Founded in 1811, the University of Oslo is Norway’s largest and oldest institution of higher education. Today the University of Oslo has approximately 30,000 students and 4,600 employees. Four Nobel Prize winners indicate the quality of the research at the University.
INTRODUCTION

We strive hard to be a centre of excellence in entrepreneurship education and therefore take great pride in presenting a technology management program that emphasizes innovation and entrepreneurship.

The two-year Master of Science program is open to candidates with a bachelor degree in any discipline within natural sciences or engineering.

MASTER OF SCIENCE IN INNOVATION AND ENTREPRENEURSHIP

Innovation may be seen as a process which involves discovering or creating a new idea - finding the right and most useful way of solving a problem - creating or allocating resources to develop this idea, producing a product or a service, and successfully taking this to the market to achieve value. The role of the innovator or the entrepreneur is vital in this process.

This two-year Master of Science program facilitates knowledge of how this process works in different industries; through hands-on experience and through the study of cutting edge research. Students from engineering and natural sciences are given a good platform in industrial economics and technology management, which gives them and excellent starting point to pursue a career within technology management or as project leaders of new technology based ventures.
During the program, participants will be involved in developing academic and/or corporate project ideas into technology ventures based on discoveries and new insights from business or science. The program aims to qualify participants as managers in new technology ventures, or as project leaders in existing firms. The program provides several opportunities for working on real projects while studying for a degree.

**PhD Programme**

The centre also offers a three-year PhD programme in Innovation and Entrepreneurship.

**METHODS OF LEARNING**

Instruction is both theoretical and practical. Part of the programme is based on modules where case studies are used; which involves internship abroad (Gründerskolen) and includes supervised case work in Norway and abroad. There is an emphasis on group work, discussion, and independent analysis.

A key aim is to allow students to apply knowledge to real world cases, in interaction with inventors and entrepreneurs, during the course of the programme.

The programme is taught in English.
AIM OF THE PROGRAMME

The aim of the programme is to provide a toolbox of theoretical and practical knowledge in innovation and entrepreneurship, in order to prepare you for:

- Developing innovation and work with new product management in large or small firms
- Creating innovation strategy for large or small firms
- Working with innovation support in public or private organizations, in government and international policy
- Working as an independent consultant
- Conducting doctoral research in innovation and entrepreneurship.

Students can choose from any of the following tracks:

GRÜNDERSKOLEN

The Master of Science in Innovation and Entrepreneurship contains Gründerskolen, an interdisciplinary, national programme in business creation.

You will be exposed to entrepreneurship in practice in an international context.

Choices include:

Gründerskolen combines international entrepreneurship studies with a three month high-tech start-up internship either in San Francisco, Boston, Singapore, Cape Town, and Houston.

For more information on Gründerskolen see www.grunderskolen.no.
THE LIFE SCIENCES TRACK

The University of Oslo has Life Sciences as one of the six strategic cornerstones. The Life Science track is a two-year new venture management programme in cooperation with Oslo Cancer Cluster and Oslo MedTech.

During the course of study, participants will be involved in developing academic or corporate project ideas into new business ventures based on discoveries and new insights from our research partners.

This new venture programme aims to qualify participants for a management position in new ventures, or as leaders of new projects in existing firms. The programme is largely an “on the job” training program with hands-on venture projects. Some of these projects may become viable corporate or academic spin-offs, yet others may be independent start-ups.

OSLO CANCER CLUSTER

Oslo Cancer Cluster has over 50 members, including industrial companies, academic research institutions, health initiatives and support groups in the field of biotechnology with the main focus on cancer.
Oslo University has Environmental Sciences as one of the six strategic cornerstones. The vision is to develop a new generation of green innovators and entrepreneurs that build new companies that meet the environmental challenges of tomorrow.

The Environmental Sciences track encourages science and engineering students to challenge existing solutions and bring to market environmental sound ventures built on green technology.

The Centre for Entrepreneurship co-operates with Oslo Renewable Energy and Environmental Cluster (OREEC) and CIENS (www.CIENS.no).

The Faculty of Mathematics and Natural Sciences also has renewable energy as a major research area.

THE SUBSEA TRACK

In co-operation with Bergen University College, and the affiliated Subsea industry cluster (www.nce.no), we offer a Subsea track in Bergen. The core competence for the companies within the Bergen cluster is Subsea technology. The entire program is delivered in Bergen.

The Subsea technology track includes two three-month internships, one in a regional company, the other takes place in Houston, USA.

Regional Track:
ST SEMESTER
The autumn semester is built around a set of core technology management subjects. During the first semester, you will be acquainted with how to: build and lead high impact technology teams, read and develop financial, marketing as well as business plans. You will also be adept in structuring and negotiating viable and lasting business agreements.

2ND SEMESTER
The second semester is built around main two schedules. It starts with innovation strategy and management modules. Thereafter students typically have a 12 weeks internship in a start-up company. This could be in Houston or Toulouse or students may opt to take the 2nd semester in Norway.

