Search result (research units) - DTU Orbit (09/08/2017)

Center for Quantum Technologies

Center
Short name: QuantumDTU

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 309-206
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: 45 25 33 06

Web addresses
Web: http://www.quantum.dtu.dk/

E-mails
E-mail: ulrik.andersen@fysik.dtu.dk

Organisation profile
Center leader: Ulrik Lund Andersen
Organisational unit: Center

The VILLUM Center for the Science for Sustainable Fuels and Chemicals

Center
Short name: V-SUSTAIN

Web addresses
Web: http://www.v-sustain.dtu.dk/

Organisation profile
The VILLUM Center brings together a group of the world's leading scientists from DTU, Stanford University, University of Copenhagen (KU) and University of Southern Denmark (SDU) - all of which have worked closely together over the past ten years to exploit the synergies between their various areas of expertise in theory and experimentation. The center is headed by Professor Ib Chorkendorff and based at DTU.
The centre has been made possible by an anniversary grant of DKK 150 million from the VILLUM FONDEN to mark the VKR Group's 75-year anniversary.
Organisational unit: Center

The Hempel Foundation Coatings Science and Technology Centre (CoaST)

Department of Chemical and Biochemical Engineering
Short name: CoaST

Addresses
Type of address: Postal address
Street: Søltofts Plads
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City: Kgs. Lyngby
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Phone: +45 45 25 28 00
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Organisational unit: Section

Operations Research
Management Science
Short name: Operations Research

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Country: Denmark

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E-mails
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Organisational unit: Group

Operations Management
Management Science
Short name: Operations Management

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Organisational unit: Group

Section for Oceans and Arctic
National Institute of Aquatic Resources
Short name: Section for Oceans and Arctic

Addresses
Type of address: Postal address
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Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
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Organisational unit: Section

Pre-Pilot Plant
Novo Nordisk Foundation Center for Biosustainability
Short name: Pre-Pilot Plant

Addresses
Type of address: Postal address
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Postal code: 2970
City: Hørsholm
Country: Denmark

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Web addresses
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E-mails
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Organisational unit: Section

Research Group for Molecular and Reproductive Toxicology
National Food Institute
Short name: Research Group for Molecular and Reproductive Toxicology

Addresses
Type of address: Postal address
Street: Mørkhøj Bygade 19
Postal code: DK-2860
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Country: Denmark

Phone numbers
E-mails
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Organisational unit: Section

T-cells & Molecular Mechanisms
Division of Immunology & Vaccinology
Short name: T-cells & Molecular Mechanisms

Addresses
Type of address: Postal address
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City: Frederiksberg C
Country: Denmark

Phone numbers
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Fax: (+45) 35 88 60 01

Web addresses
Web: http://www.vet.dtu.dk/English.aspx

E-mails
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Organisational unit: Group

T-cells & Cancer
Division of Immunology & Vaccinology
Short name: T-cells & Cancer

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Mucosal Immunology
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Short name: Mucosal Immunology

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Web addresses
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Organisational unit: Group

Innate Immunology
Division of Immunology & Vaccinology
Short name: Innate Immunology

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Organisational unit: Group

Adaptive Immunology
Division of Immunology & Vaccinology
Short name: Adaptive Immunology

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Organisational unit: Group

Virology
Division for Diagnostics & Scientific Advice
Short name: Virology

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Organisational unit: Group

Serology
Division for Diagnostics & Scientific Advice
Short name: Serology

Addresses
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Street: Bülowsvej 27
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Organisational unit: Group

PCR
Division for Diagnostics & Scientific Advice
Short name: PCR

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Organisational unit: Group

Pathology
Division for Diagnostics & Scientific Advice
Short name: Pathology

Addresses
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Street: Bülowsvej 27
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Fish Diseases
Division for Diagnostics & Scientific Advice
Short name: Fish Diseases

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Epidemiology
Division for Diagnostics & Scientific Advice
Short name: Epidemiology

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Organisational unit: Group
Diagnostic & Development
Division for Diagnostics & Scientific Advice
Short name: Diagnostic & Development

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Bacteriology & Parasitology
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Division of Immunology & Vaccinology
National Veterinary Institute
Short name: Division of Immunology & Vaccinology

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Division for Diagnostics & Scientific Advice
National Veterinary Institute
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Organisational unit: Section

DTU Multi Assay Core
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Short name: DTU Multi Assay Core

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DTU Metabolomics Core
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Short name: DTU Metabolomics Core

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Organisational unit: Section

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Short name: Systems Metabolic Lipidology

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Regulatory Genomics
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Short name: Regulatory Genomics

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Organisational unit: Section

Protein Glycoscience and Biotechnology
Department of Biotechnology and Biomedicine
Short name: Protein Glycoscience and Biotechnology

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Organisational unit: Section

Photosynthetic Cell Factories
Department of Biotechnology and Biomedicine
Short name: Photosynthetic Cell Factories

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Organisational unit: Section

