

Application requirements

The application deadline is May 31st of each year for start in October of the same year. The required documents are:

- University degree(s) recognized by German universities (at least 210 ECTS)
- Proof of working experience of at least one year (preferably in the relevant working areas of construction, building management and energy) after completion of studies
- Motivation letter in English (max. 1 page of 1,500 letters)
- Tabular curriculum vitae with information about educational and professional background
- Proof of knowledge of the English language at level B2 (or higher) of the Common European Framework of Reference for Languages (CEFR) - not required for high school graduation with English language

You can find more information about the application procedure online at our website:

www.master-in-energy.com

Contact details

We are here to answer your questions!

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- Subsidiary Company of TU Berlin -

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The EUREF-Campus

The study location is on the site of the European Energy Forum (EUREF) around the historical Gasometer in Berlin-Schöneberg. The Campus is the setting of an innovative community including applied research, economic and policy consultancies mainly based on the philosophy of **sustainability**.

Students, who will be the future's energy experts, learn in close cooperation with leading enterprises and institutions located on the **EUREF-Campus** to become acquainted with **practical projects** in the field of energy.

Where we are (Classroom)

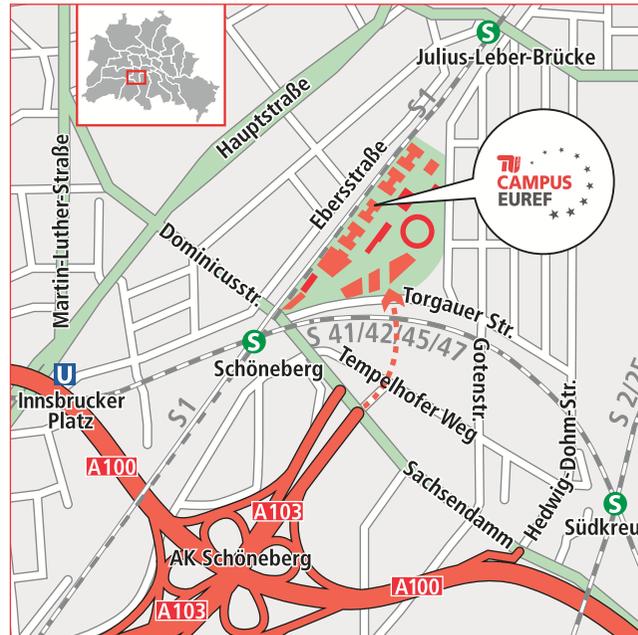
Technische Universität Berlin – Campus EUREF

EUREF-Campus 9
10829 Berlin

Public transport: S-Bahn station Schöneberg: S1, S41, S42, S45, S46
Bus station S-Bahnhof Schöneberg: M46, 248
Bus station Hauptstraße/Dominicusstraße: M48, M85, 104, 187

Trains: Train station Berlin Südkreuz (10 minutes walk)

Car: Urban motorway A 100, exit Sachsendamm



Building Sustainability

Postgraduate full-time master programme in
**Building Sustainability –
Management Methods for Energy Efficiency (MBA)**

3-semester course
taught exclusively in English
at Technische Universität (TU) Berlin – EUREF-Campus

Introduction

This Master program is a comprehensive, interdisciplinary course for those who plan a career in **real estate project planning and management** with a focus on implementing **sustainability** and acknowledging the relevance of **different urban contexts**.

The concept of the German "Energiewende" – literally, energy transition – has gained international attention. It includes a variety of measures that aim at making Europe's largest economy **free of fossil fuels and nuclear energy**. In order to attain this, all areas of energy production and consumption will have to go through a transition process. Besides mobility and industry, buildings are therefore one of the key factors for a successful Energiewende.

The MBA program in "Building Sustainability – Management Methods for Energy Efficiency" comprises **skills, methods, and concepts** to consider different approaches, to understand them, and to align them for reaching **sustainable solutions**. Such competences are indispensable in every building, construction and real estate project that takes **energy efficiency** and other sustainability criteria as balancing economic, social, ecological and cultural aspects in responsibility for future generations into account.

In this regard, students will learn a lot from **experts** and from each other and hopefully enjoy the **international, interdisciplinary** teamwork as well as Berlin's urban and cosmopolitan atmosphere.

Programme content

Winter semester (30 ECTS)	Summer semester (30 ECTS)	Thesis semester (30 ECTS)
Project Management (9 ECTS)	Energy-Efficient Societies (6 ECTS)	Lifecycle Management (6 ECTS)
Energy Performance Of Buildings (9 ECTS)	Real Estate Economics (6 ECTS)	Elective II (6 ECTS)
Introduction Project (6 ECTS)	Interdisciplinary Project (12 ECTS)	Master Thesis (18 ECTS)
Lecture Series (6 ECTS)	Elective I (6 ECTS)	
3 semesters: 90 ECTS		

Module description

■ Project Management

Project management, Building Information Modelling, soft skills

■ Energy Performance Of Buildings

Physics of the building envelope, heating, ventilation and air conditioning, hydraulic systems, power generation, distribution and use, building automation, calculation methods for energy balance

■ Introduction Project

Dependencies of various factors and the order of processing steps in an existing building project

■ Lecture Series

Building and urban area structures: modifications for sustainability and energy management
Economic, social, ecological, cultural and technical dimensions regarding challenges in planning and building/construction processes

■ Energy-Efficient Societies

Understandings of energy efficiency and their consequences for project managers, other building and energy experts, users, and society

■ Real Estate Economics

Feasibility study, market and site analysis, basic financial mathematics, investment appraisal, developer calculation, sensitivity analysis

■ Interdisciplinary Project

Dependencies of various factors and the order of processing steps in a new building project

■ Electives

Smart Buildings (6 ECTS),
Integration of Renewable Energies (6 ECTS),
Innovation and Technology Management (12 ECTS)

■ Lifecycle Management

Facility management, sustainability and building certification systems, building information management and Computer-Aided Facility Management

Advantages and opportunities

The programme has the **orientation on practical implementation**. Whereas building a house has become a manageable task, things become much more complicated when considering the **urban environment** and wider interests such as **energy-efficiency**. Strategic concepts for communication and co-operation are crucial for success in large-scale projects.

The Master programme in Building Sustainability focusses therefore not only on **economic and technical** perspectives, but also aims at imparting basic knowledge in other relevant disciplines. This means that the scope of the programme is both **broad and specific** at the same time. The combination of technology, management, and **sustainability-related** topics is therefore a unique opportunity for young professionals to extend their skills.

Graduates will be able to moderate and manage complex projects in the **planning, construction and real estate sector**. The programme provides the knowledge and skills for assessing projects from **economic, ecological and technical** perspectives as well as for creatively, both in teams or independently, finding solutions considering various stakeholder interests. Graduates will be able to enter the labour market (private and public sector) or continue on with postgraduate studies.

Tuition fees

The tuition fees for the master programme amount to 5,000 € per semester, including the regular administration fees of currently 303.39 € per semester. The administration fees include the so-called semester ticket allowing usage of the public transportation services in the city of Berlin.