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Preface

Welcome to the Norwegian University of Science and Technology (NTNU).

Creative, Constructive, Critical. These are the keywords in our strategy. As the name states, the Norwegian University of Science and Technology (NTNU), is a centre for technological education and research in Norway, with a solid foundation in the natural sciences. This tradition is interwoven with broadly based expertise in the classical university disciplines of the humanities, medicine and the social sciences. At the same time, NTNU offers the widest range of education in subjects such as music, the visual arts and architecture, of all the universities in Norway.

At NTNU we strive to encourage soaring imagination and restless curiosity. Our ambition is to promote a creative interplay between all forms of human intellectual activities, the arts, the natural and social sciences, and technology.

A welcome to NTNU is a welcome to the city of Trondheim, in central Norway. The city of Trondheim, founded in 997, holds a special place in Norwegian history and culture. It was the first capital of Norway, and is still the city where new kings receive their ceremonial blessing.

Situated on the Trondheimsfjord, it is surrounded by forested hills, with the River Nidelva winding through the city. Just a few kilometres to the west of the city centre you are well into outdoor life and Bymarka. Here you can bring the family for walks on well-prepared paths in the summer and enjoy superb trails for cross-country skiing in the winter. NTNU is one of the city's largest employers and property owners. The whole city reflects the activities of its students and staff.

This brochure provides useful information about what NTNU can offer you. We welcome your feedback so that we can make the next edition even better.

1. Why NTNU?

High quality education

NTNU offers high-quality, internationally-recognized degree programmes in engineering, the arts, social sciences natural sciences, medicine and the fine arts. Approximately 85% of all Norwegian graduate-level engineers hold a degree from NTNU. NTNU is at the forefront in research in marine technology, petroleum engineering, materials technology, and communications systems. There are approximately 20 000 students at NTNU, including approximately 1000 international students.

Excellent laboratories and research opportunities

Close cooperation with and proximity to one of Europe's largest independent research foundations, SINTEF, affords students easy access to laboratories equipped with advanced equipment and ensures that NTNU continues to be a dynamic educational and research community.



Trondheim City Centre

Best student town

NTNU is located in Trondheim, which was voted Norway's best student town. Some reasons for this vote of confidence are:

- one in six inhabitants is a student
- a vibrant Student Union offering concerts, dances, theatre, debates and more
- the biennial International Student Festival (ISFIT)
- the three-week long biennial Student Festival (UKA)
- NTNUI, Norway's largest sports club
- the Student Lodge, and over 20 cabins located all over central Norway, from the coast to high up in the mountains
- student clubs and societies spanning the entire range of academic disciplines and leisure activities

Excellent, reasonably priced student housing

NTNU received the highest score in a Dutch 2002/03 International Students Housing survey

Beautiful country

The natural beauty of Norway's fjords, mountains and coastline surround Trondheim and afford limitless opportunities for year round enjoyment.

Manageable city

The population of Trondheim is approximately 160 000 thus making it easy for new students to get the "lay of the land".

A cultural experience

Norwegians have their roots in an old peasant culture. In the course of the last 50 years many have moved off the land and today the majority of Norwegians live in towns. Compared to most other countries, however, there are no really big cities in Norway.

Moderate climate

Trondheim's climate, moderated by the warming effect of the Gulf Stream, allows residents to enjoy four distinct seasons and the full spectrum of outdoor activities.



"Bakklandet", Trondheim

One-stop shop for international students

The staff at NTNU's Office of International Relations located in the International House can offer students "one-stop shop" for their transition into student life at NTNU.

Close to Europe

With the discounts available to all students in Norway, there are excellent opportunities to explore the rest of Scandinavia and Europe.

2. Norway – NTNU - Trondheim



Norway

Norway, a rich industrial democracy with a population of approximately 4.4 million, is situated on the western side of the Scandinavian peninsula. The Gulf Stream flows along its coast giving Norway a milder climate than in most other countries at the same latitude. Coastal regions in Norway have relatively mild winters and cool summers, while the inland regions have cold winters and warm summers. Norway's scenery is a mixture of fertile land, bare mountains, narrow fjords and a long open coastline. Though the landscape may appear wild, the nature is quite friendly.

The Norwegian culture is recognized through the folk costumes like the “bunad” and folk instruments like the “Hardanger-fiddle”, through celebrated classic artists as Ibsen, Grieg, Undset and Munch, through modern artist like Nerdrum and Vigeland, all the way up to no. 1 hit artists like A-HA and Røyksopp.

With a profound interest in exploration, Norway has many internationally recognised scientists like Nansen, Amundsen and Heyerdahl, Norwegians have also demonstrated their mastery of the elements through technology. With its hydroelectric power, natural gas and oil, Norway is one of the world's richest countries in terms of energy per capita. The mountain torrents that turn the huge turbines and provide Norway with domestic electricity have led to major investments in the electrochemical and electrometallurgical industries. The petrochemical industry operates on the cutting edge of technology

NTNU

The Norwegian University of Science and Technology (NTNU) in Trondheim is the product of an 800-year tradition of excellence in education that goes back to the first church school established in Norway in the year 1210. Since that school opened its doors to a select few, university life in Trondheim has undergone many changes. NTNU is now predecessor, the University of Trondheim, consisted of 15 faculties, which have now been organized as an efficient group of 7 faculties. In addition there is the Museum of Natural History and Archaeology, NTNU Library, the Faculty of Medicine (one of the 7 faculties) and six autonomous centres for advanced work in education, environmental science, technology, women's studies, medieval history and genetics. The Trondheim Academy of Fine Arts and the Trondheim Music Conservatory are also integral parts of the new university profile. As a result of this consolidation, NTNU, with some 20 000 students and a professional teaching and administrative staff of nearly 3300, is now the second-largest university in Norway. NTNU continues to evolve as is evidenced by new buildings, expanding cooperation with universities abroad, and active participation in the European Union's student exchange programmes, exchanges with developing countries and joint R&D ventures with industry.



Main Administration Building, NTNU

All of this means that NTNU is a dynamic educational and research community. With its broad academic spectrum, NTNU is able to adopt a comprehensive approach to the challenges we face in the new millennium while continuing to build on Norway's reputation as a technological and cultural centre.

NTNU places great importance on developing strong links with universities and research institutions abroad. At any given time there are approximately 1000 international students at NTNU. These include both those on degree programmes and exchange students. Though most courses are given in Norwegian, there are many courses taught in English and numerous textbooks on the curricula are in English. Exams can often be taken in English. All of our International Master's Programmes are taught in English.

NTNU cooperates closely with SINTEF (The Foundation for Scientific and Industrial Research at the Norwegian Institute of Technology) and ALLFORSK (The Arts and Science Research Foundation). As a result of sharing staff, laboratories and equipment with these organizations, NTNU's students reap the benefits of this cooperation.

In short, students at NTNU have access to a research and teaching environment that is unrivalled in Norway and which has been a Norwegian model of excellence in education for over eight centuries.

NTNU - facts and figures

NTNU was established in 1996 as a further development of the University of Trondheim, (UNiT). UNiT was in its time, established as a result of merger between The Norwegian Institute of Technology (NTH), The College of Arts and Sciences and the Museum of Natural History and Archaeology.

NTNU offers professional degrees, university studies, interdisciplinary study programmes and masters degrees in English.

NTNU has 7 faculties and 53 departments.

There are 20 000 students at NTNU.

There are approximately 1000 students from abroad.

On average, 2250 professional, master's-level or doctoral degrees are awarded each year.

There are about 3300 members of staff. Over half of the staff are in academic or scientific positions.

NTNU participates in the European Union's framework programmes, Socrates and Leonardo da Vinci; also in the Nordplus programme, NORAD programme, and the Action Programme for Eastern Europe, the Quota Programme for students from developing countries, Central and Eastern Europe.

NTNU has sponsorship and cooperation agreements with Norwegian and international business and industry.

Trondheim

With a population of approximately 150,000, Trondheim is Norway's third largest city. The fact that one out of every six people is a student makes Trondheim a young and vibrant city. The Student Union (Studentersamfundet), the biennial student festival, the innumerable academic societies and sports clubs, and the Students' Lodge and 22 cabins situated all over central Norway from the coast to high up in the mountains, all contribute to keeping this reputation intact.

When you walk along the streets of Trondheim, you can feel its history that stretches back to 997 AD. At the same time you feel the energy that keeps the city at the forefront of modern society. Ideally located on the coast and nestled at the foot of Norway's vast inland mountain chain, Trondheim offers a myriad of recreational opportunities which include skiing and snowboarding in winter and sailing, hiking, golfing, swimming and fishing in the summer.



Part of the waterfront in Trondheim with the Nidaros Cathedral in the background

3. International House



International House, NTNU

The staff at the Office of International Relations at NTNU serves students and staff at NTNU as well as incoming international students. We provide guidance and counselling to those that require our services, we try to make excellence the rule. Below is an overview of those currently working in the Office of International Relations with a list of their responsibilities. The coordinators of the different programmes/exchanges are responsible for several tasks related to the particular programme/exchange:

- advising students who apply for admission to NTNU
- advising students at NTNU who want to study abroad
- implementing new agreements and maintaining current ones
- acting as the liaison between NTNU and outside agencies

Should you need our help, check the list below, see who has the responsibility for handling the task you need help with, and contact that person.

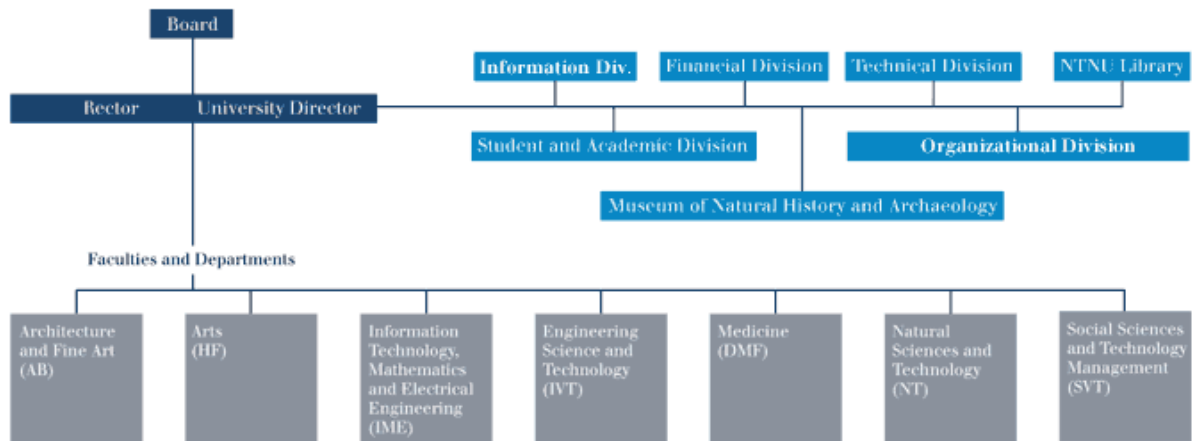
Hilde Skeie Director Phone: 9 03 55 Email: hilde.skeie@adm.ntnu.no	Administrative Management
Gry Eva Sinkaberg Alterskjær Higher Executive Officer Phone: 9 82 45 Email: gry.alterskjar@adm.ntnu.no	IFUS Programme Coordinator Norwegian Courses for Foreigners Recognition of international education and international degrees
Ragnhild Ekren Brakstad Senior Executive Officer Phone: 9 52 77 Email: ragnhild.brakstad@adm.ntnu.no	Quota Programme Coordinator Collaboration with institutions in developing countries Admissions of Quota Programme students from developing countries to International Masters Programmes and PhD programmes
Turid Bræk Executive Officer Phone: 9 32 52 Email: turid.brak@adm.ntnu.no	Social Counsellor
Stewart Clark Adviser Phone: 9 52 45 Email: stewart.clark@adm.ntnu.no	English language adviser for NTNU Shell Technology Enterprise Programme
Guri Eggan Higher Executive Officer Phone: 9 89 62 Email: guri.eggan@adm.ntnu.no	Coordinator, NUFU programme NUFU R&D collaboration

Kari Enge Administrative Assistant Phone: 9 57 00 Email: kari.enge@adm.ntnu.no	Administrative support – exchange students General office assistance and support
Mette Grønnesby Secretary Phone: 9 52 38 Email: mette.gronnesby@adm.ntnu.no	General office assistance and support
Torunn Haugrønning Executive Officer Phone: 9 51 80 Email: torunn.haugronning@adm.ntnu.no	Financial accounts Industrial Sponsor Agreement (Hydro Travel Stipend)
Gro Synnøve Johnsen Executive Officer Phone: 9 32 52 Email: gro.johnsen@adm.ntnu.no	Social Counsellor
Bjørn Uno Kolstad Senior Executive Officer Phone: 9 52 42 Email: bjorn.kolstad@adm.ntnu.no	NORDPLUS Coordinator Coordinator exchanges/admission from Central and Eastern Europe, Australia, South East Asia and Latin America
Rita Kumar Higher Executive Officer Phone: 9 89 61 Email: rita.kumar@adm.ntnu.no	NORAD Programme coordinator Admission of NORAD fellows from developing countries to International Masters Programmes