Network Engineering of Eukaryotic Cell factories
Department of Biotechnology and Biomedicine
Short name: Network Engineering of Eukaryotic Cell factories

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Organisational unit: Section

Natural Product Discovery
Department of Biotechnology and Biomedicine
Short name: Natural Product Discovery

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Organisational unit: Section

Metabolic Signaling and Regulation
Department of Biotechnology and Biomedicine
Short name: Metabolic Signaling and Regulation

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Organisational unit: Section

Infection Microbiology
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Short name: Infection Microbiology

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Organisational unit: Section

Fungal Degradation
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Short name: Fungal Degradation

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Organisational unit: Section

Fungal Chemodiversity
Department of Biotechnology and Biomedicine
Short name: Fungal Chemodiversity

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Organisational unit: Section

Eukaryotic Molecular Cell Biology
Department of Biotechnology and Biomedicine
Short name: Eukaryotic Molecular Cell Biology

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Type of address: Postal address
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E-mails
Enzyme and Protein Chemistry
Department of Biotechnology and Biomedicine
Short name: Enzyme and Protein Chemistry

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Disease Systems Immunology
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Short name: Disease Systems Immunology

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Short name: Biosynthetic Pathway Engineering

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Organisational unit: Section

Bacterial Ecophysiology and Biotechnology
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Organisational unit: Section

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Short name: Administration

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Organisational unit: Section

Integrative Systems Biology
Department of Bio and Health Informatics
Short name: Integrative Systems Biology

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E-mail: info@cbs.dtu.dk
Organisational unit: Section

Immunoinformatics and Machine Learning
Department of Bio and Health Informatics
Short name: Immunoinformatics and Machine Learning

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Organisational unit: Section

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Web addresses
Genomic Epidemiology
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Short name: Genomic Epidemiology

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Organisational unit: Section

Cancer Genomics
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Short name: Cancer Genomics

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Organisational unit: Section
Disease Intelligence and Molecular Evolution
Department of Bio and Health Informatics
Short name: Disease Intelligence and Molecular Evolution

Addresses
Type of address: Postal address
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Web addresses
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Organisational unit: Section

Ultrafast Infrared and Terahertz Science
Department of Photonics Engineering
Short name: Ultrafast Infrared and Terahertz Science

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Short name: Transport DTU

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Short name: Transport Modelling

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E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Group

**Bacterial Signal Transduction**
Research Groups
Short name: Bacterial Signal Transduction

**Addresses**
Type of address: Postal address
Street: Kogle Alle 6
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City: Hørsholm
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**Phone numbers**
Phone: +45 45 25 80 00
Web addresses
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E-mails
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Organisational unit: Group

KT Consortium
Department of Chemical and Biochemical Engineering
Short name: KT Consortium

Addresses
Type of address: Postal address
Street: Søltofts Plads
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Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 45 25 28 00
Fax: +45 45 88 22 58
Organisational unit: Section

PILOT PLANT
Department of Chemical and Biochemical Engineering
Short name: PILOT PLANT

Addresses
Type of address: Postal address
Street: Søltofts Plads
Building: Building 229
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 45 25 28 00
Fax: +45 45 88 22 58
Organisational unit: Section

Microbial Evolution and Synthetic Biology
Research Groups
Short name: Microbial Evolution and Synthetic Biology

Addresses
Type of address: Postal address
Street: Kogle Alle 6
Postal code: 2970
City: Hørsholm
Country: Denmark

**Organic Energy Materials**
Department of Energy Conversion and Storage
Short name: Organic Energy Materials

**Addresses**
Type of address: Postal address
Street: Frederiksborgvej 399
Building: Building 775
Postal code: DK-4000
City: Roskilde
Country: Denmark

**Phone numbers**
Phone: +45 4677 5800
Fax: +45 4677 5858

**Web addresses**
Web: http://www.energy.dtu.dk/english

**E-mails**
E-mail: info@energy.dtu.dk
Organisational unit: Section

**Systems Environmental Microbiology**
Research Groups
Short name: Systems Environmental Microbiology

**Addresses**
Type of address: Postal address
Street: Kemitorvet
Building: Building 220
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: +45 45 25 80 00

Web addresses
Web: http://www.biosustain.dtu.dk/english

E-mails
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Organisational unit: Group

Biomass Conversion and Bioprocess Technology
Research Groups
Short name: Biomass Conversion and Bioprocess Technology

Addresses
Type of address: Postal address
Street: Kemitorvet
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Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 45 25 80 00

Web addresses
Web: http://www.biosustain.dtu.dk/english

E-mails
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Group

Quantitative Modeling of Cell Metabolism
Novo Nordisk Foundation Center for Biosustainability
Short name: Quantitative Modeling of Cell Metabolism

Addresses
Type of address: Postal address
Street: Kogle Alle 6
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City: Hørsholm
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E-mails
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Section

**Department of Bio and Health Informatics**
Technical University of Denmark
Short name: DTU Bioinformatics

**Addresses**
Type of address: Postal address
Street: Kemitorvet
Building: Building 208
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
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**Web addresses**
Web: http://www.bioinformatics.dtu.dk/english

**E-mails**
E-mail: info@cbs.dtu.dk

**Organisation profile**
**Head of Department:** Professor Haja Kadarmideen
The department carries out research within bio and health informatics and develops computational methods and machine learning systems as well as systems for artificial intelligence (AI) which uses biological understanding and other scientific background information to expand the biological knowledge and create tools for tomorrow’s biotech industry and the health sector. The department is based around the national supercomputer Computerome—a key tool for generating and analysing big data for the department’s researchers and partners in Denmark and abroad.

