



Sustainable Textiles (M.Eng.)

Master's Program
Engineering Department



**Hochschule
Hof**

University of
Applied Sciences

Sustainable Textiles – What is it all about?

In *Sustainable Textiles*, you will gain deeper knowledge about the challenges of the global textile industry today. It is about the quality of renewable and petrochemical based materials, responsible production and environmental production, legal regulation and labour rights. It is about achieving transparency in the complex global value chain in order to create the future textile industry.

During your studies, you acquire the skills needed to create (more) sustainable processes in textile chemistry, optimize production processes and conduct research on innovative fibres and finishings.

With a Master's degree in Sustainable Textiles, you have excellent career opportunities, both in Germany and world-wide. Go for studying at Hof University and start a Master's program that is unique in Germany!



What do I gain with this M.Eng.?

With this Master's program, you

- _ gain a deep understanding of the global challenges of the textile industry,
- _ develop sustainable solutions and
- _ implement and evaluate them in interdisciplinary teams.

In addition, you benefit from

- _ an innovative and diverse mix of teaching methods - practical lab work, virtual learning, blended learning, and case studies besides regular lectures
- _ a perfect interdisciplinary toolbox of knowledge and skills in responsible production, environmental protection and labour rights
- _ development of your intercultural competence
- _ excellent career perspectives

Further information is available on
www.hof-university.de



Fast facts



Degree awarded

Master of Engineering (M.Eng.)



Duration

3 semesters (including Master's thesis)



Language of instruction

Fully taught in English



Internship

Mandatory internship in industry (semester 3)



Tuition fees

No tuition fees; just an administrative fee of approx. € 150 per semester



Services and support for international students

- _ organisational support before and during your studies at Hof University
- _ assistance in finding accommodation
- _ Orientation Week prior to the start of your studies
- _ social integration
- _ career-promoting activities such as intercultural trainings, field trips, and company visits
- _ free public transportation in the cities of Hof and Münchberg

Special features

Internship

Our M.Eng. students conduct a practical internship in industry in the third semester (e.g. in a textile production facility, a chemical supplier or a textile trading company). The Master thesis is project-based and written in cooperation with the company. Thus, you can immediately apply your scientific knowledge and gain profound professional experience at the same time.

Teaching concept

The Master's program is based on a hands-on, interdisciplinary concept. Current topics like circular economy, materials made from renewable sources, and resource efficient processes are interconnected with classic technologies applied in textile production and textile chemistry. In addition, digitalization, innovation and international legal requirements for the textile value chain are considered.

Theory and practical training are closely connected. Our campus Münchberg is excellently equipped: on an area of over 5,500 sqm, weaving, braiding, nonwovens and knitting pilot plants as well as laboratories for pre-treatment, dyeing, chemical finishing and testing of textiles are available.



What do I need to bring?

Academic requirements

- _ **Bachelor's degree** or similar **in engineering or natural sciences** providing sufficient **knowledge in textile technology and textile chemistry** from an accredited university, at least 210 ECTS or equivalent (depending on home country); minimum grade 2,5 according to the German grading system
- _ Sufficient knowledge means that you achieved at least 60 credits (or their equivalent) in textile technology and 20 credits in (textile) chemistry during your first degree.
- _ Applicants with less than 210 credits (ECTS) will be accepted but have to gain the missing credits by attending appropriate modules at Hof University. In this case, please calculate an additional (fourth) semester.

Language requirements

You need to prove your **proficiency in English** by either one of the following options:

- _ TOEFL minimum 90
- _ IELTS 6.5 or above

In addition: **Basic language skills in German, minimum level A1**, proven by official test certificate according to the Common European Framework for Languages (CEFR)

When and how can I apply?

Online application

You register in our online portal Primuss and fill in the application form with your personal details. If you acquired your university entrance certificate abroad, **uni-assist** must assess the certificate before you can send it to Hof University. We advise you to send your documents to uni-assist **at least 4 weeks before our application deadline**.



Application period

WiSe: April 15 - May 31

SuSe: November 5 - November 30



Get your admission letter from Hof University

WiSe: in June

SuSe: in December



Online enrolment

WiSe: in September

SuSe: in March



Orientation Week for international students

WiSe: last two weeks of September

SuSe: first two weeks of March



Start of your studies at Hof University

WiSe: October 01

SuSe: March 15

WiSe: Winter semester **SuSe:** Summer semester

Semesters 1 & 2	Practice-oriented theory	<p>Textile Technology / Textile Chemistry</p> <ul style="list-style-type: none">_ Advanced Textile Production_ Advanced Textile Chemistry_ Effect and Process Auxiliaries_ Resource Efficient Application Technologies <p>Management / International Law</p> <ul style="list-style-type: none">_ Legal Framework and Digitalization of the Textile Value Chain_ Sustainable Project Management <p>Sustainability and Renewable Products</p> <ul style="list-style-type: none">_ Circular Economy/ Certificates and Eco Labels_ Sustainable Functionalization and Surface Modification of Textiles_ Renewable Products for the Textile Industry (Fibers, Auxiliaries, Dyestuffs) <p>Electives (choose one)</p> <ul style="list-style-type: none">_ Project Simulation_ Sustainable Products for Medical or Hygienic End-Use_ Simulation and Optimization
Sem. 3	Internship	<ul style="list-style-type: none">_ practical work-experience_ Master's thesis with a company

„With „Sustainable Textiles“, an outstanding Master's program was created on Campus Münchberg. The focus on the connection of textile chemistry and sustainability in the textile production chain is unique and future-oriented. Thus, graduates have great perspectives for their future careers.

