



SUMMER SCHOOL

 **Builders**
FOR SOCIETY
ÉCOLE D'INGÉNIEURS

WELCOME TO NORMANDY

An exceptional geographical position, a remarkable living environment, an innovative economy and a welcoming population.

→ Such is Normandy : open to the world and to the future !

https://www.youtube.com/watch?v=MIJd5LyFfcc&list=PLNt-cpVy1wKJBTJ0r3bkU_Wq5rwVktJsT&index=2





WELCOME TO BUILDERS ECOLE D'INGENIEURS

➤ Civil engineering school

➤ Located on the Campus of the University

The address of the school is: *1 rue Pierre et Marie Curie, 14610 Epron*





YOUR ARRIVAL IN CAEN

› Travelling by car :

The address of the school is: *1 rue Pierre et Marie Curie, 14610 Epron*; and the building is easily spotted from the main road

Travelling by train:

Travel to Paris, then from Paris Saint Lazare to Caen : <https://en.oui.sncf/en/>

› Travelling by plane :

The main airports are located in Paris (Charles de Gaulle, Orly and Beauvais).

- Travelling to Caen by car: from Paris airports, reaching Caen will take you approx. 2 and 1/2 hours drive.
- Travelling to Caen by train: from the airports, you have to reach Saint Lazare train station in Paris and take the train to Caen. If you are landing in Charles de Gaulle or Orly, you can reach Saint Lazare station by bus or suburbs train, check the Paris public transports website: http://www.ratp.fr/en/ratp/r_61596/access-to-airports/
- Travelling by bus: from Paris (and Paris airports), you can reach Caen by Flixbus
- If you are landing in Beauvais, you will have to take the airport bus to Paris and then the metro to Saint Lazare train station.
- From the airports it will take you approx. 1 hour to reach Paris Saint Lazare.
- From Paris Saint Lazare train station, take the train to Caen. It will take you approx. 2 hours. You can check timetable and buy tickets here: <https://en.oui.sncf/en/>

Other airports : (you might check the flights are often more expensive)

- Caen Carpiquet (5-minute drive from Caen),
- Deauville (1-hour drive from Caen),
- Rennes (2-hour drive from Caen and you might find affordable options depending on where you come from)
- Nantes (3-hour drive from Caen and you might find affordable options, depending on where you come from)



ACCOMMODATION

- University dorms are available
Price : Approx. 340 euros for the 4 weeks
- Each room is equipped with a shower, toilet and washbasin, mini fridge and cabinet space. The cost includes bed linen, blanket and Wi-Fi access. In the dorm, you will find a common laundry room and kitchen – however no crockery nor cutlery is available in the kitchens. Parking spaces are available outside the dorms. You will have personal Wi-Fi access inside the residence and the access password and room key will be given to you upon your arrival.
- <https://www.crous-normandie.fr/logement/cite-cote-de-nacre-secteur-caen/>

WELCOME TO THE SUMMER SCHOOLS



Builders | Summer School

FROM **JUNE 2ND** TO **JUNE 27TH 2025**

SUSTAINABLE BUILDING ENGINEERING

- › Project work in small groups of students tutored by a team of experienced engineers / researchers.
- › Elaboration of a bid proposal to a realistic tender.
- › Topics : A system engineering approach to building design ; Life-cycle and Energy assessment.
- › Innovative construction materials.
- › Hands-on experience with state of the art simulation software.
- › Experimental work sessions in research laboratories.

Contact for application :

