



**LUND**  
UNIVERSITY

# Msc in Digital Architecture and Emergent Futures

LUND UNIVERSITY | SWEDEN

- Master of Science in Digital Architecture and Emergent Futures
- 2 years, full-time, 120 ECTS credits
- School of Economics and Management
- School of Architecture, Faculty of Engineering
- Application deadline: January 2022
- Programme start: August 2022

## PROGRAMME OVERVIEW

Digital Architecture and Emergent Futures is a programme at the intersection of architectural practice and research. It is part of an emerging community of computational designers and is taught in close collaboration with the bioDigital matter research lab and the construction robotics lab at Lund University.

The programme seeks to equip future architects with insights and skills that allow them to take part in shaping a new future: to become designers, creators and changemakers. Trends in technology and culture alike are leading to rapid societal change, and complex patterns and relationships are an increasingly important aspect of professional life. In the programme, students are trained to become transdisciplinary professionals that can uncover and engage complexity in the build environment and beyond.

The studies in Digital Architecture and Emergent Futures focus on emerging digital design processes that empower designers and are set to change the profession in profound ways. Students learn tools such as programming and parametric modelling and engage with digital fabrication methods including 3d printing and robotics. Through a multidisciplinary approach and research-by-design methodologies, the programme teaches, explores, and develops how to use such tools to become a responsible, proactive and accomplished architect.

## PROGRAMME MODULES/COURSES

**Semester 1:** Spatial Experiments I (15 credits), Spatial Experiments I, Theory (7.5 credits), Creative Tools of Architecture (7.5 credits)

**Semester 2:** Spatial Experiments II (15 credits), Spatial Experiments II, Theory (7.5 credits), Programming for Architects (7.5 credits)

**Semester 3:** Computational Design Studio I + II (7.5 + 7.5 credits), Digital Theory (7.5 credits), Applied Robotics for Architects (7.5 credits)

**Semester 4:** Master Degree Project (30 credits)

## CAREER PROSPECTS

After completion of the programme, students will be ready to work as architects, fulfilling the requirements of the EU directive on mutual recognition of diplomas in architecture. Students gain the skills to work in practice, using their knowl-

edge in computational tools to work with tasks typical of the profession. In addition, alumni will have the expertise to work as specialist in computational design at architectural practices and elsewhere. The programme's emphasis in interdisciplinarity and innovation opens possibilities for students to work in many types of organisations, in Sweden or globally. Furthermore, students will be equipped to continue to doctoral studies at research centres across the world, with a solid footing in computation, writing and research by design.

## ENTRY REQUIREMENTS AND HOW TO APPLY

### Entry requirements

A Bachelor's degree in architecture. A digital portfolio of the applicant's own work in the field that clearly proves that the applicant has good potential to benefit from the programme. English Level 6.

### How to apply

#### 1. Apply online:

Go to [www.lunduniversity.lu.se/industrial-design-emergent-futures](http://www.lunduniversity.lu.se/industrial-design-emergent-futures). Click on "Apply" and follow the instructions for the online application at [www.universityadmissions.se](http://www.universityadmissions.se), the Swedish national application website. Rank the chosen programmes in order of preference.

#### 2. Submit your supporting documents:

- **General documents:** Check what documents you need to submit (i.e. official transcripts, degree diploma/proof of expected graduation, translations, proof of English, passport) and how you need to submit them at [www.universityadmissions.se](http://www.universityadmissions.se).
- **Programme-specific supporting documents:** When applying for this programme, you also need to submit a portfolio, a portfolio summary page, a statement of purpose and a CV. These programme-specific documents must be submitted directly to Lund University (not to University Admissions in Sweden). More information can be found on the programme webpage.

#### 3. Pay the application fee (when applicable).

### Selection criteria/additional info

The selection is based on the submitted portfolio and the statement of purpose.

### Tuition fees

Tuition fee SEK 210 000 per year for non-EU/EEA citizens. No fee for EU/EEA citizens. See [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se) for details on tuition fees.



### ABOUT THE FACULTY OF ENGINEERING

The Faculty of Engineering, LTH, is as a place for dreams and discoveries. We inspire creative development of technology, architecture and design and teach some of Sweden's most attractive Master's programmes, all built on a broad research base. LTH is among the leading engineering faculties in Europe with close to 10 000 undergraduate students.

Over 1 000 researchers at LTH work hard to improve the quality of life for people and promote a more careful use of the Earth's resources. Our vision is: Together we explore and create – for the benefit of the world. A world record in 5G technology, solar celldriven water purification, early cancer diagnosis, nanotechnology for more efficient solar panels, and a health-promoting oat drink are some of the innovations developed at LTH.

### ABOUT THE SCHOOL OF ARCHITECTURE

The School of Architecture at Lund University produces creative architects with the ability to identify and address problems within the field of architecture and sustainable design. Students have access to high standard facilities allowing each student their own working area and access to computers, workshops and digital fabrication shops with equipment such as 3D printing, laser cutting and CNC milling. Each student has their own working area with adjustable tables and access to computers within the design studios and computer labs. Additional facilities and resources include workshops where students can utilise a variety of machines and tools, as well as plotting and printing rooms with multiple machines. In the digital fabrication shops, a range of equipment is found, including various digitally-driven tools such as 3D printing, laser cutting, and d CNC milling.

### ABOUT LUND UNIVERSITY

Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has around 44 000 students and more than 8 000 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Lund is considered one of the most popular study locations in Sweden. The University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The unique disciplinary range encourages boundary-crossing collaborations both within academia and with wider society, creating great conditions for scientific breakthroughs and innovations. The University has a distinct international profile, with partner universities in almost 70 countries.

Lund University has an annual turnover of more than EUR 880 million, of which two-thirds go to research in our nine faculties, enabling us to offer one of the strongest and broadest ranges of research in Scandinavia.

The establishment of the world-leading facilities MAX IV and European Spallation Source (ESS) will have a major impact on future scientific and industrial development in both materials science and life science. MAX IV is the leading synchrotron radiation facility in the world while ESS will feature the world's most powerful neutron source when it starts producing neutrons in 2023. These facilities together with the new University campus in Science Village will constitute a science complex and an international hub for research, education and innovation in which Lund University plays a central role.

### CONTACT

Programme webpage:

[www.lunduniversity.lu.se/  
industrial-design-emergent-futures](http://www.lunduniversity.lu.se/industrial-design-emergent-futures)

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Learn more at [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se)

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