Dale Mary Licata Higher Executive Officer Phone: 9 78 79 Email: dale.licata@adm.ntnu.no	Industrial sponsor agreement (DNV) USA/Canada/Japan/Korea Coordinator
Oddrun Walstad Maaø Administrative Assistant Phone: 9 57 00 Email: oddrun.maao@adm.ntnu.no	General advice to students
Nina Moxnes Higher Executive Officer Phone: 9 52 39 Email: nina.moxnes@adm.ntnu.no	Coordinator Leonardo da Vinci programme EU/Socrates University Exchange
Are Skjelstad Higher Executive Officer Phone: 5 11 46 Email: are.skjelstad@adm.ntnu.no	Information Consultant Web-editor
Hans-Richard Sliwka Higher Executive Officer Phone: 9 56 00 Email: hrs@nvg.ntnu.no	Admissions, Doctoral programmes Practical arrangements for incoming guest research scientists
Berit Sterten Executive Officer Phone: 9 89 60 Email: berit.sterten@adm.ntnu.no	General office assistance and support Practical arrangements for International Master's programme students

4. University Management

Organization Chart



Faculty of Architecture and Fine Art

Department of Fine Art - The Trondheim Academy of Fine Art
Department of Architectural Design, Form and Colour Studies
Department of Architectural Design and Management
Department of Architectural Design, History and Technology
Department of Urban Design and Planning

Faculty of Engineering Science and Technology

Department of Civil and Transport Engineering
Department of Structural Engineering
Department of Energy and Process Engineering
Department of Marine Technology
Department of Hydraulic and Environmental Engineering
Department of Geology and Mineral Resources Engineering
Department of Petroleum Engineering and Applied Geophysics
Department of Machine Design and Materials Technology
Department of Production and Quality Engineering
Department of Product Design

Faculty of Arts

Department of Music
Department of Language and Communication Studies
Department of Modern Foreign Languages
Department of History and Classical Studies
Department of Philosophy
Department of Art and Media Studies
Department of Scandinavian Studies and Comparative Literature
Department of Religious Studies
Department of Interdisciplinary Cultural Studies

Faculty of Natural Sciences and Technology

Department of Biotechnology
Department of Biology
Department of Chemistry
Department of Chemical Engineering
Department of Materials Technology
Department of Physics

Faculty of Information Technology, Mathematics and Electrical Engineering

Department of Computer and Information Science
Department of Mathematical Sciences
Department of Electrical Power Engineering
Department of Physical Electronics
Department of Engineering Cybernetics
Department of Telematics
Department of Telecommunications

Faculty of Medicine

Department of Neuroscience
Department of Public Health and General Practice
Department of Laboratory Medicine, Children's and Women's Health
Department of Circulation and Medical Imaging
Department of Cancer Research and Molecular Medicine

Faculty of Social Sciences and Technology Management

Department of Geography
Sport Sciences Programme
Department of Economics
Department of Sociology and Political Science
Department of Industrial Economics and Technology Management
Department of Education

Programme for Teacher Education
Department of Social Work and Health Science
Department of Psychology
Department of Social Anthropology
Norwegian Centre for Child Research (NOSEB)

Museum of Natural History and Archaeology

Section of Archaeology and Cultural History
Section of Natural History
Section of External Services
Section of Archaeometry

NTNU Library



Library in the Natural Science Building

5. Academic Year

The academic year at NTNU is divided into two semesters: Autumn (August to December) and spring (January to June). Depending on the subject, the exam period is from November to January.

Some courses offer students the possibility of taking their exams in English. In all cases, students should contact the Exam Office (eksamenskontor) to see if this option is offered for the course in question.

The choice of teaching methods (lectures, seminars, problem-based, paper and/or thesis writing, laboratory training, etc.) and the number of teaching hours per week vary according to subject and course level. NTNU's course catalogues (studiehåndbok) contain detailed information on the curricula and subject/discipline design, as well as course descriptions and exam regulations. These are in Norwegian, but used alongside with the European Credit Transfer System (ECTS catalogue) the subject codes should be possible to decipher.

All candidates (except two-year master's programme students) are required to successfully complete Examen Philosophicum (Ex. Phil.), which is a 2-module course (7.5 credits each) running over 1 semester. This course gives an introduction to a number of elements such as the history of philosophy, the history of science, scientific theory, logic and deduction, and ethics, as well as touching on different scientific and societal issues.

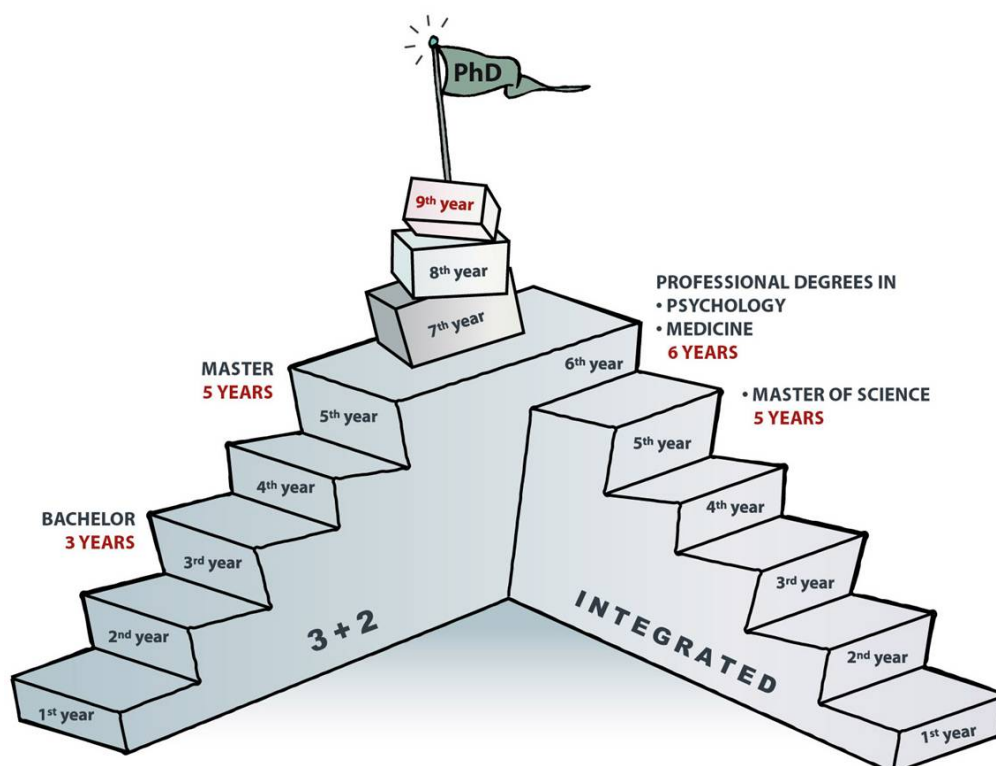
Bachelor's students in the Social Sciences and the Arts are also required to complete Examen facultatum (Ex. Fac.). This consists of two courses (7.5 credits each) chosen from a series of courses.

Students may take up to 30 credits before the requirement for Ex. Phil. and Ex. Fac. must be met. However, it is advisable to take Ex. Phil. and Ex. Fac. in the first semester or very early in the degree programme. Students who have taken a similar course at another university may apply for an exemption from the Ex. Phil. and Ex. Fac. requirement.

Grades at NTNU are awarded according to the same scale as the European Credit Transfer System (ECTS) or as pass/fail. The ECTS scale consists of letter grades from A to F where A is the best grade and E the lowest passing grade.

Students who wish to improve their grades have the option of retaking an exam. (This does not apply to the International Master's Programmes.) Details about the current regulations concerning the retaking of exams are available from the Student Service Office at NTNU.

6. Degree Programmes and Structure



Grading system

NTNU began using the letter grading system for all examinations and most assessments on 1 September 2001. This replaced the numerical marking system.

Grade	Definition	General qualitative description of the evaluation criteria	Description of ranking criteria
A	Excellent	Excellent performance that makes the candidate outstanding. Shows a substantial degree of independent thinking.	Well-above average
B	Very good	Very good performance well above average. Shows some degree of independent thinking.	Above average
C	Good	Average performance that is adequate in most areas.	Average
D	Satisfactory	Below average performance, the candidate has clear gaps in knowledge.	Below average
E	Sufficient	Performance that satisfies the minimum requirements, but no more.	Far below average
F	Fail	Performance that does not satisfy the minimum requirements.	Fail

In the assessment of some subjects, the grade of Passed/Failed may be used. Required assignments that are not subject to any evaluation are assessed by the grade of Completed/Not completed (for example, field work).

Credit system

The credit system now used at NTNU is based upon a yearly workload of 60 credits, which corresponds to European Credit Transfer System credits (ECTS).

Bachelor's degrees

The bachelor's degree is the lower Norwegian university degree. In English, a bachelor's degree in the arts, social sciences, music and fine arts is called Bachelor of Arts (abbreviated BA). In the natural sciences the equivalent degree is called Bachelor of Science (abbreviated BSc) in English. These bachelor's degrees comprise 180 credits and are normally completed in 3 years of full-time study. However, there is also a 4-year bachelor's degree in music performance studies which is worth 240 credits. All bachelor's degrees at NTNU are organized in programmes of study, where all students draw up individual education plans with NTNU.

Master's degrees

The master's degree is the higher Norwegian university degree at graduate level. There are two types of master's degrees at NTNU.

- 2-year master's with 120 credits that builds on a bachelor's degree. In the autumn semester 2003, about 50 of these master's degrees are taught in Norwegian and 12 are taught in English. In the arts, social sciences, music and fine arts this is called Master of Arts (abbreviated MA) in English. There is also a Master of Philosophy degree (abbreviated MPhil). In the natural sciences the equivalent degree is called Master of Science (abbreviated MSc) in English. In technology, students with a bachelor's degree from Norwegian colleges or equivalent institutions abroad, enter a 2-year MSc programme.
- 5-year integrated master's. This requires 300 credits and is based on full-time study from matriculation. There is both a Master of Arts degree (abbreviated MA) that combines language disciplines, social sciences, and pedagogical training and a Master of Science degree (abbreviated MSc) in the natural sciences, technology and architecture. The Norwegian degrees Master i teknologi/Master i Arkitektur (previously called sivilingeniør/sivilarkitekt) are translated as Master of Science. The field of specialization is often added. Example: Master of Science in Marine Technology (abbreviated MSc in Marine Technology).

Professional degrees

NTNU has two professional degrees: *candidatus medicinae* (abbreviated to *cand. med.*) and *candidatus psychologiae* (abbreviated to *cand. psychol.*). There are no official English translations of the names of these degrees, but one can refer to a degree in medicine or psychology at NTNU, if required. Both of these are 6-year degrees.

Note:

Note on NTNU's integrated degrees in engineering and architecture

For studies in engineering and architecture, NTNU's integrated 5-year degrees closely correspond to Anglo-American master's degrees in their length, intensity and associated thesis requirements. There is no equivalent to Anglo-American undergraduate degrees, such as Bachelor of Science (BSc/B.S.) in engineering or architecture at NTNU. Thus engineering/architecture students from NTNU who want to apply to universities abroad as an exchange student are regarded by NTNU to be undergraduate students in their 1st, 2nd and 3rd years and graduate students in their 4th and 5th years.

More details about degree programmes at NTNU in English are available on the web pages at the Office of International Relations, see www.ntnu.no/intersek/intstud/academic.html

Note:

NTNU's organization allows for interdisciplinary collaboration and thus unique subject combinations. In addition to the degree programmes offered by the various faculties, there are several interdepartmental degree programmes.



For additional information about the degree programmes, please consult the course catalogues for the different disciplines.

7. Research

NTNU is a national university with a focus on technology and the natural sciences, as well as a solid standing in the humanities and the social sciences. Our technological tradition is interwoven with broadly based expertise in the classical university disciplines of the humanities, medicine and the social sciences, as well as music, the visual arts and architecture, of all the universities in Norway.

NTNU's five strategic areas are:

- Energy and the Environment
- Medical Technology
- Materials Technology
- Marine and Maritime Technology
- Information and Communications Technology

NTNU's three centres of excellence:

- Centre for Quantifiable Quality of Service in Communication Systems
- Centre for the Biology of Memory
- Centre for Ships and Ocean Structures

NTNU has more than 50 laboratories. These include:

- Hydrodynamic Laboratories (Towing Tank and the Ocean Basin Laboratory)
- Materials and Structural Laboratories
- Large Scale Facility for Measuring, Monitoring and Modelling of Marine Systems
- Multimedia Laboratory
- Black Box Theatre Studio
- ICT and Learning Laboratory
- Ultrasound Laboratory

In fields of research NTNU collaborates with research partners, in terms of staff, laboratories and equipment. Two of the main research partners are:

SINTEF

– the largest independent research foundation in Scandinavia.

ALLFORSK

– research foundation within the humanities and social sciences

NTNU's five strategic areas

1. Energy and the Environment



Norway is rich in natural gas resources. Natural gas is found in the Earth's crust and is a result of the biological decomposition of organic materials. Natural gas can be used in all the energy needs you can think of: heating, fuel, drying of food, melting of metals and glass, and even food for people and animals. At NTNU, researchers work on CO₂ capture following the combustion of natural gas. The aim is finding means of preventing CO₂ from being released to the atmosphere. Carbon dioxide capture and underground storage can turn out to be ways to reduce the increased emissions of greenhouse gases in a growing world economy.