+33 (0)2 31 46 23 01

international@builders-ingenieurs.fr

builders-ingenieurs.fr



BUILDERS École d'ingénieurs
Civil Engineering School

Campus 2 - 1 rue Pierre et Marie Curie
14610 ÉPRON - FRANCE

CoMEM +





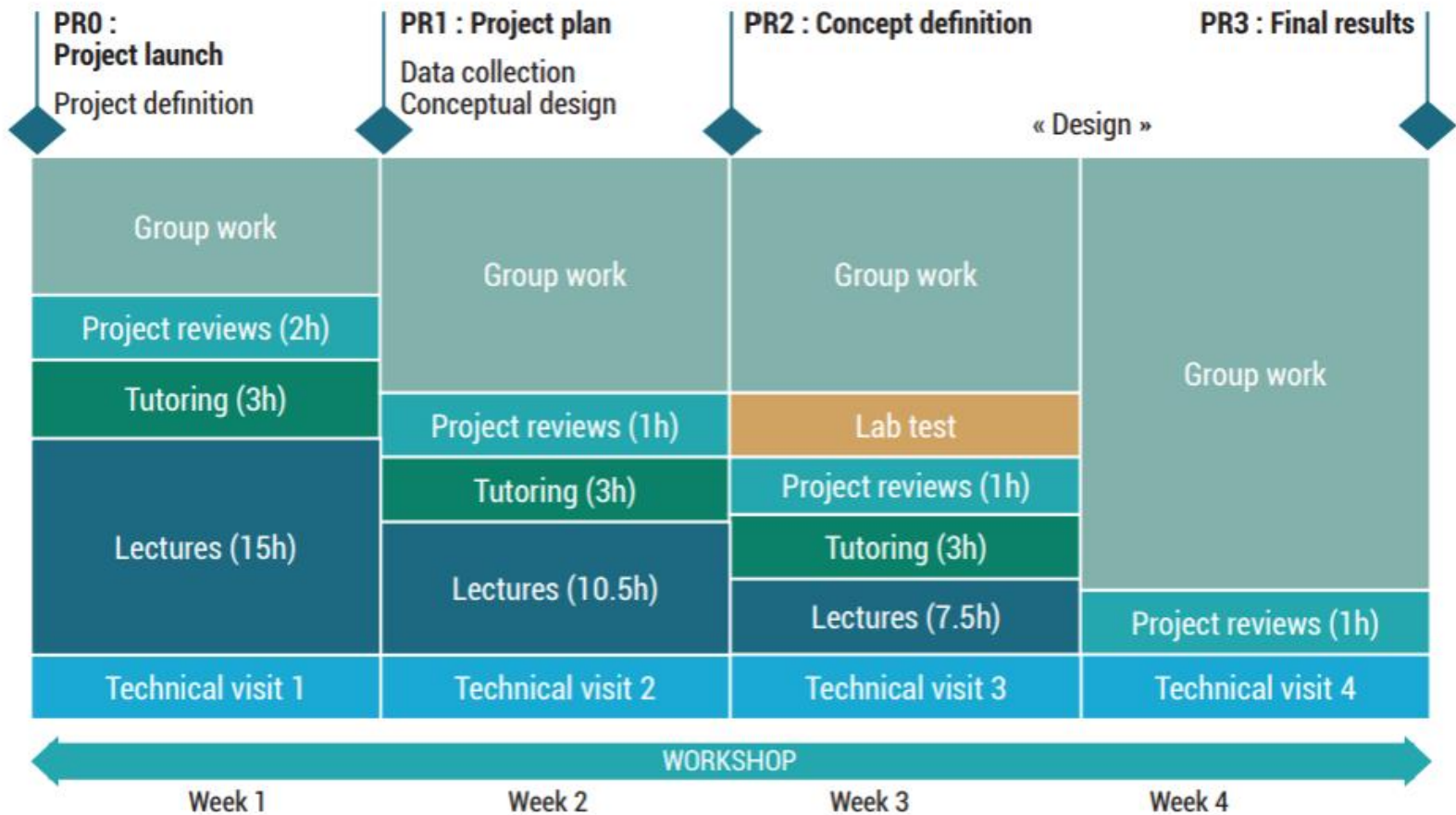
SUMMER SCHOOL

- Open to students that have completed three years of higher education in Civil Engineering or a related field
- A tailored mix of lectures, tutored group sessions and independent group work over a period of **4 weeks** in June
- High level lecturers from International companies and universities
- **Working language : English**
- **Project teams** composed by students from several different international civil engineering schools and universities & BUILDERS Ecole d'Ingénieurs (**20 nationalities in 2024**)
- Assessment by **3 project reviews & 4 technical visits + 1 lab validation**
- Successful project awarded with **8 ECTS credit points**



