

MAS / DAS / CAS

# Translational Medicine and Biomedical Entrepreneurship

sitem-insel School for Translational Medicine and Biomedical Entrepreneurship



# sitem-insel School

## Connecting the best minds.

*sitem-insel School offers continuing education programs to specialists in industry, hospitals and academia in the field of translational medicine and biomedical entrepreneurship. We share our expertise in medical device regulatory affairs and provide medical doctors with the necessary skills to take a leading role in the artificial intelligence-driven transformation of medicine.*



### Science meets Entrepreneurship

In an unique collaboration between the University of Bern and sitem-insel AG, sitem-insel School was founded to address unmet professional needs in the medical industry and to elevate the expertise in knowledge transfer from scientific and medical fields, as well as entrepreneurial skills. This partnership, in collaboration with other experts in the field of entrepreneurship, translational medicine and life science, provides you with access to an excellent network.

### Learning Environment

All study programs are conceptualized as extra-occupational programs that can be reconciled with professional work. The program is taught in a blended learning environment and utilises e-learning, peer learning and interactive discussions with experts, on site lectures, workshops and case studies.

Small class sizes allow for large flexibility while at the same time permitting participants to profit from the lecturers expertise.

### Connecting the Best Minds

Our programs are targeted at graduates and professionals who would like to advance their expertise and contribute to the success of the patient care and medical industry. Our highly specialised lecturers and module leaders come from various backgrounds: research and development oriented private companies, scientists from universities, ETHs and FHS, collaborators from regulatory agencies, financial experts and clinicians.

# The study program

*The program offers continuing education to specialists in industry, hospitals and academia in the field of translational medicine and biomedical entrepreneurship, expertise highly needed in both industry and universities. Participants will acquire the know-how to initiate and implement the translation process of products from the stage of development in industrial or research institutions to clinical applications with the goal of their commercialization. The focus is on both diagnostic and therapeutic medical devices and medicinal products.*

### Participants

The program addresses professionals from industry, hospitals and academia that are active in the medical sector and interested in translational medicine and biomedical entrepreneurship.

### Degrees

A Certificate, Diploma or Master of Advanced Studies CAS / DAS / MAS is awarded by the University of Bern upon successful completion of the program. Depending on the certificate selected, different numbers of ECTS points are required.

### CAS Type I Translational Medicine

Three modules of choice from modules 1 to 5 (minimum 13 ECTS) and a certificate thesis (2 ECTS)

### CAS Type II Biomedical Entrepreneurship

Module 6 (13 ECTS) and a certificate thesis (2 ECTS)

### DAS Translational Medicine and Biomedical Entrepreneurship

CAS Type I and CAS Type II programs

### DAS Translational Medicine

Modules 1 to 5 (23 ECTS), electives (3 ECTS), DAS thesis (4 ECTS)

### MAS Translational Medicine and Biomedical Entrepreneurship

All six modules (36 ECTS) and a master thesis (24 ECTS)



# The modules

## Prerequisites

The prerequisites section is organized as e-learning and offers participants the possibility to refresh their knowledge according to their individual needs, covering the basics of biopharmacy, pharmaceutical technologies, medical technologies, OMICS technologies and biostatistics and epidemiology.

## M1 Research and Development

Module 1 revises basic principles related to the discovery and development of medical devices and medicinal products.

## M2 Good Manufacturing Practice and Quality Management

Module 2 focusses on how to ensure that all activities linked with a translational process maintain the desired level of excellence required by regulatory agencies.

## M3 Intellectual Property

Module 3 is dedicated to different types of Intellectual Property and legal aspects that are crucial for the successful commercialization of medical devices and medicinal products.

## M4 Regulatory Affairs

Module 4 focuses on the approval process for bringing innovative products to the market and describes the role of regulatory agencies, public and government agencies and notified bodies along the translational pathway.

## M5 Clinical Trial Design and Performance

Module 5 considers key characteristics of clinical trial design and conduct. Participants learn about the prerequisites for such scientific studies, the importance of understanding the pathophysiology of the underlying diseases, the definition of quantifiable endpoints by clinicians as well as data management and statistics.

## M6 Biomedical Entrepreneurship and Management

Module 6 concentrates on aspects of entrepreneurship with special focus on medicinal products and medical devices including leadership in multidisciplinary teams, project management, business administration and financial aspects that are needed for the successful commercialization of medical devices and medicinal products.

*As a life science researcher who has worked in the field for many years, this program opened the door for me to experience the beauty of translational medicine – from R&D, quality management, intellectual property, regulations and clinical trials to biomedical entrepreneurship. The program has enabled me to gain an overview of the whole cycle of life science. One of the things I enjoy most about the program is the group work, which also provides us with great networking opportunities. This has really helped me to develop my entrepreneurial mindset. For entrepreneurs and future industry leaders, this MAS program is worth taking.*

**Dr. He Liu**  
Life Science Consultant

# Admission

*Applications are accepted throughout the year until 31 August 2021 or until all available places are filled.*

## Requirements

The requirements are those of the University of Bern. Admission *sur Dossier* by the study commission is possible.

## CAS and DAS

Participants should have a MS or higher degree in life sciences, medicine, engineering science, natural sciences or equivalent.

## MAS

Participants should have in addition at least 2 years of professional experience. A proposal for an own translational medicine project on which they will work during their master thesis may be brought on.

## Fees

The fee for the MAS in Translational Medicine and Biomedical Entrepreneurship is CHF 31'500.00, for the DAS programs CHF 23'100.00 and for the CAS programs CHF 12'600.00.

## Additional Information

The study program starts in September 2021 and is designed for a duration of minimum 4 semesters (MAS and DAS) or 3 semesters (CAS), respectively. The course language is English. On-sight classes are held at sitem-insel, the Swiss Institute for Translational and Entrepreneurial Medicine in Bern, Switzerland. E-learning courses may be performed at home. In case of University closures due to Covid-19, planned on-sight lessons will be held in virtual classrooms.

Participants will be registered at the University of Bern. Upon successful registration, the participants will get a campus account. MAS students will receive a Unicard and have access to sports, childcare and counselling facilities offered by the University of Bern.

## Faculty

The faculty includes leading experts from industry, universities, universities of applied sciences, and ETHs as well as specialists from regulatory agencies, financial professionals and clinicians.

# Contact

Whether you are yet to decide, are already set on your choice, or have a general inquiry - we welcome you to contact us anytime. We understand the importance of continuing education and help you to make sure we are your right choice.



## Point of contact

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