NTNU hosts some of the world's top researchers in applying solar energy to buildings.

Today we do not think of one energy resource when designing the energy system in buildings. Different buildings have different needs. The main focus is to put together the optimal technologies for the building.



2. Medical Technology

High quality intra-operative 3D ultrasound can represent the solution in future neurosurgery. Surgical tools can navigate with high precision based on images representing the patient's anatomy.

Researchers at NTNU are also working on developing MR (magnetic resonance) as a diagnostic method. EU Directives demanding a reduction in X-ray radiation have resulted in stimulating the expansion of MR and ultrasound methods.

MR and ultrasound complement each other when it comes to receiving as much information as possible about the patient's condition. Of equal importance is the general care for the patient. MR and ultrasound technology mean fewer invasive operations and examinations.

The step from examining one gene to comparing tens of thousands of genes is of course a result of new computer technologies. DNA micro-array means that we add fluorescence to a large number of genes in a very small sample. The light intensity of the genes is then transferred to an artificial colour image. This technology tells how fast the disease is developing and which treatment will be optimal.

3. Materials



Superconductors can conduct electrical current with no loss of efficiency. This means that electricity can run forever in a closed circuit. The application of these materials can revolutionize electricity supply and energy storage in the future. However, superconductivity is just one of a wide range of interesting and fascinating properties that are characteristic of functional oxides. Functional oxides belong to a group called functional materials where, for example, electrical, optical, magnetic and catalytic properties can be utilized. The different properties of functional oxides can be tailored to make them central for important technologies, for example in communications technology, components for computer systems, sensor technology and medical technology. The energy technologies based on these membranes will significantly reduce emissions of CO₂ and NO_x.

Today a car contains 25 kg of aluminium. In the next 20 years, this figure can be ten times higher. There are many weighty arguments behind this statement. First, aluminium does not pollute; second, aluminium is a light metal - the car will be lighter and fuel consumption will be reduced. Third, the car will be more robust and safer. And also very important: If you have produced the aluminium, you will need only five to ten per cent of the original energy consumption to recycle it.



4. Marine and Maritime Technology

Experts from many disciplines are developing methods for harvesting biological resources for use as fish feed in aquaculture, without disturbing the ecological balance of the ocean.

On today's dinner table, only one per cent of the food energy and only five per cent of the proteins originates from the sea. As it is likely that the population of the Earth will reach 10 billion in 2050, we have to start thinking about cultivating the sea.

At NTNU large constructions at sea, such as ships, oil platforms, pipelines, floating bridges and sea farms, are studied in relation to how they tackle waves, ocean currents and wind - as well as man-made hazards.

The opportunities for innovative sea constructions with improved function and safety emerge by cross-disciplinary cooperation. For example, joint work with material scientists has been important in developing new high speed light craft aluminium ships. The aluminium makes it possible to combine high speed with low energy consumption.

By combining the disciplines of hydrodynamics, structural engineering and cybernetics, new possibilities emerge for developing innovative design and operation for transport, offshore petroleum production and sea farming.

5. Information and Communications Technology



NTNU has its own laboratory for Virtual Reality (VR), which gives NTNU and its partners the possibility to work with virtual reality in their teaching and research in all relevant fields.

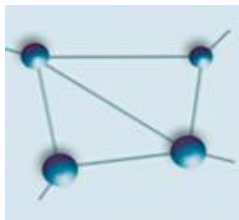
A huge amount of technological services and products on a variety of technological platforms, like MPEG, WAP, GPRS, UMTS and Palm, are being developed in industry, business and research. Researchers at NTNU are teaching the different systems to communicate.

The target is that a file, for example music files or a news item from BBC could be located in only one place. If you need this file, the server will "see" if you call from a mobile phone, computer or a Palm, and the server will then optimize the delivery of the file for the system you use.

E-learning is one of the fastest growing areas of ICT in the world. Until recently, the Internet was understood as a learning possibility primarily for external students. Today, the Internet is also widely used as a supplement to ordinary teaching on campus.

As a part of our efforts, NTNU is introducing a Learning Management System for e-learning. Researchers are studying both the technical product itself, and the organizational processes regarding the implementation of this system.

NTNU's three Centres of Excellence:



Centre for Quantifiable Quality of Service in Communication Systems

The Centre will deal with Quality of Service (QoS) issues in heterogeneous, multilayered networks where packet switching technology is employed. Services mean traditional teleservices along with multimedia, messaging, web and information services, as well as location and content aware services. The Centre will work within the following areas: multimedia signal processing, dependability, traffic and security as applied to multiparty communication.

Centre for Ships and Ocean Structures



The vision of the Centre is to create a world leader for developing fundamental knowledge for the design and operation of future ships and ocean structures. Researchers are working on reaching this target by integrating theoretical and experimental research in marine hydrodynamics, structural mechanics and automatic control.



Centre for the Biology of Memory

The scientific goal of the Centre is to understand the biological processes responsible for memory. This ambitious aim requires a multidisciplinary and multilevel approach which only can be accomplished by close collaboration between experts in each discipline. The Centre brings together internationally leading neuroscientists. These are scientists who share an interest in memory and contribute complementary expertise. The activities of the Centre will include theoretical work, experiments, and training of students, all centred on the main scientific goal. This is to use a combination of behavioural and neurophysiologic methods to determine how neuronal ensembles in the hippocampus and neocortex give rise to specific memory operations such as encoding, storage, consolidation and retrieval.

8. Library

NTNU Library is the oldest academic library in Norway and its origin can be traced back to 1768. Today it is the university library at the Norwegian University of Science and Technology (NTNU). The main library is located in the administration building on the Gløshaugen Campus, with departmental libraries spread through NTNU.

NTNU Library has an important role to play in research, education and dissemination activities at the university. The library also provides a range of courses as well as information search and document supply services for business and industry.

NTNU Library offers electronic library services 24-hours a day. There is systematic expansion here and more and more electronic services are becoming available.

Library system

BIBSYS is a shared library system for all Norwegian university libraries, the National Library and a number of college and research libraries. BIBSYS enables students and researchers to search the collection of NTNU Library (most books, reports and theses published before 1980 are not registered).

BIBSYS also enables you to order loans and copies directly from your web browser. You will need your BIBSYS patron ID and bibliographic information such as publication, author, title and volume.

The library website makes literature easily accessible to NTNU's faculties, staff and students.

www.ub.ntnu.no

Note:

The NTNU library consists of:

- 10 libraries, a section for development and coordination and a common administration
- 75 000 shelf metres of books and journals
- 360 000 photographs, 30 000 maps, 27 000 music scores etc.
- 20 000 electronic books, 6000 electronic journals and access to 1200 international databases of references
- 160 staff
- Budget: NOK 115 million

9. Admission

The admission and language requirements, like the application procedures, vary depending on which category of student you are. At NTNU, we have defined seven categories of students. These categories are:

1. Degree-seeking students (undergraduate and graduate)
2. PhD candidates
3. International Master's Programme students
4. Exchange students
5. Visiting/non-degree students
6. NUFU students
7. Student at the Trondheim Academy of Fine Art and NTNU's Department of Music, Music Performance Studies

The general admission and language requirements for the various categories of students are given below. All students must be able to document or declare a minimum of NOK 80 000 (EUR 10 000 / USD 11 000) per year in funds.

Category 1: Degree-seeking Students

This category includes students who would like to obtain an undergraduate or graduate degree at NTNU.

This category has two sub-categories:

Category 1a: Degree-seeking students who meet the Norwegian language requirements

Category 1b: Degree-seeking students who do not meet the Norwegian language requirements

To meet the Norwegian language requirements, non-Norwegian students* must either pass the level III exam with a grade of D or better, or pass the written Bergen Norwegian Language Test with a score of at least 450 points.



International students in Trondheim

* Danish, Finnish, Icelandic, or Swedish applicants who have graduated from upper secondary school (*videregående skole*) in Denmark, Finland, Iceland or Sweden do not need to document their competence in Norwegian.

The Bergen test is given three times a year and currently costs NOK 1000. For more information, please contact:

Folkeuniversitet - Norsk språktest
Christian Krohgsgate 34, 0186 Oslo

Phone: 22 98 88 22

Fax: 22 98 88 01

E-mail: norsk.spraktest@fu.no

Home page: www.fu.no (Click on Norsk Språktest and then English, if you need the text in English)

Application procedures are quite different for students who do and who do not meet the Norwegian language requirements. Please see below.

Category 1a: Degree-seeking students who meet the Norwegian language requirements

Except for persons whose mother tongue is English, students in this category must submit documentation that they meet the English language requirements. A description of the ways to meet the English language requirements as well as exemptions from the requirement is given in Appendix 1.



Dragvoll Campus

Application procedures:

The centralized application centre called UCAS, Universities and Colleges Admission Service (Samordnet opptak), processes most applications to undergraduate studies at Norwegian public institutions of higher education. A board appointed by the Ministry of Education and Research controls UCAS, which is organized as a unit at the

University of Oslo. In other words, all applications for admission must be sent to UCAS and NOT directly to NTNU. Applicants must meet the basic requirement for admission to Norwegian universities and the language requirements. It is only possible to apply once a year. The application deadline is 1 March for students with education from abroad. For those applying on the basis of education from a Nordic country, the application deadline is 15 April.

In general, admission to NTNU, especially in the fields of engineering, architecture, and medicine is highly competitive. Excellent grades are an

essential prerequisite to securing a place. For these fields of study there are also special requirements in mathematics and physics.

Applications are available directly from UCAS or from NTNU. The application process involves two steps:

Completing the preliminary application form indicating, among other things, which courses of study you are interested in and at which university/college. **DO NOT SEND TRANSCRIPTS** or other enclosures with this application form.

Deadline for students educated outside Scandinavia: 1 March.

Students who fulfil admission requirements will receive the final application form (omslagsark) from UCAS by 1 June (if you have not received this form by 1 June, contact UCAS at the latest by 10 June). You then return this form, along with your transcripts and letters of recommendation to NTNU. Deadline for submission: 1 July.

Applicants will be notified by 25 July. Application via UCAS is based on the assumption that the student is currently residing in Norway. For students residing abroad the late notification date may cause a delay in obtaining a student residence permit.

In general the application deadline is 1 June and 15 November for the autumn and spring semesters, respectively. However, certain departments/programmes have different deadlines, so it is best to check the web site mentioned.

Category 1b: Degree-seeking students who do not meet the Norwegian language requirements

Except for persons whose mother tongue is English, students in this category must submit documentation that they meet the English language requirements. How to do this and which countries are exempt from doing so are described in Appendix 1.

Application procedures:

International students who wish to obtain a degree, and who do not meet the Norwegian language requirements must first successfully (i.e. with a grade of D or better) complete the ten-month Introductory Programme in Norwegian Language for International Students (IFUS).

IFUS aims at providing students with a communicative competence in Norwegian. Students will be given the language skills needed to master written and spoken Norwegian in academic as well as everyday communication situations. An introduction to Norwegian culture and society as well as the socio-linguistic aspects are therefore integrated in the course. In the first part of the course the lecturer will systematically present the basics of Norwegian grammar, syntax and phonetics. At a later stage emphasis will be placed on

expanding students' vocabulary and knowledge of idiomatic expressions. Students will also carry out listening and pronunciation exercises in the language laboratory where modern audio-equipment is readily available. There are at most 20 students admitted to the IFUS programme each year. The places are reserved for candidates with superior qualifications and who can document sufficient funding. Students who wish to apply for this programme you should document a minimum of NOK 80 000 (EUR 10 000 / USD 11 000) per year in funds.

Students who successfully complete IFUS will be admitted to NTNU. IFUS is worth 30 credits, starts in August and ends in mid-May the following year. The course lasts approximately 28 weeks with 12 hours of class instruction and 1 hour of conversation per week.

Students applying for the IFUS programme must first submit a preliminary application form available on-line (<http://www.ntnu.no/intersek/Ifus>) or by contacting the Office of International Relations at NTNU.

DO NOT SEND TRANSCRIPTS or other enclosures with the preliminary application. The application deadline for the preliminary application is 1 December for the following year. Students who meet the minimum criteria for admission and financial requirements will be sent a final application form. The deadline for submission of the final application form and accompanying transcripts and enclosures is 1 February.

Category 2: PhD candidates

PhD programmes at NTNU take three years of full-time studies. The structure of the different doctoral programmes varies. Some of the programmes, like the PhD programme in Engineering and Architecture, include taught courses and a research period, where the candidate has to write and defend a thesis in public. Other

programmes, like the PhD programme in Arts/ Humanities, do not consist of taught courses, but concentrate more on research leading to the doctoral thesis and its defence.



Natural Science Building, Gløshaugen Campus

Admission Requirements

1. Academic Requirements: Applicants should hold a recognized master's degree or equivalent within the same academic discipline as the doctoral programme applied for. Previous work experience, publications and previous educational profile/specialization may also be taken into consideration.

2. Financial Requirements:

The Norwegian Directorate of Immigration (UDI) requires that the PhD candidate document a minimum of NOK 80 000 per year (EUR 10 000) to obtain a student residence permit to Norway. The same requirement is also valid for students admitted to the international master's programmes mentioned below. Depending on the economic situation of the respective department at NTNU, PhD students might in addition be expected to cover over head costs, costs related to participation in conferences etc. amounting to NOK 30 000 per year.