GENERAL OUTLINE

OUTLINE





BUSINESS PARTNERS



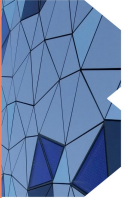


SUSTAINABLE BUILDING ENGINEERING

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| Summer School
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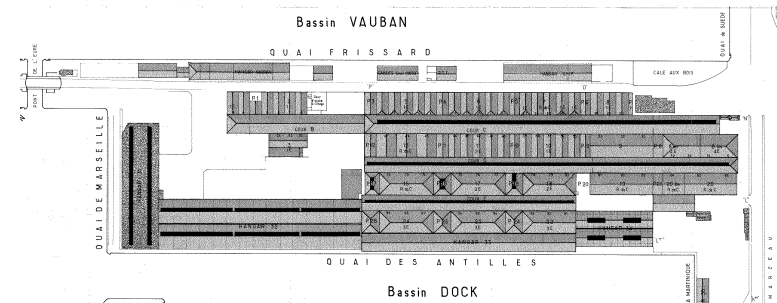
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Civil Engineering School
Campus 2 - La Fourragère/13000
Marseille - FRANCE
COMEM
Builders

Workshop objectives:

- Define and organize a building design project
- Gather and analyze relevant information and data
- Elaborate and evaluate energy- and material saving strategies
- Present and justify choices of concept and design solutions
- Experimental experience in research lab
- Use of state of the Art software
- Propose a BIM model

Addressed topics:

- A system engineering approach to building design
- Life-cycle assessment of buildings and building materials
- Energy assessment of buildings
- Innovative construction materials
- Architectural aspects





PROGRAMME CONTENT



Structural design using software tools :

- ALLPLAN - REVIT – TEKLA – CYPE -
- CADWORK – wood structure design
- DIALUX – light analysis
- EVEBIM-ELODIE – life cycle analysis
- SOLIBRI MODEL - Viewer & Checker
- COMFIE PLEIADES – DESIGN BUILDER - Dynamic Thermic Analysis
- SAP 2000 - ROBOT – structural design
- PLAXIS – ground and mound stability
- KREA / TALREN – structural and global stability for retaining walls



The main topics: (not always available)



- A system engineering approach to building design
- Life-cycle assessment of buildings and building materials
- Energy assessment of buildings and Thermic analysis
- Innovative construction materials
- Architectural aspects
- Project Management
- BIM (x D)
- Design of singular building and Refurbishment.



PROGRAMME CONTENT

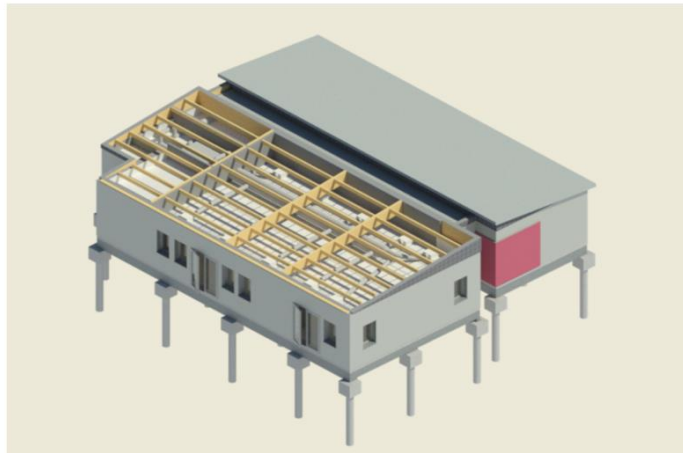
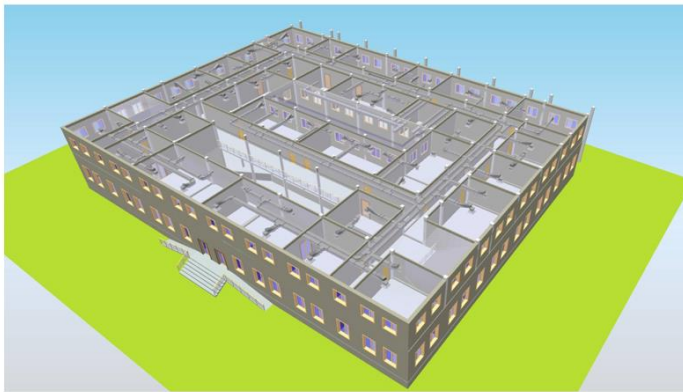
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Builders Code of Engineers
Civil Engineering School
Contact : contact@builders-school.com
14037 PARIS - FRANCE

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7.1. BIM FILES

You have access to 3 BIM files:

- One rvt file of the building to construct
- One rvt file of the site
- One Navisworks file of the project

You have to improve these documents in order to illustrate your answer to the project. You can create new BIM files if needed.

