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UNIVERSITY OF TWENTE.

Sustainable Energy Technology

University of Twente

Master Postgraduate Enschede

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Course description

Qualification Master of Science

Field of study Engineering

Course summary The Master's programme in Sustainable Energy Technology (SET) enables you to become an engineer with in-depth knowledge on renewable energy technologies.

Course description The world is becoming acutely aware of the urgent need to resolve the many issues associated with energy consumption and climate change. Limited availability of fossil fuels and the need to reduce greenhouse gas emissions call for fundamental innovations in the global energy landscape. Sustainable energy and renewable energy technologies, such as bio-energy, solar energy, wind energy and hydrogen, play a key role in tackling these issues, especially given people's determination to maintain or improve their living standards. This requires experts who combine specialist knowledge with broader social awareness to deliver high-tech solutions with a human touch. The master's programme in Sustainable Energy Technology is interlinked with leading research in developing, optimizing and integrating renewable energy sources such as solar, windwater, biomass and innovative energy technology such as fuel cells and smart grids. New technologies have to be integrated into existing socio-technological networks. Tomorrow's engineers and researchers will explore new forms of energy distribution, new energy market structures and smarter ways to satisfy the demands of our complex society.

Study The master programme SET is divided in two years. In the first year, students follow courses. In most cases, these courses include a practical part in which the acquired knowledge is applied. In the first semester, courses deal with knowledge homologation of students with



subjects	different backgrounds. Also system thinking and the key concepts regarding energy sources, supply and consumption are introduced.
Course objectives	Graduate students have a broad understanding of the energy sector, including for example theoretical concepts and models of innovation processes. They are able to evaluate different energy options within their technological and social context and to test their feasibility. Next to this, they are an expert in at least one sub-area e.g. solar, wind, hydrogen, biomass energy or intelligent electrical networks, transitions and niche management.
ECTS credits	120.00
Duration	2 year(s) full-time
Language of instruction	English
Instruction modes	-
Accreditation	nvao

About the institution

Department	Engineering Technology
Information about the institution	The University of Twente is where talent can best realize its full potential. Students and staff are the key. Together they ensure pioneering research, relevant innovation and inspiring education.

Admission

Admission requirements	1. BSc in applied science or engineering e.g. mechanical, electrical, chemical or applied physics. 2. Motivation letter (max. 2 pages)
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Language requirements	Cambridge Certificate in Advanced English	C1
	Cambridge Certificate of Proficiency in English	C1
	IELTS overall band	6.5
	TOEFL internet based	90

Professional experience required -

Duration 2 year(s)
full-time

	Start date EU/EEA Students	Non-EU/EEA students
Application deadlines	1 Sep 2019 1 Feb 2020 1 Sep 2020 1 Feb 2021	1 Jul 2019 1 Dec 2019 1 Jul 2020 1 Dec 2020
		1 May 2019 1 Oct 2019 1 May 2020 1 Oct 2020



1 Feb 2021 1 Dec 2020 1 Oct 2020

1 Sep 2021 1 Jul 2021 1 May 2021

Year EU/EEA Non-EU/EEA Institutional

2019 (FT) € 2083 € 15750 € 15750

2020 (FT) € 2083 € 16000 € 16000

In short, the following rules apply:

Tuition fees

- The "EU/EEA rate" is the regular fee for students from within the EU/EEA.
- The "non-EU/EEA rate" is the rate for students from outside the EU/EEA.
- The "institutional rate" is for all students who have already obtained a bachelor's or master's degree and who want to start a second programme leading to a degree at the same level or at a lower level.
- Note that FT, PT and D stand for "full-time", "part-time" and "dual", respectively.

Make sure you contact your institution to find out what rate applies to you. The rates listed here are estimates.

Scholarships

Orange Knowledge Programmes (OKP), Erasmus+ Master Loan Scheme, University of Twente Scholarship, Holland Scholarship, Orange Knowledge Programme (OKP), UAF: Foundation for Refugee Students, DUO Tuition and Course Grant, John Monash Scholarships, Erasmus+ Exchange (Australia), New Holland Scholarship Australia, LPDP Indonesia, StuNed - Master, CONACyT Scholarship, GI Bill Scholarship (U.S. Veteran Affairs), Marine Gunnery Sergeant John David Fry Scholarship (U.S.A. Veteran Affairs)

For more scholarships, visit: www.grantfinder.nl

Course website

[More information about the course](#)

Contact

University of Twente

study@utwente.nl

Question about this study? Contact our student team!

study@utwente.nl

Contact information for the study programme

Vragen over onze opleidingen? Bel, chat of mail met ons studententeam



study@utwente.nl

Studie Informatiecentrum

Contact information for the institution study info

study@utwente.nl

Telephone number

+3153 489 5489

Course website

[More information about the course](#)

Institution website

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