Organisational unit: Department

---

**Department of Biotechnology and Biomedicine**
Technical University of Denmark
Short name: DTU Bioengineering

**Addresses**
Type of address: Postal address
Street: Søltofts Plads
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Postal code: DK-2800
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Fax: (+45) 4588 4922

**Web addresses**
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**E-mails**
Organisation profile
Head of Department: Bjarke Bak Christensen
The department addresses important social and scientific challenges within biotechnology, biomedicine, food technology and human health. The department engages in both basic research and applied research and employs a number of basic tools from biochemistry, biophysics, chemistry, cell biology, immunology, microbial ecology and physiology, bioinformatics, and bioengineering. DTU Bioengineering has four research platforms that provide state-of-the-art research within fermentation and high-throughput screening, metabolomics-based mass spectrometry, proteomics, and genomics.
Organisational unit: Department

Infection Microbiology
Research Groups
Short name: Infection Microbiology

Phone numbers
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E-mails
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Organisational unit: Group

Innovation and Research-based consultancy
National Space Institute
Short name: Innovation and Research-based consultancy

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Phone numbers
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Web addresses
Web: http://www.space.dtu.dk/english/Research/Research_divisions/Innovation-and-consultancy

E-mails
E-mail: office@space.dtu.dk

Organisation profile
The IFR division works on public sector consultancy projects that benefit Danish business and society. These include Polar DTU and the DTU Space Dronecenter.

Polar DTU
Polar DTU - a one stop shop for DTU's Polar activities
DTU has more than 100 years of experience in Arctic and Antarctic conditions.
All this experience is being combined in Polar DTU, an interdisciplinary centre that brings together the knowledge and research from departments and centres from all over DTU.
The purpose of the centre is to make all of DTU’s research, know-how and new technologies available to private enterprises and international authorities operating in the Polar Regions. This guarantees the provision of research-based services that draw on the interdisciplinary knowledge of the departments involved. In addition to this, Polar DTU can call on a strong international network of research institutions.

Contact person: Sune Nordentoft Lauritsen
Organisational unit: Section

Support functions
National Space Institute
Short name: Support functions

Addresses
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Country: Denmark

Phone numbers
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E-mails
E-mail: office@space.dtu.dk

Astrophysics and Atmospheric Physics
National Space Institute
Short name: Astrophysics and Atmospheric Physics

Addresses
Type of address: Postal address
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Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Type of address: Postal address
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City: Kgs. Lyngby
Country: Denmark

Phone numbers
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Web: http://www.space.dtu.dk/english/Research/Research_divisions/Astrophysics
E-mails
E-mail: office@space.dtu.dk

Organisation profile
Head of division Allan Hornstrup
The Division for Astrophysics and Astomospheric Physics studies physical processes in stars, galaxies, galaxy clusters and the universe as a whole, as well as doing research and development of instrumentation that can be used to observe these objects. We also study our atmosphere, where Earth meets space, and the complex interactions that occur there. Research is concentrated in a handful of main areas:

Large-scale structure of the universe, including the creation of galaxies and galaxy clusters.

Physical conditions and processes in and around neutron stars and black holes.

Mapping the Cosmic Microwave Background to understand the Big Bang and early evolution of the Universe

Electrical Discharges in the Upper Atmosphere

Cosmic rays and their effect on the Earth's weather and climate

Space weather and monitoring solar activity

Technological development of x-ray and gamma-ray detectors and instruments, as well as mechanical structures for use in space-based observatories.

Organisational unit: Section

Research Group for Microbial Food Safety
National Food Institute
Short name: Research Group for Microbial Food Safety

Addresses
Type of address: Postal address
Street: Mørkhøj Bygade 19
Postal code: DK-2860
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Country: Denmark

Phone numbers
Phone: (+45) 72 34 70 00

E-mails
E-mail: food@food.dtu.dk
Organisational unit: Section

Research Group for Analytical and Predictive Microbiology
National Food Institute
Short name: Research Group for Analytical and Predictive Microbiology

Addresses
Type of address: Postal address
Street: Mørkhøj Bygade 19
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Country: Denmark
For DHRTC, the aim is to demonstrate how the recovery of oil and gas can be increased in the Danish part of the North Sea on a commercial basis. Specifically, the aim is to demonstrate an increased recovery of oil and gas of 100 MMBOE in 2020. The centre’s work involves close collaboration between research and engineering on coming up with innovative solutions to the challenges in the North Sea. This is done through research and partnerships across universities and in interaction with the industry.