There are two main categories of PhD students/ candidates at NTNU:

1) PhD students obtaining a loan and scholarship from the Quota Programme for students from developing countries, and Central- and Eastern Europe. NTNU offers a very limited number of Quota Programme places for students who intend to take their PhD

(10-15 places per year). Admission and financing under the Quota Programme are therefore strictly reserved for candidates who are affiliated NTNU's collaborating institutions in developing countries, and Central- and Eastern Europe (see Appendix 2f).

2) PhD candidates with other funding; who have obtained a scholarship from the Research Council of Norway or NTNU's University Scholarship, or who are applying with foreign grants/ other sources of funding. These candidates must submit documentation of funding corresponding to NOK 80 0000 with their preliminary application form. Documentation of funding must also be submitted when applying for a student residence permit to Norway after the admission has been finalised.

Application Procedures:

International candidates who are interested in one of NTNU's PhD programmes should fill in the "preliminary application form", that can be down loaded from the following web site: www.ntnu.no/intersek/index-eng.html/. Applications can be forwarded to the Office of International Relations at any time of the year. The final decision about admission to the PhD programmes will be taken by the respective faculty.

Applicants employed at NTNU's collaboration institutions in developing countries, and Central- and Eastern Europe who wants to be considered for Quota Programme support, must in addition submit the following documents with their preliminary application form:

- * CV (Curriculum vitae)
- * Recommendation letters from the Dean, and the Head of Department, showing the need for staff development at PhD level at the home collaborating institution.
- * Research proposal of minimum 4 A4 pages
- * Official copies of diploma/ transcript from bachelor's and master's degrees
- * TOEFL/ IELTS test with satisfactory test score (see requirements on the next page)

Please notice that applications from candidates not employed at one of NTNU's collaborating institutions, and without documentation of alternative funding, will not be considered for the Quota Programme support. These applications will not be followed up by NTNU.

Language Requirements:

NTNU has no formal Norwegian or English language requirements for admission to PhD programmes. However, PhD candidates who intend to be considered for Quota Programme support, must document either an IELTS or TOEFL test with satisfactory test score. The minimum paper score for TOEFL is 550 (213 computer) or IELTS with 6.0 or better.



Language laboratory

Category 3: International Master's Programme students

NTNU offers 12 international master's programmes taught in English. In addition a new MPhil programme in Human Development at the Department of Psychology will begin in 2004 if formally approved by NTNU's Board. The MSc/MPhil programmes extend over 2 academic years (4 semesters) and are mainly intended for international students who have completed their first degree in a non-Nordic country. A limited number of Norwegian students also can be considered for admission to some of the programmes. High priority in admission is given to candidates from NTNU's collaborating institutions abroad. This is particularly so for applicants who want to be considered for financial support under the Quota Programme or the NORAD Fellowship Programme.

The following international master's programmes are offered at NTNU (2003-2004):

MSc programmes in Engineering/ Architecture/ Medicine:

- * MSc in Hydropower Development
- * MSc in Marine Technology
- * MSc in Petroleum Engineering/ MSc in Petroleum Geosciences
- * MSc in Light Metals Production
- * MSc in Coastal and Marine Civil Engineering
- * MSc in Urban Ecological Planning
- * MSc in Exercise Physiology/ Sports Science

MSc programmes in Natural Sciences:

- * MSc in Mathematics
- * MSc in Physics



Students PC lab

MPhil programmes in Arts/ Social Sciences:

- * MPhil in Linguistics
- * MPhil in English Language and Linguistics
- * MPhil in Social Change

All the master's programmes begin in mid August, except for the MSc programme in Marine Technology beginning in the first week of May. Seats under the Quota Programme are offered for 12 master's programmes (including MPhil in Human Development to begin in 2004), and seats under the NORAD Fellowship Programme for 3 master's programmes (MSc in Hydropower Development, MSc in Petroleum Engineering/ Geosciences and MPhil in Social Change).

Admission Requirements:

General requirements: Admission to our master's programmes is highly competitive. Therefore priority in admission will be given to candidates from NTNU's collaborating institutions, who have completed their first degree within a relevant academic area, and who have obtained an average grade of First Class Division or Second Class Upper Division. Candidates with a Second Class Lower Division or Third Class Division from their first degree will not receive the final application package. Candidates should also fulfil the English language requirement mentioned below.

Academic Requirements:**MSc programmes within Engineering/ Architecture/ Medicine:**

* MSc in Hydropower Development: BSc/BEng degree in Civil Engineering, and 2 to 5 years of work experience within planning, design and/or construction of hydraulic works.

* MSc in Marine Technology: BSc/BEng degree or equivalent in Coastal or Harbour Engineering, Ocean Engineering, Offshore Engineering, Marine Technology or Naval Architecture. These candidates may upon evaluation of their first degree be exempted from the first semester of studies. Candidates with other engineering degrees (Civil Engineering/Mechanical Engineering) may also be considered for admission. Applicants will have to choose one out of the four specializations: Marine Structures, Marine System Engineering, Marine Control Systems or Nautical Sciences when filling in the final application form. More information about the specializations will be provided with the final application form. Applicants should not indicate specialization on the preliminary application form. (There is no admission in 2004, next admission is in 2005)

* MSc in Petroleum Engineering / MSc in Petroleum Geosciences: BSc/BEng degree or equivalent in Petroleum Engineering or Applied Geosciences. Applicants with a first degree in Chemical Engineering may also be considered for admission. Relevant work experience is also considered important for admission.

* MSc in Light Metals Production: BSc/BEng degree or equivalent in Materials Science, Metallurgy, Chemical Engineering or Chemistry. Relevant work experience is also considered important for admission.

* MSc in Coastal and Marine Civil Engineering: BSc/BEng degree in Civil Engineering, Coastal Engineering or Harbour Engineering. Equivalent BSc degrees in Engineering might be considered provided 2 to 3 years relevant experience within port and coastal works.

* MSc in Urban Ecological Planning: BSc/BEng/BA degree preferably in Architecture, Planning or Civil Engineering. Relevant work experience is also considered important for admission. BA degree in Social Sciences (Geography or Planning) may be considered if the candidate has 2 to 5 years relevant work experience.

* MSc in Exercise Physiology/ Sports Sciences: BSc/BA degree or equivalent university education preferably within Exercise Physiology/ Sports Sciences, Exercise Sciences, Biology, Physiotherapy, Nursing, Biochemistry, Occupational therapy or similar fields.

A firm foundation in Human Biology is required within the first degree.



Dragvoll Campus

Academic Requirements:

MSc programmes within Natural Sciences:

* MSc in Mathematics: BSc degree in Mathematics, consisting of a minimum of 1.5 years of university studies in Mathematics.

* MSc in Physics: BSc degree in Physics, consisting of a minimum of 1.5 years of Physics and one year of Mathematics and Statistics

MPhil programmes within Arts/ Social Sciences:

* MPhil in English Language and Linguistics: BA in English, BA in Linguistics or equivalent, consisting of a minimum of 3 courses within English Language and Linguistics. (No admission in year 2004, next admission in year 2005)

* MPhil in Linguistics: BA degree in Linguistics. BA degree in related subject areas may also be considered if a minimum of 1.5 years of university studies in Linguistics has been completed as part of the degree.

* MPhil in Social Change: BA degree preferably in Geography. Bachelor's degree in other Social Sciences may also be considered if at least 1.5 years of university studies in Geography or Development Studies has been completed as part of the degree.

* MPhil in Human Development: BA degree in Psychology or other Social Sciences. Candidates with a BA/BSc degree in other relevant disciplines, such as Medicine can also apply. It is a requirement that the first degree should consist of a minimum of 15 credits within Introductory or General Psychology, and a basic course in Statistics.

Language Requirements:

Applicants to the international MSc programmes must pass either the TOEFL with a minimum paper score of 500 (170 computer) or IELTS with a minimum score of 5.0. For admission to the MPhil programmes the minimum paper score for TOEFL is 550 (213 computer) or IELTS with 6.0 or better. Citizens from Ireland, the UK, the USA, Canada, Australia and New Zealand do not have to submit TOEFL/IELTS test results. This is also the case for applicants who have spent at least one year in either of these countries, attending higher secondary school or university. Applicants from African countries with a BA/BSc/BEng degree where the language of instruction has been English and those who have passed English as a subject at GCE A-level with grade C or better are also exempted. Applicants with a university degree in English language (BA in English) are also exempted from the language requirement. Please be aware that applicants from Asian countries (for example Bangladesh, India, Nepal, Pakistan, Sri Lanka, Thailand, and Vietnam) with a BA/ BSc/ BEng degree where the language of instruction has been English are not exempted from the English language requirements, except for candidates holding a BA degree in English.

Application Procedures:

There are four categories of students attending the international master's programmes at NTNU:

- Students participating in the Quota Programme
- Students participating in the NORAD Fellowship Programme
- Students with other funding
- Norwegian students

A list of collaborating institutions under the Quota Programme and countries eligible for support is given in Appendices 2f and 2e, respectively. A list of countries eligible for support under the NORAD Fellowship Programme is given in Appendix 2c.

Students participating in the Quota Programme

Among the 43 higher educational institutions in Norway participating in the Quota Programme which is for students from developing countries, and Central and Eastern Europe, NTNU has the largest institutional quota with 175 places (147 for students from developing countries, and 28 for students from Central and Eastern Europe). A majority of the places are offered to students who are admitted to NTNU's international master's programmes or PhD programmes. High priority in the admission and nomination is given to candidates from NTNU's collaborating institutions who intend to utilise their education at home after completing the degree programme.

Students in the above category who are interested in applying for the International Master's Programmes under the Quota Programme or who can document alternative funding should contact the Office of International Relations and request for the preliminary application material/ form. The information can be downloaded from the following web site: www.ntnu.no/intersek/index-eng.html/. The preliminary application deadline is 1 December for admission in the following academic year. All applicants must pass a preliminary selection before they are sent the final application. The deadline for submitting the final application form is 1 February.

Norwegian applicants should not fill in the preliminary application form, but should contact the Admission Office at the Division of Student and Academic Affairs, NTNU, to obtain a separate Norwegian application form.

Students participating in the NORAD Fellowship Programme

The NORAD Fellowship Programme provides scholarships for students from developing countries to study at Master's level in Norway. Applicants interested in the NORAD (Norwegian Agency for Development Cooperation) Fellowship

Programme should contact the nearest Norwegian Embassy or Consulate for information (See also <http://www.siu.no>).

The NORAD Fellowship Programme targets personnel employed or formally linked to public institutions, non-governmental institutions, private sector enterprises, universities and research that will benefit from further education in order to strengthen the performance of their respective institutions. The programme (s) in question must be relevant from the perspective of the institution's strategic human resource planning to improve its capacity and management, and the applicant must document the potential for applying skills obtained at the programme within the institution in which she or he is employed or associated.

Additional Admission and Language Requirements:

Applicants to the NORAD Fellowship Programme must fully satisfy the academic qualifications and other admission requirements according to the specific criteria set by NTNU. Relevant professional experience of 2 to 3 years is required. For further information please see <http://www.siu.no>.



Skiing for their first time

Applicants must document official approval through an official letter of nomination issued by their employer or by their respective governments.

Application Procedure:

Applications should be submitted to the Norwegian Embassy or consulate in the applicant's home country. The Norwegian Embassy or Consulate will transfer the applications to SIU (Centre for International University Cooperation (SIU)) in Norway where they will be registered and forwarded to the relevant university or university college. It is the host institution, NTNU, which has the responsibility for processing and selecting the applicants.

Applicants must have a leave of absence from his/her position in the home country. NORAD Fellows are scheduled to return to their respective institutions after the fellowship period is over.

Category 4: Exchange students

NTNU participates in numerous student exchange and placement programmes such as the Socrates/Erasmus programme and NORDPLUS. Others are operated in conjunction with other Nordic countries (NORDPLUS). In addition there are cooperative agreements/exchange agreements with individual universities in many countries.

An overview is given in Appendix 2a.

Exchange students typically attend NTNU for short periods lasting between 3-12 months and return to their home university at the end of the exchange period.

Admission and Language

Requirements:

The students who are invited by NTNU for short periods of between 3 and 12 months are enrolled at their home university and do not have to meet the NTNU admission requirements (e.g., in language qualifications). The proposed programme of study at NTNU must be part of the student's studies at the home institution. The normal language of instruction, with some exceptions, is Norwegian, however there are many courses taught in English. Many exams can be arranged in English and in the majority of the cases textbooks are in English or alternative titles in English will be recommended. Project work can always be supervised in English.



Study Halls, Natural Science Building,
Gløshaugen Campus

Students can take Norwegian language courses at the intensive summer school or take one of the Norwegian classes offered in the autumn and the spring. You will find information on these courses on the Office of International Relation's web site:

<http://www.ntnu.no/intersek/intstud>

Application procedures:

To apply, we recommend that students submit our electronic application form no later than three months before their intended arrival in Norway.

(<http://www.intersek.ntnu.no/gjestestudenter/default.htm>).

