the Campus France procedure must apply via Campus France for each institution supporting the Master's program.**

### University of Orléans- Faculty of Sciences & Technology

Application ecandidat : <https://ecandidat.univ-orleans.fr/ecandidat-web/#!/accueilView>  
master.mecanique@univ-orleans.fr

### INSA Centre Val de Loire

Master's Office - 88 Boulevard Lahitolle, CS 60013 - 18022 Bourges Cedex, France  
concours@listes.insa-cvl.fr

### University of Tours

Address : Polytech Tours, 64 Avenue Jean Portalis, 37200 Tours

Application ecandidat : <https://ecandidat.univ-tours.fr/ecandidat/#!/accueilView>  
master.mecanique@univ-tours.fr

## Deadline for sending in applications :

**1<sup>st</sup> session from 1<sup>st</sup> April to 30<sup>th</sup> April 2021 / 2<sup>nd</sup> session from 1<sup>st</sup> June to 20<sup>nd</sup> June 2021**

Selection is performed on the basis of the applicant's academic record plus an interview if necessary.

Decision on admissions are made by the Admission board of the Master's program.

Applicants will be informed of the decision by e-mail by the end of May or mid-July.

## Links with the socio-economic world

Interactions with the socio-economic world are at different levels. Industrial partners are involved in the teaching to allow students to acquire professional skills: for example, partners such as CEA, SAFRAN, the DGA. This interaction will obviously be reinforced during the internship. Industrial partners are members of the Development Council.

Lastly, the Master's degree students are potential candidates for CIFRE agreements or in response to calls for projects involving the laboratory in a consortium.

## Links with academic research

The Master's training program is backed by mechanics laboratory Gabriel LAMÉ (LaMé, with cotutelle UT, UO, INSA CVL).

In the Center-Val de Loire Region, this laboratory represents university expertise in mechanics, and specifically in the mechanics of materials, structures and civil engineering.

The research activities of the laboratory correspond to the course content of this Master's program.

The laboratory will internships on the topics covered by the program, some of which in association with companies and industrial partners. The traineeship offer can be extended to foreign and French partners with various new or existing research collaborations with LaMé laboratory.

## CONTACT

### Each school :

[master.mecanique@univ-orleans.fr](mailto:master.mecanique@univ-orleans.fr) (university of Orléans)

[concours@listes.insa-cvl.fr](mailto:concours@listes.insa-cvl.fr) (INSA CVL)

[master.mecanique@univ-tours.fr](mailto:master.mecanique@univ-tours.fr) (university of Tours)