Permanently based at DTU, the team is already busily involved in the collaboration with the partner institutions, University of Copenhagen, Aarhus University, Aalborg University and the Geological Survey of Greenland and Denmark (GEUS). In addition, efforts are being made to establish cross-disciplinary partnerships with foreign institutions and private enterprises with a view to conducting research into and developing new technologies for recovering a larger share of Denmark’s oil and gas from the North Sea.

DHRTC is a global centre from which researchers can access important data and knowledge about the oil fields, and our research programmes are orchestrated from the centre in partnership with research groups from our partner institutions. The aim of DHRTC at DTU is to ensure that all our efforts are finely coordinated across fields of research and professions, across departmental boundaries and—in the long term—across national borders as well.

The aim over the next four years is to identify and develop a number of large demonstration models, each addressing a potential for increasing Danish oil recovery and demonstrating how much oil and gas the models will be able to deliver.

Bacterial Synthetic Biology

Novo Nordisk Foundation Center for Biosustainability
Short name: Bacterial Synthetic Biology

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**E-mails**
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Section

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**Engineering Systems**
Department of Management Engineering
Short name: Engineering Systems

**Addresses**
Type of address: Postal address
Street: Produktionstorvet
Building: 424
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

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**Web addresses**
Web: http://www.es.man.dtu.dk/

**E-mails**
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Organisational unit: Section

---

**Implementation and Performance Management**
Management Science
Short name: Implementation and Performance Management

**Addresses**
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E-mails
E-mail: info@man.dtu.dk
Organisational unit: Group

Atmospheric Environment
Department of Environmental Engineering
Short name: Atmospheric Environment

Addresses
Type of address: Postal address
Street: Bygningstorvet
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Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 1600

Web addresses
Web: http://www.env.dtu.dk/english

E-mails
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Organisational unit: Section

Water Technologies
Department of Environmental Engineering
Short name: Water Technologies

Addresses
Type of address: Postal address
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Country: Denmark

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Organisational unit: Section

Urban Water Systems
Department of Environmental Engineering
Short name: Urban Water Systems

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Management and administration
Department of Wind Energy
Short name: Management and administration

Addresses
Type of address: Postal address
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Country: Denmark
Organisational unit: Section

Resource Assessment Modelling
Department of Wind Energy
Short name: Resource Assessment Modelling

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Type of address: Postal address
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Web addresses
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E-mails
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Organisational unit: Section

Wind turbine loads & control
Department of Wind Energy
Short name: Wind turbine loads & control

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Type of address: Postal address
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E-mails
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Organisational unit: Section

Meteorology & Remote Sensing
Department of Wind Energy
Short name: Meteorology & Remote Sensing

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E-mails
E-mail: info@vindenergi.dtu.dk
Organisational unit: Section

Wind Turbine Structures and Component Design
Department of Wind Energy
Short name: Wind Turbine Structures and Component Design

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Type of address: Postal address
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Organisational unit: Section

Integration & Planning
Department of Wind Energy
Short name: Integration & Planning

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E-mail: info@vindenergi.dtu.dk
Organisational unit: Section

Aerodynamic design
Department of Wind Energy
Short name: Aerodynamic design

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E-mails
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Organisational unit: Section

Center for Hyperpolarization in Magnetic Resonance

Center
Short name: HYPERMAG

Addresses
Type of address: Postal address
Street: Ørsteds Plads
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Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3909

Web addresses
Web: http://www.hypermag.elektro.dtu.dk/

Organisation profile
The HYPERMAG Centre of Excellence funded by the Danish National Research Foundation is focused on development and application of hyperpolarization techniques that enhance NMR and MRI signals by orders of magnitude.

Organisational unit: Center

Center for Magnetic Resonance

Department of Electrical Engineering
Short name: Center for Magnetic Resonance

Addresses
Type of address: Postal address
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City: Kgs. Lyngby
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Phone numbers
Phone: (+45) 4027 2775

Web addresses
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E-mails
E-mail: jhar@elektro.dtu.dk

Organisation profile
Head of section: Professor Jan Henrik Ardenkjær-Larsen
Organisational unit: Section

Formal Methods
Department of Applied Mathematics and Computer Science
Short name: Formal Methods

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Type of address: Postal address
Street: Matematiktorvet
Building: 303 B
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 3031

Web addresses
Web: http://www.compute.dtu.dk/English.aspx

E-mails
E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Hanne Riis Nielson
Organisational unit: Section

Cyber Security
Department of Applied Mathematics and Computer Science
Short name: Cyber Security

Addresses
Type of address: Postal address
Street: Matematiktorvet
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Postal code: DK-2800
City: Kgs. Lyngby
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**Phone numbers**
Phone: +45 4525 3031