Category 5: Visiting/non-degree students

Students who want to attend NTNU, but whose home university does not have a formal agreement with NTNU may apply as a visiting/non-degree student.

This category has two sub-categories:

- Visiting/non-degree students residing in a foreign country
- Visiting/non-degree students with a valid residence permit for Norway

Category 5a: Visiting/non-degree students residing in a foreign country

There are two groups of students here:

Category 5a1: Leonardo da Vinci Traineeship:

Category 5a2: Free movers

Category 5a1:

Leonardo da Vinci Traineeship:

Leonardo da Vinci is the European Union's vocational and continuing professional education programme. The intent of this programme is to boost cooperation between universities and businesses, thus allowing students and staff in the EU and the European Economic Area (EEA) to seek further training in the participating countries.



International students exploring Norway

Admission and Language Requirements:

Students who wish to take a Leonardo da Vinci Traineeship must be able to document that a company or research laboratory in Norway endorses their proposed project.

Application procedures:

Students from the EU who wish to apply should contact their home institution to find out what the proper application procedures are before they contact NTNU.

Category 5a2: Free movers

If your university does not have a formal exchange agreement with NTNU, (See Appendix 2a), you may apply to study at NTNU for a maximum of one academic year.

Admission and Language Requirements:

Students applying under this category must have the necessary background and prerequisites for the programme of study they wish to follow. All students must meet the English language requirements given in Appendix 1.

Application procedures:

Students in this category should submit an on-line application at least 3 months prior to the start of the semester. Use the application form exchange students:

<http://www.ntnu.no/intersek/intstud>

Note:

It is highly unlikely that a student will be issued a residence permit for temporary studies at NTNU, unless he/she has already been invited by NTNU through one of the programmes described in this brochure or through an exchange agreement. Exceptions may be made if a student meets the academic and financial requirements necessary for admission.

Category 5b: Visiting/non-degree students with a valid residence permit for Norway

NTNU may consider applications from foreigners for temporary studies in Engineering and Architecture if they already possess a valid residence permit for Norway. This option is not open to students who wish to study in the Arts, Social Sciences or Natural Sciences.

Admission and Language Requirements:

Applicants must meet the general admission and English language requirements. In addition, they must also meet, the Norwegian language requirements described under Category 1.

Application procedures:

Application forms are available from the Student Service Office (e-mail: studentservice@adm.ntnu.no, phone: +47 73 59 52 00) on the Gløshaugen campus. The application deadline for the autumn/spring semester is 25 June/15 November.

Category 6: A Student's invited as part of a NUFU –supported project (NUFU -Norwegian Council for Higher Education's Programme for Development Research and Education)

The NUFU Programme is funded by the Norwegian government. The main objective of NUFU is to contribute towards building up competence in developing countries through cooperation between universities, university colleges and research institutions in Norway and corresponding institutions in developing countries. Support may be provided for scientific equipment.

The needs of the developing country's institutions and justified priorities are paramount in the programme. Cooperation is based on equality between the parties and on long-term cooperation.

Admission and Language Requirements:

These will be evaluated by the home institution.

Application procedures:

In order to be considered for admission, a student must be officially connected to a specific NUFU project. There are a limited number of NUFU projects. Generally there are about 5 to 10 students who come to NTNU for periods of up to 3 months each year. No individual applications from students will be accepted.



Office of International Relations, NTNU

Category 7: Students at the Trondheim Academy of Fine Art and NTNU Department of Music, Music Performance Studies

Trondheim Academy of Fine Art

The objective of the Academy of Fine Art is to educate artists to the highest level. If art today is to reflect the changes occurring in society, then it must also take account of information technology and the cultural changes that are carried with it. Digital and electronic media therefore play an important role in our education and artistic practice. The Academy is actively engaged in an international contemporary art milieu and has contacts with artists, critics, curators and theorists from many areas of the world.

Trondheim Academy of Fine Art is part of the Faculty of Architecture and Fine Art at NTNU, and is one of three higher educational institutions in Norway offering courses in Fine Art. It offer both Bachelor of Fine Art and Master of Fine Art studies.

The duration of the Bachelor of Fine Art programme is three years, ending up in a BFA degree. After fulfilled BFA, there is the possibility of applying to Master of Fine Art studies for further development of the working process (2 years). Evaluation of students' work is carried out yearly and is based upon dialogues between tutor and student, participation in annual student exhibitions and attendance at lectures, seminars and courses.

Students in their final semester of the BFA or MFA programme take part in a graduation exhibition which marks the completion of degree. The MFA exhibition is considered to be a professional presentation of work signalling the transition from student to practising artist. It is held at the Trondheim Museum of Art and an external advisor/curator is appointed each year to coordinate the final exhibition.

Teaching is conducted primarily on the basis of one-to-one discussion between teacher and student, but group discussion also plays a central role. Students are not formally divided into departments, but orient themselves to the teaching staff and studio areas that best suit the development of their practice. The Academy has an open structure allowing students to migrate between the four areas of study; painting, sculpture, printmaking and intermedia.

Each student has a personal tutor, but all are encouraged to discuss their work with several members of the academic staff. Group discussions of students work, involving both staff and students, take place in the school's gallery where small shows are arranged in most weeks during the semester.

A comprehensive programme of visiting artists and lecturers provides the basis for a lively discussion and for the elaboration of a plurality of viewpoints.

Theory teaching is integrated, as far as possible with the teaching programme. There is a firm emphasis upon the theory and practice of contemporary art. Lectures, seminars and courses that combine both practical and theoretical work form the basis for a developing critical understanding of art, rooted in the student's own practice. Study tours are arranged periodically to provide students with first-hand experience of major museums and galleries.



Group discussions

It is the policy of the Trondheim Academy of Fine Art to maintain a small regular teaching staff and to engage a relatively large number of part-time and visiting teachers, thus ensuring diversity and a broad frame of reference in the teaching programme.

Studios, workshops and other resources

The Academy is located in a former industrial building at Innherredsveien 7, a few minutes' walk from the city centre. A total of 6000 m² is allocated for studios, workshops, gallery, library, lecture room and administration. The conversion from factory to art school resulted in maximum flexibility and large, open studios.

Intermedia

Video production & post-production; sound studio; media & computer labs; DV-cam, Macintosh G4 computers. Final Cut Pro and Avid digital video editing.

Photography

Labs for colour and black & white processing. Special lab for work with "liquid light" photo emulsion and historical photo processes. Digital lab with scanner, printer and digital cameras.

Printmaking

Photo-mechanical lab for transfer of photographic and digital images, well-equipped studios for all printmaking techniques.

Sculpture

Workshops for wood, metal, plaster, polyester and other common materials. Well equipped with machinery for construction in wood and metal.

Gallery KIT

The gallery is a 360 m² exhibition place which is used by students and teaching staff for individual and group presentations of work.

Library

The Academy's library is a section under the administrative direction of the NTNU Library. There is a wide selection of books, periodicals and audio-visual materials, with a particular emphasis on contemporary art.

Student exchanges

The Academy has a well established international network of contacts and is active both in Nordplus (the Nordic exchange system) and Socrates students from the EU. Particular emphasis is placed upon developing close contacts with a number of schools with which the Academy can build up long-term cooperation.

Application Procedure for BFA and MFA

Applications for the BFA programme are dealt with in two steps:

1. Initial application

Formal examination results are not normally considered a priority. Some form of preparatory art education (Foundation Course or similar) is considered to be an advantage but is not mandatory. Selection is made on the basis of the applicant's work. Applicants are evaluated on the basis of the application form and documentation of work as slides.

2. Entrance examination

On the basis of the initial application between 40–50 applicants will be called in for a practical entrance examination and interview.

No formal tasks or exercises are set for the entrance examination.

Applicants will work undirected in the Academy's studios for five days producing work of their own choosing in the medium of their choice.

Applicants may use technical workshops under the guidance of technicians and student assistants.

A jury will evaluate the work produced during the entrance examination at the end of the week. During the week each applicant will be called in to a short informal interview. Applicants are required to bring with them one recent original work, which must have been completed after the submission of the application form and slides.

Documentation will be retained by the Academy until the end of the exam week.

Applications for the MFA programme:

The applicants must have fulfilled their BFA study or another education at BFA level. The application is to consist of documentation of work, an intention of study, and copies of certificates, diplomas etc. Applicants for MFA may be invited to an interview.

To get application materials, call +47 73 59 79 00 or e-mail to: adm@kit.ntnu.no

The application must be addressed to:

Kunstakademiet i Trondheim, NTNU
7491 Trondheim, Norway

Department of Music, NTNU, Music Performance Studies

The Department of Music, former Trondheim Conservatory of Music, is part of NTNU's Faculty of Arts. The department offers a 4 year bachelor's degree programme and a two year master's degree programme in music performance studies within classical, church and jazz music. Students can take teacher-training education in their 3rd - 4th year, for those who want to become music teachers. The Department offers a wide variety of programmes covering instrumental pieces and song, jazz, church music, music education, physiology related to music and performance, music conveyance, chamber music, musical theatre, accompaniment, conducting, arranging, composing and music technology. All instruction and exams are in Norwegian. Additional information is provided on: <http://www.hf.ntnu.no/musikk>

There is an active music milieu in Trondheim that is bolstered by the possibilities offered at Trondheim's concert hall (Olavshallen), the Ringve Music Museum and Nidaros Cathedral.

Admission and Language Requirements:

Practical oral and written tests decide whether an applicant fulfils the musical requirements for a course of study. The results of these tests are decisive when evaluating applicants. Applicants should, therefore, acquaint themselves with these tests and prepare themselves thoroughly.

Applicants are expected to have:

a good standard of performance on their main instrument
basic knowledge and ability in music theory, formal analysis and the history of music, in addition to well-developed aural skills.

For certain studies:

a satisfactory level of performance on a second instrument,
other knowledge and skills.

Applicants must also meet general requirements for studies.

Application procedures:

Application forms (in Norwegian) are available directly from the departments webpage or can be requested by email to musikk@hf.ntnu.no. Auditions take place at the end of February and the beginning of March. Contact the department for the exact dates.

Note:

Unlike academic traditions elsewhere which commemorate and celebrate graduation from a university, in Norway, a student's admission to the university is the festive occasion.

At NTNU the academic year starts with a matriculation ceremony for degree-seeking students in August before teaching starts. While attendance is not compulsory for students in the Arts, Social Sciences and Natural Sciences, we encourage all students to take part in the event.

Students studying Engineering or Architecture are obliged to attend, and thus must inform the Division of Student and Academic Affairs in case they cannot. Failure to do so may jeopardize their student status at the university.

10. Application Procedures

Exchange students

Visit the web site of the Office of International Relations and select courses you are interested in. If you are just interested in working on a project or thesis write a Statement of Purpose indicating your area of interest. If you have already been in contact with a faculty member at NTNU, please let us know who this is.

Web pages/information of interest:

NTNU home page: <http://www.ntnu.no>

Office of International Relations, home page: <http://www.ntnu.no/intersek>

Your contact at the Office of International Relations can provide additional information on courses available.

Application form

The application form is found on the home page of the Office of International Relations. Submit the on-line application, and be sure to send a signed hard copy to the Office of International Relations along with your transcript.

Application form: <http://www.intersek.ntnu.no/gjestestudenter/default.htm>

Application deadlines

Autumn semester: 1 June, but preferably 3 months prior to semester start.

Spring semester: 15 November, but preferably 3 months prior to start at NTNU

Office of International Relations

O.S. Bragstads plass 3

NO-7491 Trondheim

NORWAY

Email: international@adm.ntnu.no

Phone: +47 73 59 5700; Fax: +47 73 59 5210

If you are accepted as a student at NTNU, you will be emailed a housing application.

Apply for a Norwegian Language Course

Intensive Summer Course: Application Deadline – 1 June

Application form: <http://www.intersek.ntnu.no/spraak/default.htm>

Norwegian as a Second Language: Application Deadline – Autumn: 15 June;

Spring: 15 November

Application form: Please contact international@adm.ntnu.no

11. Visa Regulations



A part from EU/EEA citizens, all foreigners who intend to stay in Norway for more than three months must request a residence permit from the Norwegian immigration Directorate (UDI: Utlendingsdirektoratet) www.udi.no. This means that a student residence permit must be obtained before leaving home. Only EU/EEA citizens are allowed to apply for such a permit after arrival in Norway. In order to obtain a student residence permit your studies in Norway must qualify as a regular student programme taken at a qualified institution of higher education.

In order to follow language courses in Norwegian, a student residence permit will only be granted when the student can document admittance to a qualified institution of higher education after the language course is completed.

To apply for a student residence permit, the student must forward a plan for his/her studies in Norway. The application form for such a plan can be obtained from Norwegian Embassies/Consulates. This plan should contain concrete information about the kind of studies the student is going to follow, when the planned education starts and ends. In addition, the student needs to document sufficient funds for his/her studies, and a residence address in Norway.

Financial documentation can be a bank guarantee, either in the form of a lump-sum bank deposit (to a Norwegian bank) or verification of regular instalment payments, equal to approximately NOK 80 000 per year. Contact your nearest Norwegian Embassy/Consulate for more information.

For students selected by NTNU in the Quota Programme or NORAD Programme, evidence of sufficient funds will be confirmed in the Letter of Admission.

