

# MEDICAL MICROTECHNOLOGY



INTERNATIONAL  
SUMMER SCHOOL  
2022

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## IMPRINT

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### PROJECT MANAGEMENT

DSN Connecting Knowledge  
[www.dsn-online.de](http://www.dsn-online.de)



# MASTER IN MEDICAL MICROTECHNOLOGY

The Master in *Medical Microtechnology* offers you the opportunity to deepen your understanding in the areas of health, engineering and life sciences. You will have the chance to combine the different aspects of Medical Technology and Microtechnology in one study programme. It explicitly addresses the area of miniaturisation, which on the one hand covers the entire field of minimally invasive surgery (endoscopes, instruments, surgical robots) and on the other hand includes for instance implants for drug delivery.

Medical Microtechnology stems from the collaboration of the universities *Technische Hochschule Lübeck*, the *Universität zu Lübeck* in Germany as well as the *Syddansk Universitet* in Sønderborg, Denmark. The project is funded by *Interreg Deutschland–Danmark* and aims to establish a new cross-border study programme. Regional medical technology companies and regional hospitals will be directly involved into the compilation of study contents, their concrete design and their first application.

What are you doing  
this summer?  
Travel, study, earn  
some credit points?



— Why not all of  
the above?



# MEDICAL MICROTECHNOLOGY INTERNATIONAL SUMMER SCHOOL 2022

**T**his year, future students of the Medical Microtechnology master's programme have the chance to participate in the International Summer School 2022 in and around the city of Sønderborg arranged by the *Syddansk Universitet (SDU)*.

Spend two weeks in Denmark and use the unique opportunity to combine studies on the SDU campus in Sønderborg with cultural experiences and travelling. Be a part of one of the best learning environments in Europe and meet our inspiring professors who will teach you the latest in academics and research. Enjoy and explore the happy spirit of Denmark and take part in a lively programme of social and cultural activities.

# STUDYING AT **STATE-OF-THE-ART FACILITIES**

One of the SDU campuses is located in Sønderborg home to many renowned companies. At the centre of this high-tech development is the SDU with multiple study programmes and extensive research in business, engineering and science. The vibrant student life with cafes, concerts, parks and bike lanes across the city makes it a perfect place to update your skills—and get to know Danish language and culture.





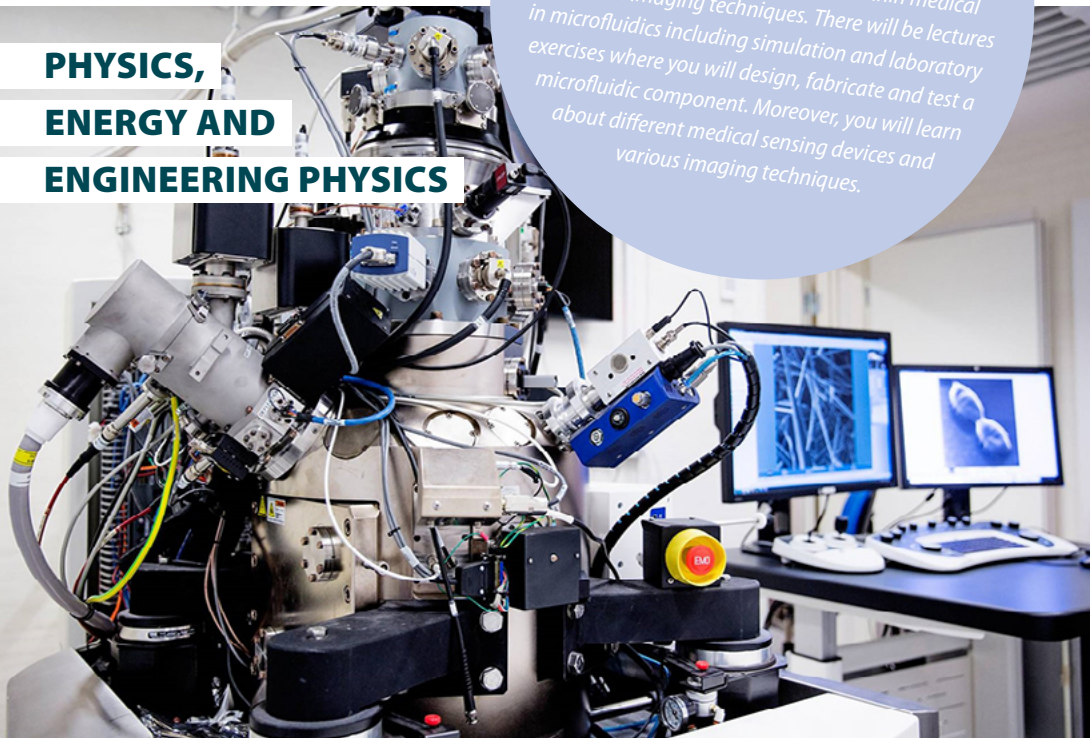
# MEDICAL DEVICES AND IMAGING SUMMER SCHOOL COURSE

Future students of the Medical Microtechnology master's programme can take part in the summer school course consisting of lectures and practical exercises. Students who are in the last part of their bachelor's education can participate and earn up to 5 ECTS.

## MEDICAL DEVICES AND IMAGING COURSE

*In this course, you will gain a theoretical understanding and practical experience within medical devices and imaging techniques. There will be lectures in microfluidics including simulation and laboratory exercises where you will design, fabricate and test a microfluidic component. Moreover, you will learn about different medical sensing devices and various imaging techniques.*

**PHYSICS,  
ENERGY AND  
ENGINEERING PHYSICS**



# YOUR STUDIES

**W**ith small class sizes you will have plenty of interaction with academic staff, who are experts in their field and involved in the latest research.

All summer school courses are open to Danish and international full-time students, exchange students and free movers who will be working together in teams in the intensive 5 ECTS courses. SDU offers all students enrolling in the SDU International Summer School accommodation and visa services.



## DATES AND FEES

Our next summer school will run from

**8–19 AUGUST 2022.**

Exchange students from a partner university pay no tuition.

Ask your international coordinator if your university is a partner university—and if you can be nominated for SDU International Summer School. Guest students pay tuition fees. For more information please refer to <https://www.sdu.dk/da/mmt-summer-school>.

[www.mmt-project.eu](http://www.mmt-project.eu)



**Interreg**  
Deutschland - Danmark



EUROPEAN UNION



**MEDICAL  
MICROTECHNOLOGY**