TEGEWA member companies are looking forward to your applications for internships as well as topics for the Master thesis.“

TEGEWA e.V.

TEGEWA e.V. is a specialist association of the chemical industry, representing more than 100 producers of surfactants, cosmetic basic materials as well as additives and colourings for the textile, leather and paper industry.



Hof University is part of several textile-related networks (e.g. TEGEWA e.V. or the Partnership for Sustainable Textiles). This is a unique opportunity for our students to establish business contacts with potential employees at an early stage, e.g. for internships and research topics for the Master's thesis. Study excursions to innovative textile tech companies and discussions with experts from research and industry form a vital part of the Master's program.

In addition, our campus locations Hof and Münchberg are important centers for textile and materials research.



ifm

Institute for
Materials Science
at Hof University

Our **Institute for Materials Science (ifm)**

takes up the issues of water and energy with an application-oriented focus. The ifm develops innovative and sustainable products and processes by using the core competencies of mechanical engineering, system materials, textile technology, composites, textile design, industrial and environmental engineering. This interdisciplinary approach enables the creation of composites with improved qualities and special functionalities.

The **Fraunhofer Application Center for Textile Fiber Ceramics** is located on our campus Münchberg and dedicated to processing carbon and ceramic yarns. The approx. 1,000 sqm technical center is equipped with state-of-the-art textile technology facilities for the production of 3D fabrics.

What are my career perspectives?

As a graduate, you...

- _ have excellent career opportunities, both in Germany and abroad
- _ you are qualified for a variety of interesting positions in the global textile value chain, such as:
 - _ Research & development (R&D) in the textile chemistry industry
 - _ Project manager or leading position in research and sustainability teams in textile industry (brand, retail, manufacturing, production)
 - _ Project manager or leading position in development department in institutions/ organizations (governmental or non-governmental)
 - _ Cooperative PhD

... Entry positions?

You are ready to work as

- _ Head of quality assurance in textile industry or textile chemistry industry
- _ Research and Development Manager
- _ Quality Manager/ Certification officer
- _ Technical Advisor
- _ Compliance Manager



„Münchberg campus is a place with strong skillfulness in the textile industry and possesses its own affiliated research institute.“

Liying Wang from China
M.Eng. Sustainable Textiles student

Why do you think so?

„The campus Münchberg itself is like a mini-industrial park, including knitting-, weaving-, dyeing-, printing- and finishing workshop, etc., all of which provide a comprehensive platform for combination between theoretical and practical knowledge.“

What else do you like about the program?

„The professors here are all experienced, most of them have worked in industrial companies for decades and share their practical knowledge with us selflessly. The students in the same major are also enthusiastic about professional research, and most of them take the initiative to participate in additional study projects.“



Ankit Dere from India
M.Eng. Sustainable Textiles student

„Sustainable Textiles is a very young and new concept. The program Master's in Sustainable Textiles is very well planned and gives students exposure to recent developments taking place in the area of sustainability and textile technology. It also teaches to build more eco-friendly ideas and focuses on social responsibilities required in today's textile industries. The professors are highly professional and make the sessions interactive and entertaining.“

student-centered innovative
green applied research **start-**
up culture fun **active student**
life 24h opening campus
university application-oriented
knowledge water and energy efficiency
focused on graduate
employability modern teaching
methods international **career**
promoting activities for students
open-minded and **friendly**
atmosphere modern architecture



Why choose Hof University?



At Hof University, you can expect

- _ a first-class, hands-on education,
- _ a safe, friendly and open-minded study environment, especially for international students,
- _ extensive personal support by our Welcome Center, International Office and Career Service.



In addition, you benefit from

- _ assistance in finding accommodation,
- _ orientation sessions prior to the start of your studies,
- _ additional activities such as intercultural trainings, field trips and company visits,
- _ 24-hours access to computer labs and library,
- _ free wifi on campus.



About Hof University

Founded in 1994 as a Bavarian state university, Hof University of Applied Sciences offers a very attractive study environment with its modern architecture and state-of-the art facilities. Practice-orientation, internationalisation and graduate employability are at the heart of teaching and research at Hof University.

German students and international students from more than 60 countries learn together on our open-minded, intercultural campus. Exciting student initiatives (e.g. eSports, Fairtrade Group or Formula Student) make student life even more interesting.

All professors and lecturers have a strong academic background as well as practical experience in the industry. In addition, all our professors hold a PhD. As a result, graduates of Hof University are ideally prepared for the domestic and international labor markets.

Located at the top of Bavaria, Hof and Münchberg are safe and cozy towns in the heart of Europe with all amenities of a university town. Their green surroundings are ideal for all outdoor activities, and major cities like Berlin or Munich are within easy reach.



Who can I contact with further questions?



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Welcome Center

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