

M.Sc. Program

SUSTAINABLE ARCHITECTURE

Department of Architecture and Technology

Trondheim, Norway
english language

Graduates of Sustainable architecture are professionals in **nature-friendly, climate positive, integrated circular design** with a **life-cycle** perspective in mind.

The courses aim to develop a deep comprehension of the **natural environment's limits and resources**, both in qualitative and quantitative terms. Scientific principles and laws governing nature become a meaningful platform for imagining a **new generation of buildings** that have a positive impact throughout their life-cycle - construction, operation, refurbishment and disassembly. Our students work in interdisciplinary teams focusing on developing cutting-edge solutions to today's challenges.



Photo by: Thomas Høstad



Photo by: Joana Witting



Photo by: NTNU



The sustainable architecture program is closely connected to the research centre on **zero emission neighbourhoods** (ZEN) in Smart Cities and several **EU and local research projects** (ARV, syn.ikia, PEDvolution, making PEDs, MASS IPV and others). As a student, you will have several opportunities to get insight into these projects and work on current research.



Photo by: Joena Wittling

Curriculum



NATURAL ENVIRONMENT
COMFORT CLIMATE
RESOURCES



LIFE CYCLE ASSESSMENT
MATERIALS IMPACT
EMISSIONS



MULTIDISCIPLINARY
INTEGRATION COOPERATION
ENERGY SYSTEMS

THESIS

1 ENVIRONMENTAL PERFORMANCE

climate analysis,
design climate-adapted
buildings using passive
strategies

2 ENVIRONMENTAL IMPACT

life cycle analysis,
design climate-
positive, nature-friendly
transformation projects

+ expert in teams

3 INTEGRATED ENERGY DESIGN

environmental
performance analysis,
design projects with
integrated energy
systems

+ elective course

4 THESIS

develop your own
answer to the current
challenges, in a
research or design
project



The program is open to both international and Norwegian students with a 3-year Bachelor Degree in **Architecture, Engineering or Urban Planning**. Other relevant fields can also be considered.

The program language is English. Your teachers is group of professionals with many years of experience from practice and research. Our graduates work in **internationally renowned architecture and consulting** firms, such as Snøhetta, Skanska, Ramboll, Asplan Viak, and others.

NTNU offers great facilities: a studio place of your own, workshops (wood working and other materials), 3D printing, and environmental testing labs.

APPLICATION DEADLINES

Non-EU / non-EEA citizens : 1st December

EU / EEA citizens: 1st March

Nordic citizens: 15th April

Trondheim is well known as a top location for students and academics, and the city is regularly rated as the best student town in Norway. Studying here, you'll become part of a lively and active student community.



Photo by Michaela Hoppe

Program coordinator:

Ass. Prof. Patricia Schneider-Marin

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About



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