For NUFU students, the Letter of Invitation will serve the same purpose. For incoming Socrates/Erasmus students, the home university or institution acts as sponsor.

EU/EEA Citizens

With regard to health insurance: EU/EEA citizens are covered if they bring along the standard form E111/E128. Students from EU/EEA countries must submit their applications for student residence permit as soon as possible after arrival.

Registration at the Immigration Office

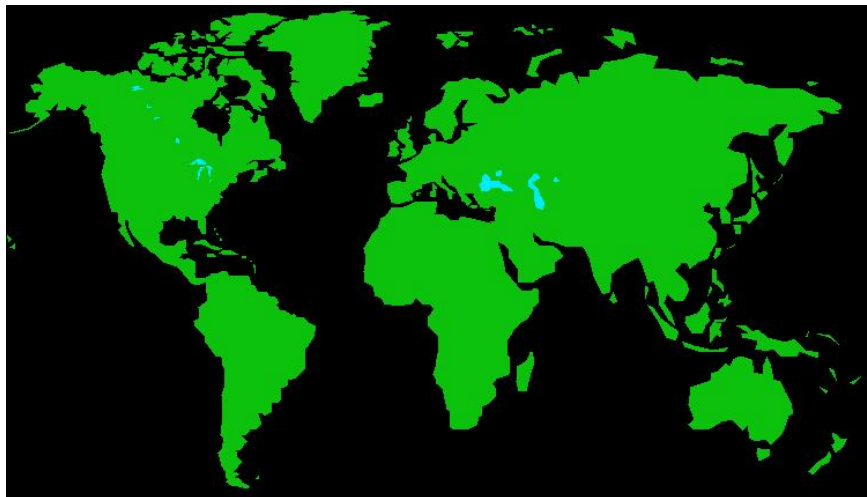
International students from outside the EU/EEA must report to the Trondheim Aliens/Immigration Office (Utlendingsavsnittet) adjacent to the Main Police Station within seven days of their arrival in Norway to have their student residence permit stamped into their passports.

Renewal of the student residence permit

A first-time student residence permit is issued for one year at a time. All requests for renewal should be forwarded to the Immigration Office in Trondheim at least one month before the old permit expires.

Work permits

An international student may apply for part-time employment while studying in Norway. However, this work permit is limited to a maximum of 20 hours per week during term time. The Immigration Office only accepts such requests if it can be shown that the student's academic performance will not be adversely affected. Certification is issued on a case-by-case basis, and depends on satisfactory academic progress to date. Students can work full-time during Easter, summer and Christmas vacations. Students should not arrive in Norway expecting to subsidize their education by combining studies with part-time or full-time work.



12. Recognition of International Education

Students sometimes begin their education at another educational institution and then transfer to NTNU. Others may have completed a degree programme abroad and are interested in having their degree formally recognized in Norway.

Recognition of higher education is taken outside of Norway is given in two ways:

If the student is taking a regular degree, transfer credits may be awarded.

If a completed degree programme is judged to be equivalent to commonly accepted standards in Norway, NTNU may extend formal recognition of the international degree.

Transfer credits as part of a Norwegian degree

Students who exceed the minimum requirements for admission to a Norwegian university or college may have credits awarded towards a Norwegian degree, thus possibly exempting them from certain courses at NTNU. In order to receive this exemption, the transfer credits must be relevant to the degree programme the student is enrolled in.

In the Arts, Social Sciences and Natural Sciences, students should contact the Office of International Relations at Gløshaugen. For Engineering and Architecture, the application form is called “Søknad om fritak i fag”, and can be obtained from the faculty where the student has been admitted.

To apply for such credits, students should submit transcripts, syllabuses and reading lists, as well as information on how the course was taught (instruction mode: lecture, tutorial, distance learning), total hours, type of examination and the grading system used). A student must be admitted to NTNU before we can process applications for the transfer of credits. The evaluation process takes two to three months.

Recognition of international degrees

People with an international degree in engineering or architecture often seek an equivalency certificate issued by NTNU to improve their standing in professional organizations and/or employment prospects in the Norwegian market. Contact the Office of International Relations for further information.

13. Student Finances

There are no tuition fees for regular programmes of study at Norwegian universities. At the beginning of each semester, NTNU students pay a semester fee to the Student Welfare Organization (approximately NOK 400). Students should be prepared to pay between NOK 3 000 and NOK 5 000 per semester for books, stationary and other incidentals. In comparison with other countries, Norway is an expensive country. The State Educational Loan Fund estimates the average expenses for students to be approximately NOK 8 000 per month. Because of the high cost of living, it is vital that all financial matters are well planned before a student arrives in Norway.

Loans and Scholarships

There are very few loans and scholarships available for international students. Some scholarships are announced by NTNU's faculties, particularly within technical disciplines; like the PhD university scholarships, or scholarships from the Research Council of Norway or industry linked to ongoing projects at the different departments. Qualified students with very good grades might contact the faculty of interest for more information about these scholarships. In addition NTNU offers places under the Quota Programme for developing countries, Central- and Eastern Europe for the International Master's and PhD programmes (see below). Applicants should contact the Office of International Relations directly. Students at NTNU who intend to apply for a loan/ scholarship under the Quota Programme must be admitted to NTNU first, and at the same time be nominated for the Quota programme by the Office of International Relations. The final application for loan and scholarship should first be recommended by the Office of International Relations. For the nominated candidates, The Office of International Relations will then forward the applications to the State Educational Loan Fund for the final processing. Only candidates, who intend to use the education in their home country after the degree programme at NTNU is completed, will be considered for Quota Programme nomination by the Office of International Relations. Students from NTNU's collaborating universities/companies in developing countries, and Central and Eastern Europe are given priority for admission and nomination to the Quota Programme (See Appendix 2f)

The Norwegian State Educational Loan Fund ("Statens Lånekasse for Utdanning") provides grants and loans to the following categories of foreign citizens:

For studies at undergraduate and master's level:

Political refugee

Immigrant

The Nordic Countries

EEA (European Economic Areas) countries

For studies at undergraduate (not at NTNU), master's and PhD level:

Quota Programme for students from developing countries, Central- and Eastern Europe.

Details regarding eligibility under these categories and repayment of loans may be found on the website of the State Educational Loan Fund, Norway:

<http://www.lanekassen.no>

Students applying for such loans and scholarships must have been admitted to a Norwegian educational institution.

The Quota Programme

In 1994, the Norwegian government established a development assistance scheme known as the Quota Programme. This programme offers financial support to students from developing countries, and Central and Eastern Europe. The main objectives of the Quota Programme are to contribute to capacity building in the students' home countries/ home institutions, and to encourage students from these countries to participate in the process of internationalization. A list of eligible countries is given in Appendix 2e.

The Quota Programme is Norway's and NTNU's largest loan and scholarship scheme for financing students from these countries. Nationally there are a total of 1100 places under the Quota Programme: 700 for students from developing countries, and 400 for students from Central and Eastern Europe. Every third year, NTNU applies to the Norwegian Ministry of Education and Research for its share of the 1100 places. Nationally, NTNU has the largest institutional quota with 175 Quota Programme seats (147 for students from developing countries, and 28 for Central and Eastern Europe), followed by University of Bergen (154 seats) and University of Oslo (154 seats).

Financial support is largely in the form of a loan from the State Educational Loan Fund; a minor portion is a scholarship. Most of the places in the Quota Programme are given to students admitted to the international master's programmes or PhD programmes previously mentioned in this handbook.

To be considered for the Quota Programme, students must intend to use their education in their home country. Students applying directly from abroad must have resided for at least one year in their home country immediately prior to their admission at NTNU.

Students receiving financial support under this programme may be released from their repayment obligation upon returning to their home country and taking permanent residence there. Applications for this waiver must be forwarded to the State Educational Loan Fund after a student has resided for one year in his/her home country. If a student subsequently leaves his/her home country within 10 years after the waiver is granted, the student must repay the loan in accordance to the same repayment rules as Norwegian citizens.

Loans/scholarships under the Quota Programme are currently NOK 8 000 per month for a maximum of 10 months per year. This is meant to cover accommodation and living expenses such as books and supplies, food, clothing, transport, medical and dental care, the semester fee and other necessities. The Quota Programme also provides partial financial support for travel expenses to and from Norway, as well as financial support to conduct fieldwork at home, if the field work is a part of the degree programme. Within certain restrictions, the student is also permitted one free trip home per year. Quota Programme students can also apply for a family allowance if they have children staying together with them in Trondheim during their studies.

Financial support for exchange students

NTNU participates in numerous bilateral agreements under the Socrates/Erasmus programme. Students should contact their home university to obtain information about these EU-funded grants. Financial support will cover only a small portion of fixed costs while abroad. Therefore, students must make other arrangements to cover their expenses.

NTNU provides financial support for one graduate student per year from the University of Minnesota. Graduate students from this university should contact the Graduate School Fellowship Office, UMN for more information.

Financial support under the Leonardo da Vinci programme

Leonardo da Vinci grants at NTNU are only available for its Norwegian students. Students from an EU member state and Central and Eastern European states in the programme must apply to their home institution.



The Leonardo da Vinci programme is for students doing traineeships in companies, not for university studies. The placements have to last between 3 to 12 months. For more information please see:

<http://www.ntnu.no/intersek/leonardo>

ID-number and Part-time Work Permit as a student:

In order to obtain a bank account in Norway you need a personal ID-number. This number is issued by the National Registry Office (*Folkeregisteret*) at Krambugaten 3. There are different rules regarding the issuance of ID-numbers and obtaining part-time work permit for international students. It depends on which category of students you belong to:

Students staying in Norway more than 6 months

After receiving your student residence permit, you should apply for a personal ID-number at the National Registry Office. The application takes approximately 3 weeks to be processed. Within certain limits, these students can apply for a part-time work permit in Norway, but will first need a recommendation for such part-time work by the respective coordinator at the Office of International Relations. If recommended, the part-time work permit will be issued at the Aliens Office in Trondheim. After obtaining a valid part-time work permit, the students must contact the Taxation Office close to the National Registry Office to obtain a tax card, and then present the work permit and the tax card to the employer.

Students who are staying less than six months and who are not going to work

You will not be able to get an ID-number. If you need a bank account while you are here, the bank must apply for a D- number for you. You should go to the bank and ask to open an account. The bank must then contact the National Registry Office on your behalf and request a so-called D-number, which is a simplified version of the personal ID-number.

Students who are staying here less than six months and who are going to work

If you are working and earning wages while you are in Norway, you need a Norwegian tax card to report your earnings (for example: Leonardo da Vinci students). To get such a tax card, you must go to the National Registry Office with your contract which specifies how much you are going to earn. The National Registry Office will then issue both a tax card and a D-number.

14. Student Welfare

This section gives some general information regarding the welfare and health concerns of NTNU's international students. You will find detailed information available on the web:

www.ntnu.no/intersek

All students matriculated at NTNU are entitled to the services of the Studentersamskipnaden (community service organization for students at universities and colleges in Trondheim).

“Samskipnaden”, as it is usually called, provides direct and indirect benefits for Norwegian and international students alike.

Accommodation

The Student Welfare Organization operates a number of student villages that house both Norwegian and international students. The majority of students live at either Moholt Student Village (Moholt studentby) or Steinan Student Village (Steinan).

Single furnished rooms, equipped with telephones, are typically grouped in units of three or four in which students share a common kitchen and bathroom. The rent ranges from approximately NOK 2000 to 4000 pr month depending on whether it is a single apartment or a family apartment. This includes electricity up to pre-set limits. Laundry and recreational facilities are conveniently located nearby.

The Office of International Relations will reserve a single room for international students participating in one of its programmes. Information on accommodation will be provided with your Letter of Admission/Letter of Invitation.

Medical insurance and health care

International students are entitled to medical benefits under the Norwegian National Health Insurance Scheme. It is possible to apply for insurance coverage of accompanying spouses and children of international students. The insurance is free-of-charge and covers major expenses while in Norway.

Doctor's consultations and hospital expenses are subject to a nominal fee. This insurance is not valid outside Norway, so students travelling abroad must purchase separate insurance.

The medical centre for students and staff is located near the southern entrance of the university campus at Gløshaugen (general practitioners). There is also a health centre at the Moholt Student Village (psychologists and social workers).

Travel discounts

Students with a valid student ID card and semester enrolment receipt are entitled to travel half price with the Norwegian State Railways (NSB). Students are also entitled to discounts on domestic flights. For discounts on international flights, students should contact the Kilroy Travel Agency (www.kilroytravels.com).

International Student Union (ISU)

NTNU has a long tradition of arranging activities that enable students to relax and enjoy the social life in Trondheim. Each department promotes its own brand of social interaction. There is also an International Student Union run by students that provides advice (including legal advice) and offers entertainment and translation services. Their office is in the Moholt Student Village (basement of Herman Kragstveit 24). You should also visit their web site and join their mailing list. See <http://www.stud.ntnu.no/studorg/isu/main.html> .

Their postal address is:

International Student Union, Postboks 29, Moholt Studentby, 7050 Trondheim

There is also an active International Club in Trondheim (ICOT) that is frequented by both international and Norwegian students.