3RD SEMESTER
The third semester is devoted to your specialization, a research design course and a field project. This semester also has a practical innovation management internship.

4TH SEMESTER
The master program concludes with a 17 week thesis within a chosen field of study. Upon the successful accomplishment of the program, the candidate is awarded the degree: Master of Science in Innovation and Entrepreneurship.
ADMISSION AND APPLICATION

How to Apply:

The master's degree is based on a successfully completed bachelor’s degree of at least 3 years’ duration beyond the minimum requirements for matriculation at a Norwegian institution of higher education. In addition applicants may need to document their proficiency in the English language. For more information please see our web pages about how to apply (www.sfe.uio.no).

For general information about admission requirements and admission procedures for international applicants, please see our web pages about admission to the University of Oslo.

An information meeting will be held prior to each application deadline. Please contact the Centre for Entrepreneurship, UiO for the schedule and venue details of these meetings.

ADMISSION CRITERIA

Admission to the programme is based on the following criteria:

Due to the programme’s highly specialised nature only students with a Bachelor’s Degree within Engineering or Natural Sciences may be considered for admission.

• At least 80 ECTS credits of the applicant’s degree must be within Natural science and engineering.

• Applicants must have a minimum grade point average (GPA) of C.

• Previous training and experience within the fields of innovation and entrepreneurship is not required.

Applications from holders of a Bachelor’s Degree earned outside the University of Oslo (in any of the above mentioned disciplines) will be assessed individually by the Faculty of Mathematics and Natural Sciences and the Programme Board.
Miriam Meling,  
24 years old from Stavanger  

Educational background:  
BSc in Physics NTNU

Why did you apply for the programme?  
During my studies in France, a former colleague and I started to plan a project with the goal of elevating the interest in science among high school students. After having prepared a project plan, we convinced NTNU that this was a project the University should take part in. Simultaneously we convinced a production company, that this idea was worth joining in on. During August 2008 we developed the financial plan, which we presented to several institutions and organizations. The efforts resulted in a financed budget on NOK 1.7 mill. Working with this project has made me realize that I have a passion for working with novel ideas and the process of convincing others to join in on them. I applied to the Masters in Innovation and Entrepreneurship because of the interdisciplinary environment and due to my aspiration to work innovatively. A great idea is not necessary a great success. I wanted to participate in the process of making the great ideas come true.

How do you combine your knowledge from your bachelor degree with the MSc?  
When studying mathematics and physics you get into the habit of processing complex and difficult information. After having studied these subjects I would say that I have acquired the necessary tools in order to systematically solve the diverse and interdisciplinary tasks this MSc is presenting.

Where do you want to work?  
I would like to work with start-ups and help them grow into viable and successful businesses, preferably within the field of renewable energy sources.

What is special about this programme?  
This program is very international - you meet people from all over the world. We also spend most of our time working in groups with real time cases, combining theory and practice. The lectures are given by University professors and people working in different industries.

Have you been in contact with any companies and/or other education institutions through the programme?  
We have written an analysis of a start-up company in Stavanger, and some smaller analysis of novel ideas provided by Technology Transfer Offices.

Daniel Leunbach,  
24 years old, Danish/Icelandic  

Educational background:  
BSc in Molecular Biology, University of Bergen

Why did you apply for the programme?  
I am genuinely excited about commercial innovation, more specifically how people create, identify and translate knowledge and ideas into viable business. The Msc program represented an opportunity and the support I needed to learn and acquire the tools necessary to translate this excitement into concrete results.

How do you combine your knowledge from your bachelor degree with the MSc?  
An aspect of my previous studies that I find useful when communicating with various people from diverse backgrounds is the basic understanding of the scientific method and terminology. Combining a scientific approach to understanding the world with a more pragmatic business attitude has been a tough but extremely rewarding challenge that has truly forced me to become a better communicator.

Where do you want to work?  
As businesses becomes exceedingly more knowledge-based I believe that the demand for expertise in the field of science-based innovation will continue to increase. I aim to be an asset in the exciting interface between new ideas and business creation.

What is special about this programme?  
The interdisciplinary nature - it has given me a broad insight into different aspects of setting up and running a successful business. Not only has the unique interdisciplinary structure of the program exposed me to a lot of interesting, skilled people, their ideas and perspectives, it has also pushed me to critically reevaluate many of my own assumptions.

Have you been in contact with any companies and/or other education institutions through the programme? I was lucky to spend my first semester at Göteborg International Bioscience Business School, GIBBS, where I got to work on projects with a lot of highly motivated individuals and I gained a deeper understanding of product development processes in the biotech and pharmaceutical industry. I have also had the privilege of continuously applying my knowledge to practical situations, for example when advising the small Stavanger-based technology start-up Davo AS on business strategy. Currently, we are also working closely with the local technology transfer offices Birkeland and Medinnova, essentially learning how to screen and assess the feasibility of real-life ‘hands-on’ venture projects. If you are highly motivated, if you have the desire and the need to try out new things and build something, then I strongly recommend that you do as I did when I was stuck in the lab - apply for this programme.