**Web addresses**
Web: http://www.compute.dtu.dk/English.aspx

**E-mails**
E-mail: compute@compute.dtu.dk

**Organisation profile**
Head of section: Christian Probst
Organisational unit: Section

---

**Copenhagen Center for Health Technology**
Center
Short name: Cachet

**Phone numbers**
Phone: +45 45 25 53 11

**Web addresses**
Web: http://www.cachet.dk/

**E-mails**
E-mail: jakba@dtu.dk
Organisational unit: Center

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**Centre of Excellence for Silicon Photonics for Optical Communications**
Center
Short name: Centre of Excellence for Silicon Photonics for Optical Communications
Main Research Area: Technical/natural sciences

**Web addresses**
Web: http://www.spoc.dtu.dk/

**Organisation profile**
The SPOC centre addresses the optical communication infrastructures of the future. In an interdisciplinary approach, relying on physics, nonlinear optics, photonic communication technologies, information theory and advanced coding, we aim to find solutions to the major challenges of communication systems.

The energy consumption and potential capacity

We will explore optical signal processing in photonic wires for orders of magnitude improvements in bandwidth and energy efficiency, and conduct fundamental research on optical silicon chips and integration technologies addressing ultimate-capacity optical communications.

We will explore spatially distributed data transmission for orders of magnitude higher data densities. We will explore information and coding theory for optimum spectral-efficiency. We will explore frequency comb generation for light sources and for unprecedented ultra-precise optical clocks and frequency references, and we will explore future quantum communication channels with impenetrable security.

Organisational unit: Center

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**Yeast Metabolic Engineering**
Research Groups
Short name: Yeast Metabolic Engineering
Main Research Area: Technical/natural sciences
**Addresses**

Type of address: Postal address
Street: Kemitorvet
Building: Building 220
Postal code: 2800
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**Phone numbers**
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**Web addresses**
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**E-mails**
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Group

---

**Bacterial Cell Factory Optimization**

Research Groups
Short name: Bacterial Cell Factory Optimization
Main Research Area: Technical/natural sciences

**Addresses**
Type of address: Postal address
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**E-mails**
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Organisational unit: Group

---

**Global Econometric Modeling**

Research Groups
Short name: Global Econometric Modeling
Main Research Area: Technical/natural sciences

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Organisational unit: Group

Yeast Cell Factories
Novo Nordisk Foundation Center for Biosustainability
Short name: Yeast Cell Factories
Main Research Area: Technical/natural sciences

Addresses
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E-mails
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Organisation profile
Organisational unit: Section

Center for Intelligent Drug Delivery and Sensing Using Microcontainers and Nanomechanics
Center
Short name: IDUN

Web addresses
Web: http://www.idun.dtu.dk/

Organisation profile
IDUN is a center of excellence funded by the Danish National Research Foundation and the Villum Foundation. The center is divided into two parts: IDUN Drug and IDUN Sensor, focusing on the main research areas of drug delivery and nanomechanical sensors. With the two main research areas in close contact at the center, IDUN will be exploring the great synergy between sensor development and search for new pharmaceutical tools and materials. IDUN Sensor will, through IDUN Drug, get access to unique polymers and biomolecules. Through IDUN Sensor, IDUN Drug will be able to characterize, among others, small
volumes of materials and molecules, which are today not possible to analyze by any standard technologies. By maintaining and strengthening the coupling between sensor and material development, IDUN create a unique international environment with high creativity across scientific borders.

Center Leader: Professor Anja Boisen
Scientific Coordinator: Anna Julie Rasmussen
Organisational unit: Center

Nanocarbon
Department of Micro- and Nanotechnology
Short name: Nanocarbon

Addresses
Type of address: Postal address
Street: Ørsteds Plads
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Web addresses
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk

Organisational unit: Section

Biomaterial Microsystems
Department of Micro- and Nanotechnology
Short name: Biomaterial Microsystems

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Type of address: Postal address
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Web addresses
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Section for Indoor Climate and Building Physics
Department of Civil Engineering
Short name: Section for Indoor Climate and Building Physics

Addresses
Type of address: Postal address
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Country: Denmark

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Phone: +45 4588 3282

Web addresses
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Section for Building Energy
Department of Civil Engineering
Short name: Section for Building Energy

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E-mails
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Organisational unit: Section

ARTEK, Section for Arctic Engineering and Sustainable Solutions
Department of Civil Engineering
Short name: ARTEK, Section for Arctic Engineering and Sustainable Solutions

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Organisational unit: Section

Research Group for Gut Microbiology and Immunology
National Food Institute
Short name: Research Group for Gut Microbiology and Immunology

Addresses
Type of address: Postal address
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E-mails
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Organisational unit: Section

Research Group for Nano-Bio Science
National Food Institute
Short name: Research Group for Nano-Bio Science