Erasmus Student Network (ESN)

ESN provides foreign students with information about a wide variety of topics. Exchange students can participate in the activities organised by the local ESN section and get a mentor. Local students can go to the ESN section for information about exchange programmes and studying abroad. Local students can become mentors and participate in the activities the local ESN section organizes.

ESN International tries to provide relevant information for all exchange students and those interested in student mobility issues through its website.

<http://www.esn.org/>



Triple ski jump (16,5 meter) Foto: Jan Tore Gjendem

15. Sources of Information

The information you will need during your degree programme at NTNU can come from a variety of sources. These include the Division of Student and Academic Affairs, your faculty and department at NTNU, NTNU's web site and last, but not least, the course catalogues. You will find a summary of the programmes offered at NTNU in the Admissions brochure and in the brochures for the individual faculties.

The course catalogues are published at the end of every spring semester. These contain course titles and descriptions, as well as information on the academic calendar, degree requirements, examination regulations and much more. The course catalogues can be purchased from the university bookstore, but they are also available on the web. Some of the faculties also have detailed brochures concerning their programmes. You can obtain these by writing to Student Service Office, NTNU or visiting their web sites.

<http://www.ntnu.no/studieinformasjon/serving/studiehandbok.html>

In addition, students studying the arts, social sciences, mathematics, natural sciences or teacher training education should consult the lecture catalogue (forelesningskatalog) available from the Student Service Office or the web site:

<http://www.ntnu.no/studieinformasjon>

The lecture catalogue gives course descriptions, information on when and where the course will be held and who is teaching the course. The examination dates for the courses in these disciplines are given in the examination catalogue (Eksamensplanen) available from the Student Service Office and on their web site.

Students may obtain a list of required reading “pensumlistene” for courses in the arts, social sciences and natural sciences from the Student Service Office.

All the above-mentioned catalogues except the one for the Master's programmes are in Norwegian. The European Credit Transfer System (ECTS) catalogue is an on-line catalogue with English descriptions of many of the courses presented in the course catalogues written in Norwegian. The ECTS catalogue can be accessed from <http://www.ntnu.no/intersek/intstud/academic.html>.

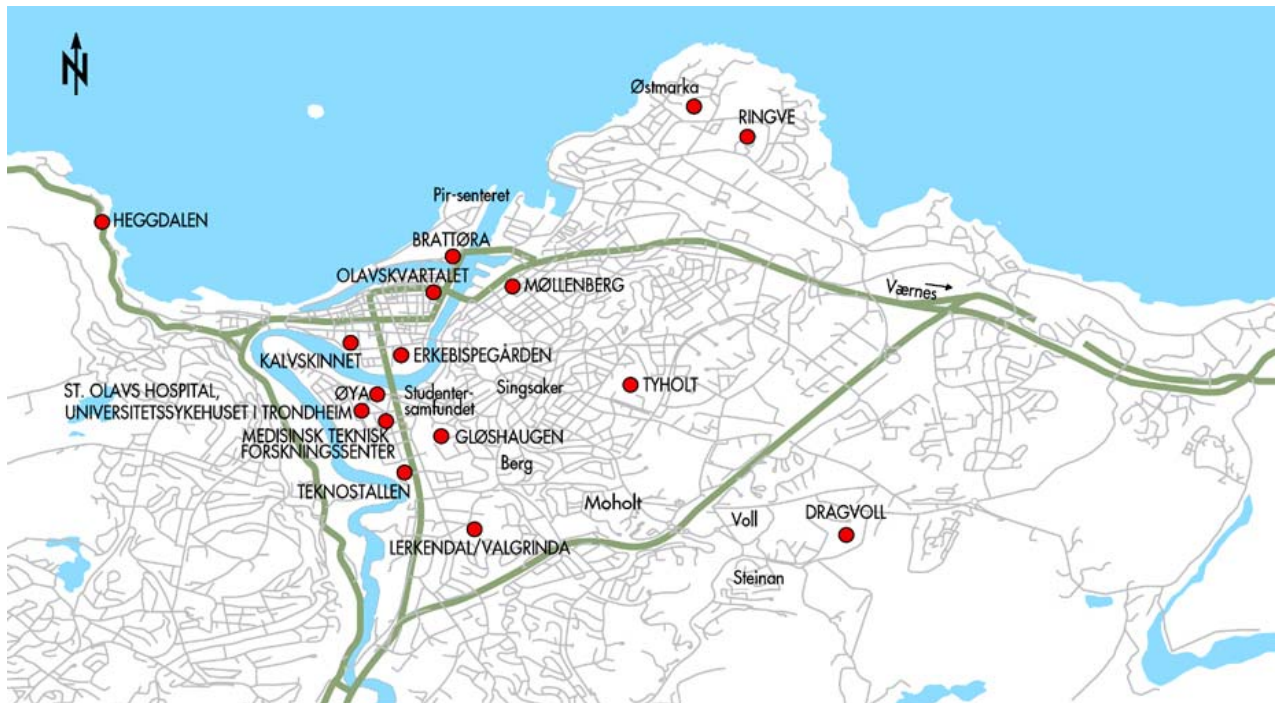
Additional information in English is found on the web sites of some of the departments' home pages. Should you have problems please ask your contact at NTNU or the Office of International Relations, NTNU.

Though you may know no Norwegian it is still worth browsing through the most current Norwegian catalogue. Please see www.ntnu.no/intersek/coursecatalog

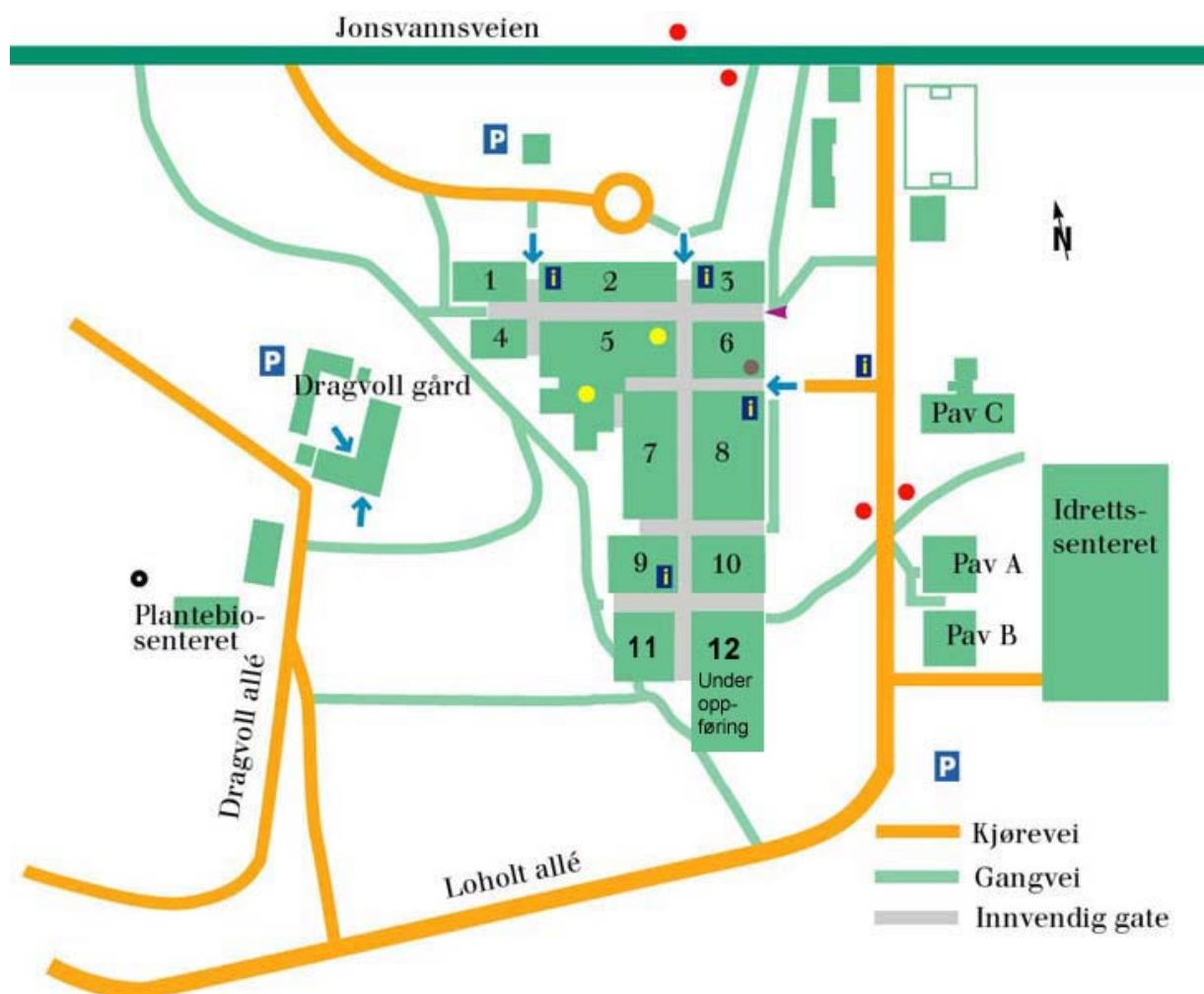
Main Internet portal; www.ntnu.no/intersek

16. Maps over NTNU's premises

Overview of Trondheim and NTNU's premises



Dragvoll campus



Gløshaugen campus



17. Appendices

Appendix 1: English language requirements at NTNU

The English language requirement may be met in any of the following ways:

A passing grade from a Norwegian upper secondary school (videregående skole)

Through a standardized test:

- TOEFL (Test of English as a Foreign Language see <http://www.toefl.org>) with a minimum score of 500/170 points on the paper-based/computer-based test. For admission to the MPhil programmes the minimum scores are TOEFL is 550/230 paper based /computer based or IELTS with 6.0 or better.
- IELTS (International English Language Testing Service) with a minimum score of 5.0 points (<http://www.ielts.org>)
- APIEL (Advanced Placement International English Language examination with a minimum score of 3 points

University of Cambridge tests:

- First Certificate in English
- Certificate in Advanced English
- Certificate of Proficiency in English

MELAB (Michigan English Language Assessment Battery with a minimum score of 85 points

One year of study at a university in Australia, Canada, Ireland, New Zealand, Great Britain or the USA. The language of instruction must be English.

A university degree with a major in English

If special situations warrant it, applicants may document their English expertise in other ways.

Students from some countries may be exempt from documenting their competence in English as described above. An overview is given below.

Applicants from countries that are members of the European Union/European Economic Area (EU/EEA) and/or the European Council/UNESCO-Cepes and who have had English as a second language over a period of a minimum of 7 years from elementary school through upper secondary school. In order to be eligible for this exemption, applicants must document that they meet these criteria. If special situations warrant it, applicants may document their English expertise in other ways.

Countries eligible: Albania, Azerbaijan, Belgium, Bosnia-Herzegovina, Bulgaria, Estonia, France, Greece, Israel, Yugoslavia (Serbia, Montenegro, Wojvodina, Kosovo), Croatia, Cyprus, Czech Republic, Hungary, Latvia, Lithuania, Luxembourg, Macedonia, the Netherlands, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Turkey, Ukraine, White Russia

Applicants with a Bachelor degree from a university in which the language of instruction is English
Countries eligible: Botswana, Ethiopia, the Philippines, Gambia, Ghana, Cameroon, Kenya, Liberia, Malawi, Namibia, Nigeria, Sierra Leone, Swaziland, South Africa, Tanzania, Uganda, Zambia, Zimbabwe

Applicants who have an A-level exam in English

Countries eligible: Botswana, Gambia, Ghana, Hong Kong, Cameroon, Kenya, Macau, Malawi, Malaysia, Mauritius, Namibia, Nigeria, Sierra Leone, Singapore, Swaziland, Tanzania, Tonga, Uganda, Western Samoa, Zimbabwe

In addition the following may qualify for exemption:

Applicants from African countries with a BA/BSc/BEng degree where the language of instruction has been English and those who have passed English as a subject at GCE A-level with grade C or better.

Applicants with a university degree in English language (BA in English) are also exempted from the language requirement. Please be aware that applicants from Asian countries (for example Bangladesh, India, Nepal, Pakistan, Sri Lanka, Thailand, and Vietnam) with a BA/ BSc/ BEng degree where the language of instruction has been English are not exempted from the English language requirements, except for candidates holding a BA degree in English.