7.2. BIM SOFTWARE

The project is based on Autodesk products. Other software are allowed but every documents transmitted should comply to format defined in the document.

Software below are advised:

- BIM modeling : Revit 2016
- BIM compilation : Navisworks 2016
- Site Integration : Intra works 2016
- Open BIM viewer : Solibri model viewer

8. EVALUATION

8.1. DELIVERABLES

Following documents are requested in the answer:

- BIM model of the building - rvt + ifc
- BIM model of the site - rvt + ifc
- BIM model of the area - on Intra works
- Compilation of all documents - rvt
- Illustration : rvt + jpg
- Memory

8.2. CRITERIA

The BIM evaluation will not focus on the price you could evaluate for this project. Client will look to the capability to propose good BIM process for the construction.

Evaluation will be done as below:

- Design of the entrance of the building : 10/100
- Use of data in BIM Model : 10/100
- Integration of data in BIM Model : 5/100
- Building Simulation based on BIM model : 20/100
- Integration of project in the area : 10/100



FINAL DEFENCE – 8 ECTS



JOB DATING JUNE 26TH



SAVE THE DATE

• June 26th 2025

JOB DATING 9 AM - 4 PM

A Job Dating Event is planned for our BUILDERS partners to meet around 50 non-French-speaking international students looking for internships worldwide.

- › Room reserved for each partner
- › Face-to-face event
- › Time slots need to be booked in advance

If you would like to take part in this event, please contact :

+33 (0)2 31 46 22 96

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builders.ingenieurs.fr



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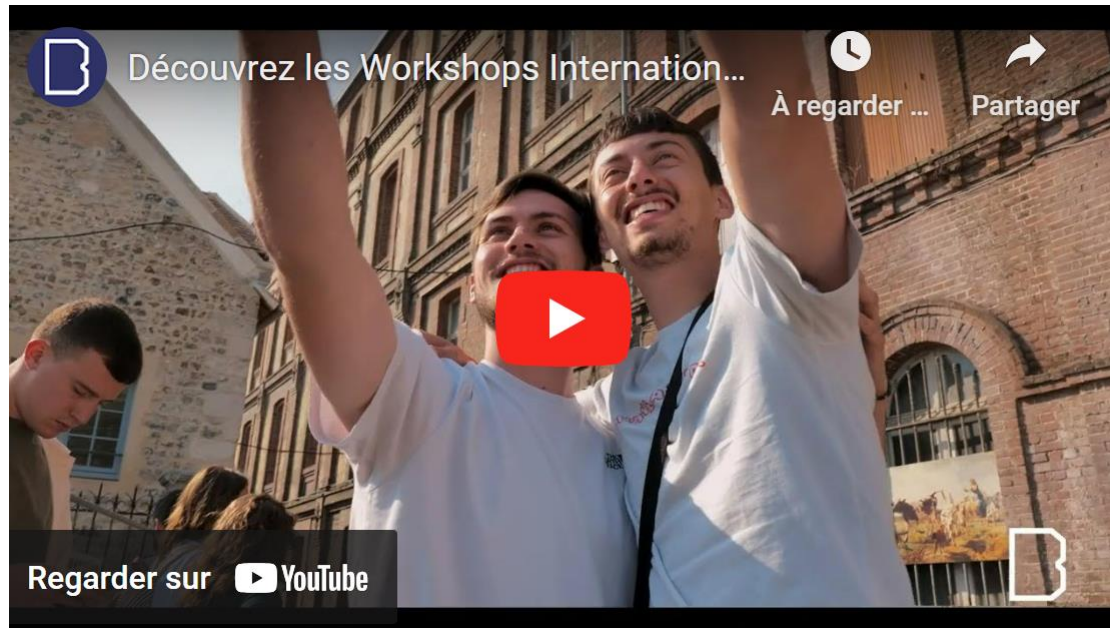
TECHNICAL VISITS





WE ARE LOOKING FORWARD TO WELCOMING YOU !

[https://www.youtube.com/watch?v=4IJCJzoQZnY
&t=72s](https://www.youtube.com/watch?v=4IJCJzoQZnY&t=72s)





YOUR CONTACTS

Students tutors:

At your arrival on the campus, BUILDERS students will welcome you and show you the school, the dorms, the restaurants and will help you to settle in.

Institutional contacts :

Alice Pedrotti
Clément Bousselet
Pavla Claquin

international@builders-ingenieurs.fr