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Type of address: Postal address
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Phone numbers
Research Group for Microbial Biotechnology and Biorefining
National Food Institute
Short name: Research Group for Microbial Biotechnology and Biorefining

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Organisational unit: Section

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National Food Institute
Short name: Research Group for Analytical Food Chemistry

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E-mails
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Organisational unit: Section

Research Group for Risk-Benefit
National Food Institute
Short name: Research Group for Risk-Benefit

Addresses
Type of address: Postal address
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Country: Denmark

Phone numbers
Phone: (+45) 35 88 70 00

E-mails
E-mail: food@food.dtu.dk
Organisational unit: Section

Research Group for Genomic Epidemiology
National Food Institute
Short name: Research Group for Genomic Epidemiology

Addresses
Type of address: Postal address
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Phone numbers
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E-mails
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Organisational unit: Section

Research Group for Food Production Engineering
National Food Institute
Short name: Research Group for Food Production Engineering

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Organisational unit: Section

Research Group for Bioactives – Analysis and Application
National Food Institute
Short name: Research Group for Bioactives – Analysis and Application
Addresses
Type of address: Postal address
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Organisational unit: Section

Division of Risk Assessment and Nutrition
National Food Institute
Short name: Division of Risk Assessment and Nutrition

Addresses
Type of address: Postal address
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E-mails
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Organisational unit: Section

Center for Nanomedicine and Theranostics
Center
Short name: DTU Nanomedicine

Web addresses
Web: http://www.nanomedicine.dtu.dk/

Organisation profile
Head of Centre:
Thomas L. Andresen, Viceinstitutdirektør, Professor
Technical University of Denmark
Department of Micro- and Nanotechnology
Produktionstorvet
Building 423, room 106
2800 Kgs. Lyngby
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E-mail: thomas.andresen@nanotech.dtu.dk
Organisational unit: Center
Center for Polar Activities

Center
Short name: Polar DTU
Main Research Area: Technical/natural sciences

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 328
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Organisation profile
DTU has more than 100 years of experience in Arctic and Antarctic conditions. All this experience is being combined in Polar DTU, an interdisciplinary centre that brings together the knowledge and research from departments and centres from all over DTU.

The purpose of the centre is to make all of DTU’s research, know-how and new technologies available to private enterprises and international authorities operating in the Polar Regions. This guarantees the provision of research-based services that draw on the interdisciplinary knowledge of the departments involved. In addition to this, Polar DTU can call on a strong international network of research institutions.

Organisational unit: Center

Center for Nanostructured Graphene

Center
Short name: Center for Nanostructured Graphene

Web addresses
Web: http://www.cng.dtu.dk/

Organisation profile
CNG – Center for Nanostructured Graphene – is funded by the Danish National Research Foundation (Danmarks Grundforskningsfond), with a 54 mill. Dkr grant, starting in February 2012 and running initially for six years.

The main partners in CNG are DTU Fotonik, DTU Fysik, DTU CEN, Aalborg University and DTU Nanotech which is the main stake-holder. The center is headed by Prof. Antti-Pekka Jauho from DTU Nanotech. The grant from DNRF finances the research carried out by ten junior researchers (ph.d students and post-docs). In addition, many other researchers on the DTU campus are independently financed stake-holders in CNG’s research program, so that all in all more than sixty persons contribute towards CNG’s goals (Oct 2013).

CNG focuses on basic research, but all its research projects have long-time perspectives which the aim at applications. CNG’s research profile has a broad range: it involves polymer chemists, nanofabrication specialists, experimental physicists, and condensed matter theorists using a wide palette of analytical and numerical techniques, including large scale simulations of nanodevices, ab initio electronic structure calculations, and theory of quantum transport.

Organisational unit: Center

Centre for Product Modelling

Center
Short name: CPM
Main Research Area: Technical/natural sciences

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Country: Denmark

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Web addresses
Web: http://www.productmodels.com/

E-mails
E-mail: csc@man.dtu.dk

Organisation profile
The Centre for Product Modelling (CPM) is a Danish research institution under the Department of Management Engineering at the Technical University of Denmark. CPM is dedicated to researching automation of routine engineering tasks in the product specification process. CPM has recently developed and tested a methodology for designing and implementing product models, which are used as product specification systems in configuration process.
By incorporating knowledge of e.g. the structure, function, production, transport, assembly, use etc. of a product into a product model, this knowledge is made accessible to other organisational units and is more easily shared with other units, both in-house and in relation to the customers and suppliers of the company.
CPM is also the driving force behind the Association for Product Modelling in Denmark, which is an association of firms interested in - and using - product models.
Product models can for example be used for:
The configuration of products in connection with sales/biddings. Either directly via the Internet or by using laptop PC's.
The automatic generating of product documentation for the purpose of company purchasing and production in connection with the executing of orders.
The support of detailed construction of custom-fit product variants.
In the Centre for Industrialisation of Engineering we focus on the construction of product models that can support the sales process.
This task comprises procedures for:
Analysing and developing already existing business processes for sales, biddings, and adaptation/documentation of products for individual customer needs.
Analysing the possibilities offered by product models and their incorporation in the overall business strategy of the company.
Constructing and implementing product models.
The procedures are developed by combining competencies within the business/strategic area, techniques for modelling and implementation of product models and organisational conditions.