Appendix 2a: Collaborating universities/institutions – Formal bilateral agreements

Africa

Cameroon

University of Ngaoundere

Ethiopia

Addis Ababa University

Ghana

University of Ghana

University of Cape Coast

Mozambique

Univ. Eduardo Mondlane

South Africa

University of CapeTown, (Architecture)

Univ. of Durban-Westville, (Solar Energy)

University of Stellenbosch, (Psychology)

Tanzania

Univ. of Dar es Salaam,

Uganda

Makerere University

Zimbabwe

University of Zimbabwe

Asia

China

Beijing Institute of Petrochemical Technology (Chemical Engineering)

Shanghai Jiao Tong University (Marine Technology)

Shanghai University of Technology

Xi'an University of Architecture and Technology (Architecture)

Nanjing Univ. of Science and Tech., Jiangsu

India

School of Planning and Architecture, New Delhi (Architecture, Urban Planning)

Indian Institute of Science, Bangalore

Iran

National Iranian Oil Company (Petroleum Engineering)

Japan

Kyoto University (Engineering)

Osaka Prefecture University

The University of Tokyo

Tokyo Institute of Technology

Waseda University, Tokyo

Tottori University

Jordan
Jordan University of Science and Technology (Medicine)

Korea
Ewha, Womans University

Malaysia
Technological Univ. of Malaysia
(Marine Technology)

Nepal
Tribhuvan University
Kathmandu University

Papua New Guinea
University of Papua New Guinea

Singapore
Nanyang Technological University
National University of Singapore

Vietnam
Fisheries University (Aquaculture)
Ho Chi Minh City University of Technology

Europe

Bulgaria
New Bulgarian Univ., Sofia

Czech Republic
Czech Academy of Science, Brno
Prague Institute of Chem. Tech.
University of Pardubice

Estonia
Tallin Technical University

Hungary
Budapest University of Technology and Economics

Macedonia
Institute of Earthquake Eng., Skopje

Latvia
Riga Technical University

Lithuania
Kaunas University of Technology

Romania
Polytechnic University Bucharest
Babes-Bolyai University, Cluj-Napoca

Russia
IHPCIS Institute Computing Information Petersburg
Pomor International University, Archangelsk (Petroleum Eng.)
Institute of Nuclear Research, Dubna
Mendeleev's Russian Chem. Tech. University, Moscow

Austria
Technische Universität Graz
Technische Universität Wien

Denmark
Aarhus Universitet

Finland
Åbo Akademiet
University of Jyväskylä
University of Kuopio

France
Centre national d'études spatiales, Toulouse
Ecole Centrale Nantes
ENS Informatique, Math. Appliquees, Grenoble
ENS Petrole, Moteurs, Paris
IFP, Paris
Institut National des sciences appliquées, Toulouse (INSA)
Sup 'Aero, Toulouse
Université de Caen

Germany
Technische Universität Darmstadt
TU Bergakademie Freiberg
Technische Universität München
RWTH Aachen

Iceland
University of Iceland
University of Akureyri

Italy
Politecnico di Milano
Politecnico di Torino

Netherlands
TU Delft

Portugal
Universidade do Porto

Spain
Universidad Politecnica de Cataluna
Universidad Politecnica de Madrid
Universidad Politecnica de Valencia

Sweden

Kungliga Tekniska Högskola (KTH), Stockholm

Lunds Universitet

Stockholms Universitet

Umeå Universitet

Switzerland

Eidgenössische Technische Hochschule (ETH), Zürich

NTNU is a member of the Santander Group,

European Universities Network see: <http://sgroup.be/>

Australia/Oceania

Australia

Bond University

University of Wollongong

The University of Newcastle

University of Western Australia

La Trobe University

Queensland University of Technology

North America

Canada

Queens University, Kingston

Augustana University College

University of Western Ontario

University of Alberta

USA

Colorado School of Mines

Georgia Institute of Technology

Harvard University

Iowa State University

Michigan Technological University

North Carolina State University

Ohio University, Athens

Pennsylvania State University

Univ. of Washington

Univ. of Wisconsin, Madison

University of California, Berkeley

Univ. of Minnesota, Twin Cities

Univ. of Michigan

University of New Orleans

Univ. of Texas, Austin

Worcester Polytechnic Institute

San Diego State University

University of Maryland

Massachusetts Institute of Technology

South America

Argentina

University of Buenos Aires

Brazil

Federal University of Rio Grande do Sul

Federal University of Rio De Janeiro

Universidade de Brasilia

Chile

Universidad Catolica de Valparaiso

Appendix 2b: NORAD Fellowship Programme: Collaborating institutions

Africa

Ethiopia

- Water Resources Development Authority
- Ethiopian Electric Light & Power Authority

Tanzania

- Tanzania Electric Supply Company
- University of Dar es Salaam (chemistry, chemical & process engineering)
- Ministry of Water, Energy & Minerals
- Tanzania Petroleum Development Corp.

Uganda

- Uganda Electricity Board

Zambia

- Zambia Electric Supply Company

Asia

Bangladesh

- Bangladesh Power Development Board
- Dhaka Electric Supply Authority
- Rural Electrification Board
- Petrobangla
- Bangladesh Petroleum Exploration
- Bangladesh Petroleum Institute

India

- National Hydroelectric Power Corp.
- Central Water Commission/ Hydel Civil Engineering Directorate
- Oil and Natural Gas Commission

China

- China National Offshore Oil Corp.

Nepal

- Butwal Power Company
- Nepal Electricity Authority
- Himal Hydro & General construction Ltd.
- Ministry of Water Resources
- Department of Mines & Geology/Petroleum
- Exploration Promotion Project

Pakistan

- Water Power Development Authority
- Hydro Electric Planning Organization

Sri Lanka

- Central Engineering Consultancy Bureau
- Mahaweli Authority of Sri Lanka
- Ceylon Electricity Board
- Lanka Electricity Company

Appendix 2c: NORAD Fellowship Programme: Countries eligible for support

Southern and Eastern Africa

Angola
Botswana
Eritrea
Ethiopia
Lesotho
Malawi
Madagascar
Mozambique
Namibia
Swaziland
South Africa
Tanzania
Uganda
Zambia
Zimbabwe
Mali
Mauritius

South Asia and Indo-China

Bangladesh
Bhutan
Cambodia
India
Laos
Afghanistan
Nepal
Pakistan
Sri Lanka
Vietnam

Central America

El Salvador
Guatemala
Honduras
Nicaragua

Middle East

Palestinian Territories

Appendix 2d: NUFU Programme: Collaborating universities (fields of research/education)

Africa

Ethiopia

- Addis Ababa University, Addis Ababa (Population growth and land use in Central Ethiopia, geographical information systems, implementation of Msc in Road and Transportation Engineering)

Ghana

- University of Ghana, Legon, Accra (geography, linguistics, history)
- Univ. of Cape Coast, Cape Coast (geography)

Mozambique

- Universidad Eduardo Mondlane (physics/solar energy)

South Africa

- University of Durban-Westville, Durban (physics/solar energy)

Tanzania

- University of Dar-es-Salaam, Dar-es-Salaam (Postgraduate Program for Water management)

Uganda

- Makerere University, Kampala (PhD research cooperation with the Faculty of Technology)

Zimbabwe

- University of Zimbabwe, Harare (Medical microbiology and mineral resources engineering)

Asia

Nepal

- Tribhuvan University, Kathmandu (Postgraduate research cooperation, Institute of Engineering)

Vietnam

- Fisheries University (Marine aquaculture)

Appendix 2e: Quota Programme: Countries eligible for support

Developing Countries (According to OECD's DAC list of developing countries)

Afghanistan
Algeria
Angola
Bangladesh
Belize
Benin
Bhutan
Bolivia
Botswana
Burkina Faso
Burundi
Cambodia
Cameroon
Cape Verde Islands
Central African Republic
Chad
P.R. China
Colombia
Comoros
Congo Dem.Rep.
Costa Rica
Cuba
Djibouti
Dominica
Dominican Rep.
East Timor
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Ethiopia
Fiji
Gambia
Ghana
Guatemala
Guinea
Guinea-Bissau
Guyana
Haiti
Honduras
India
Indonesia
Iraq
Iran
Ivory Coast
Jamaica
Jordan
Kenya
Kiribati

Laos
Lesotho
Liberia
Madagascar
Malawi
Maldives
Mali
Marshall Islands
Mauritania
Micronesia
Mozambique
Mongolia
Morocco
Myanmar
Namibia
Nepal
Nicaragua
Niger
Nigeria
North Korea
Pakistan
Papua New Guinea
Paraguay
Peru
The Philippines Rep. of South Africa
Rwanda
Sao Tome and Principe
Senegal
Sierra Leone
Solomon Islands
Somalia
Sri Lanka
Sudan
St. Vincent and the Grenadines
Swaziland
Syria
Tanzania
Thailand
Togo
Tonga
Tunisia
Tuvalu
Uganda
Vanuatu
Vietnam
West Bank and Gaza*
Western Samoa
Yemen
Zambia
Zimbabwe

Central and Eastern Europe

Albania
Armenia
Azerbaijan
Belorussia
Bosnia -Herzegovina
Bulgaria
Croatia
Czech Republic*
Estonia*
Georgia
Hungary*
Kazakhstan
Kyrgyzstan
Latvia*
Lithuania*
Macedonia
Moldova
Poland*
Romania
Russia
Slovak Republic*
Slovenia*
Tajikistan
Turkmenistan
Ukraine
Uzbekistan
Yugoslavia

* EU member states, not eligible for Quota Programme support from autumn 2004

Palestinian Territories*

*Areas under PNA jurisdiction only

Students from the Palestinian Territories enrolled at the following universities may also be considered for financial support under the Quota Programme:

- An-Najah National University, Nablus
- Al-Quds University, Jerusalem
- Al-Quds Open University, Jerusalem
- Al-Azhar University, Gaza
- Bethlehem University, Bethlehem
- Birzeit University, Birzeit
- Gaza Islamic University, Gaza
- Hebron University, Hebron

Appendix 2f: Quota Programme: Collaborating universities/ institutions

Africa

Ethiopia

- * Addis Ababa University, Addis Ababa (Architecture/ Urban Planning, Transportation Engineering, Chemical Engineering, History, Geography, Social Anthropology, Biology, Language Studies)
- *Arba Minch Water Technology Institute, Arba Minch (Hydropower Development)

Ghana

- * University of Ghana, Legon, Accra (Geography, Linguistics, Psychology)
- * University of Cape Coast, Cape Coast (Geography, Sociology and Political Sciences)
- * Kwame Nkrumah University of Science and Technology, Kumasi (Engineering, Natural Sciences)
- *Ghana National Petroleum Corp. (Petroleum Engineering)
- *Volta River Authority (Electrical Eng./ Hydropower Development)

South Africa

- *University of CapeTown, Cape Town (SEARCH: Architecture)
- *Univ. of Durban-Westville, Durban (Solar Energy/ Physics)
- * University of Stellenbosch, Stellenbosch (Psychology)

Tanzania

- * Univ. of Dar es Salaam, Dar es Salaam (Engineering/ Natural Sciences, Geography, Water Resources Management/ Hydropower Development)

Uganda

- * Makerere University, Kampala (Engineering, SEARCH: Architecture/ Urban Planning, Natural Sciences (Mathematics/ Physics), Geography, Language Studies, Psychology, Medicine)
- *Petroleum Exploration and Production Department, Entebbe (Petroleum Engineering)
- * Uganda Electricity Board, Kampala (Hydropower Engineering)

Zimbabwe

- * University of Zimbabwe, Harare (Engineering, Medicine)

Asia

Bangladesh

- *Petrobangla (Petroleum Engineering)
- *Bangladesh Petroleum Exploration & Production Company Ltd. (BAPEX) (Pet.Eng.)
- *Bangladesh Gas Fields Co. Ltd. (Petroleum Engineering)

P.R. China

- * Beijing Institute of Petrochemical Technology (Chemical Engineering)
- * Shanghai Jiaotong University (Marine Technology)
- * Xi'an University of Architecture and Technology (Architecture)
- *Renmin University (Computer Science)

India

- * School of Planning and Architecture, New Delhi (Architecture, Urban Planning)
- * Utkal University, Orissa (Geography, Psychology, Social Sciences)
- * Indian Institute of Science, Bangalore (Engineering, Natural Sciences)
- * Oil and National Gas Commission (Petroleum Engineering)

Nepal

- *Tribhuvan University, Kathmandu (Engineering, Architecture, Urban Planning, Natural Sciences (Physics and Mathematics))
- *Kathmandu University (Engineering, Natural Sciences (Physics and Mathematics))
- *Butwal Power Company (BPC) (Hydropower Development)
- *Nepal Electricity Authority (NEA) (Hydropower Development)
- *Himal Hydro & General Construction Ltd. (Hydropower Development)
- *Ministry of Water Resources (Hydropower Development)

Pakistan

- *Sarhad Hydel Development Organisation (SHYDO) (Hydropower Development) Sri Lanka
- *University of Peradenya (Geography)
- *University of Moratuwa (Engineering/ Natural Sciences)

Central and Eastern Europe

Bulgaria

- *New Bulgarian Univ., Sofia

Czech Republic*

- *Czech Academy of Science, Brno
- *Prague Institute of Chem. Tech.
- *University of Pardubice

Estonia*

- *Tallin Technical University

Hungary*

- * Budapest University of Technology and Economics

Macedonia*

- * Institute of Earthquake Eng., Skopje

Latvia*

- * Riga Technical University

Lithuania

- * Kaunas University of Technology

Romania

- *Polytechnic University Bucharest
- *Babes-Bolyai University, Cluj-Napoca

Russia

- * IHPCIS Institute Computing Information Petersburg
- *Pomor International University, Archangelsk (Petroleum Engineering)
- *Institute of Nuclear Research, Dubna
- *Mendeleev's Russian Chem. Tech. University, Moscow

* Estonia, Latvia, Lithuania, Polen, Slovakia, Czech Republic and Hungary will become new member countries of the EU, and will be taken out of the Quota Programme scheme from the autumn semester 2004. Quota Programme students from these countries who have been admitted before the autumn semester 2004, will however be allowed to complete their studies at the Norwegian University of Science and Technology without losing their financial support.

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