Organisational unit: Center

UNEP DTU Partnership
Department of Management Engineering
Short name: UNEP DTU Partnership
Main Research Area: Technical/natural sciences

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Type of address: Postal address
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Web addresses
Web: http://www.unepdtu.org/

Organisation profile
UNEP DTU Partnership is a leading international research and advisory institution on energy, climate and sustainable development. As a United Nations Environment Programme (UNEP) Collaborating Centre, it is an integral part of UNEP’s Division of Technology, Industry and Economics (DTIE) and an active participant in both the planning and implementation of UNEP’s Climate Change Strategy and Energy Programme.

UNEP DTU Partnership comprises two Centres: Centre on Energy, Climate and Sustainable Development, and the Copenhagen Centre on Energy Efficiency. It is located at the UN City in Copenhagen, Denmark and is organisationally a part of the Department of Management Engineering at the Technical University of Denmark.

Centre for Playware
Automation and Control

Center
Short name: Centre for Playware
Organisational unit: Group

Centre for IT-Intelligent Energy Systems in Cities

Center
Short name: CITIES
Main Research Area: Technical/natural sciences

Addresses
Type of address: Postal address
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Country: Denmark

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Phone: +45 2275 6975

Web addresses
Web: http://smart-cities-centre.org/

Organisation profile
Centre for IT-Intelligent Energy System in Cities - CITIES
A wide range of research activities have arisen to support the Danish target of a 100% renewable energy system by 2050. Projects focused on individual aspects of the energy system, such as zero emissions buildings or intelligent power systems provide valuable insight, that facilitates flexibility throughout the energy system. CITIES will address this deficiency by establishing an integrated research centre covering all aspects of the energy system, including gas, power, district heating/cooling and biomass, and most importantly methods to forecast, control and optimize their interactions through the use of advanced ICT solutions.

The high densities of population, energy consumption, and energy and communications networks in cities offer the greatest potential for flexibility at the last cost, and the fact that cities account for 80% of global energy consumption and emissions [1] make the urban environment an ideal setting for energy systems integration research. CITIES will pioneer research into fully integrated city energy systems, building short-term operational models that feed longer term planning models, considering the spatiotemporal variations, interactions, dynamics and stochastics in the energy system. Low level models of system components will inform higher-level aggregate models employed in market and control framework design. The leading position of European academia and industry and the rapidly growing market for smart energy solutions indicates substantial scope for increased competitiveness and job creation within this field. CITIES will, in
collaboration with its industrial and academic partners, conduct research with a view to developing tools for the implementation of integrated energy system solutions.

Objectives of the centre project

The societal objective of CITIES is to establish a realistic and concrete pathway to ultimately achieving independence from fossil fuels by harnessing the latent flexibility of the energy system through intelligence, integration, and planning, focusing on city environments and working towards both 2020 and 2050 European [2,3] and Danish goals [4].

The scientific objective of CITIES is to develop methodologies and ICT solutions for the analysis, operation and development of fully integrated urban energy systems. A holistic research approach will be developed that aims to provide solutions at all levels between the appliance and the total system, and at all time scales between operations and planning.

The educational objective of CITIES is to educate a generation of academics, engineers and entrepreneurs on the value and necessity of considering the energy system as a whole in a collaborative, integrated context, rather than focusing on a single facet or component.

The commercial perspective of CITIES is to identify and establish solutions which can form the background for commercial opportunities within the smart cities environment, and to support the development of these and other smart cities demonstration projects, including through a range of decision support tools to be developed as a result of our research efforts.

Key Outcomes of the CITIES

Operational methods and scenarios for energy systems integration and management, paving scenarios towards a fossil free future

Component level, modular and aggregate models of energy supply, consumption, and transmission, suitable for simulation, control and optimisation frameworks

Market structures that support energy systems integration

Modular forecasting and control models for a variety of energy system components, including their interactions

Integration of short-term operational models in models for long-term planning.

Models of energy consumption and production accounting for their stochastic and dynamic features.

Methods for controlling energy consumption and demand side management.

CITIES is aiming at being a leading knowledge centre for Smart Cities development and operational tools.

Synergies with existing and new smart cities development projects

Centre Management

Henrik Madsen Center Manager henrik.madsen@smart-cities-centre.org
Alfred Heller Deputy Center Manager alfred.heller@smart-cities-centre.org
Ivan T. Herrmann Chief Operation Manager ivan.t.herrmann@smart-cities-centre.org

Organisational unit: Center

Electricity markets and energy analytics

Center for Electric Power and Energy

Short name: Electricity markets and energy analytics
Main Research Area: Technical/natural sciences

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Phone numbers

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E-mails
E-mail: cet@elektro.dtu.dk

Organisation profile
Design of electricity mar­kets and socio-economic optimization methods for market analysis and design, including power-system planning and operation analysis considering market aspects. Modeling and simulation of markets are central parts of the area, with emphasis on the stochastic and dynamic features of renewable energy generation and new patterns in electricity consumption at various temporal and spatial scales.
Organisational unit: Group

Electric power systems
Center for Electric Power and Energy
Short name: Electric power systems
Main Research Area: Technical/natural sciences

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Organisation profile
Electric power systems engineering especially addressing the impact of large-scale integration of renewable energy sources on power system stability, security and reliability.
Organisational unit: Group

Energy system operation and management
Center for Electric Power and Energy
Short name: Energy system operation and management
Main Research Area: Technical/natural sciences

Addresses
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Organisation profile
Analyses, modeling and development of new solutions for management and operation of future active power distribution systems with high penetration of RES and controllable DER and for integration of large-scale controllable DER into the power system.
Organisational unit: Group

Energy resources, services and control
Center for Electric Power and Energy
Short name: Energy resources, services and control
Main Research Area: Technical/natural sciences

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Organisation profile
Distributed energy resource technologies addressing in particular their properties, their local coordination, their grid integration and the services they provide for the system.
Organisational unit: Group

Electric power components
Center for Electric Power and Energy
Short name: Electric power components
Main Research Area: Technical/natural sciences

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**Organisation profile**
Analyses, modeling, design and development of electric components based on electromagnetic and circuit theory, physical aspects, materials etc. Furthermore, the area covers the interaction between components and sub-systems.
Organisational unit: Group

**CAPEC-PROCESS**
Department of Chemical and Biochemical Engineering

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Organisational unit: Section

**Research Groups**
Novo Nordisk Foundation Center for Biosustainability
Short name: Research Groups

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Organisational unit: Section

Synthetic Biology Tools for Yeast
Novo Nordisk Foundation Center for Biosustainability
Short name: SBTY
Main Research Area: Technical/natural sciences

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Organisational unit: Section

New Bioactive Compounds
Novo Nordisk Foundation Center for Biosustainability
Short name: NBC
Main Research Area: Technical/natural sciences

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Organisational unit: Section
CHO Core
Novo Nordisk Foundation Center for Biosustainability
Short name: CFB
Main Research Area: Technical/natural sciences

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Organisational unit: Section

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Novo Nordisk Foundation Center for Biosustainability
Short name: iLoop
Main Research Area: Technical/natural sciences

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Organisational unit: Section

Afdelingen for Produktionsudvikling
Center for Bachelor of Engineering Studies
Short name: AFPU

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Organisational unit: Section

**Afdelingen for Forretningsudvikling**
Center for Bachelor of Engineering Studies
Short name: AFFU

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Organisational unit: Section

**Afdelingen for Maskin og Design**
Center for Bachelor of Engineering Studies
Short name: AFMD

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Organisational unit: Section

**Afdelingen for Informatik**
Center for Bachelor of Engineering Studies
Short name: AFIN

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Organisational unit: Section

**Afdelingen for El-teknologi**
Center for Bachelor of Engineering Studies
Short name: AFET

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Organisational unit: Section
Afdelingen for Byggeri og Infrastruktur
Center for Bachelor of Engineering Studies
Short name: AFBI

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Organisational unit: Section

Quantum Optics Devices
Department of Photonics Engineering
Short name: Quantum Optics Devices

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Organisational unit: Section

DTU National Laboratory for Sustainable Energy
Center
Short name: DTU National Laboratory

Web addresses
Organisation profile
DTU National Laboratory for Sustainable Energy is headed by Vice Dean Hans Hvidtfeldt Larsen, who is referring to the Provost. An advisory group has been formed, consisting of the heads of departments from DTU Civil Engineering

DTU Electro

DTU Energy Conversion

DTU Chemical Engineering

DTU Management Engineering

DTU Mechanical Engineering

DTU Wind Energy

The advisory group advises the DTU National Laboratory for Sustainable Energy and ensures consistency between DTU National Laboratory for Sustainable Energy's activities and the involved institutions' activities.

Organisational unit: Center

Center for Bachelor of Engineering Studies
Technical University of Denmark
Short name: DTU Diplom

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Organisational unit: Department

Geomagnetism
National Space Institute
Short name: Geomagnetism
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Type of address: Postal address
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Web addresses
Web: http://www.space.dtu.dk/english/Research/Research_divisions/Geomagnetism

E-mails
E-mail: office@space.dtu.dk

Organisation profile
Head of division: Nils Olsen

The Division of Geomagnetism uses magnetic field measurements from satellites and ground stations to explore the Earth. The magnetic field provides valuable knowledge about Earth's interior, because its slow variations reflect movements of the material in the core, rapid field changes depend on the electrical conductivity of the upper mantle, and because small wavelengths features can be used to map crustal structures. The magnetic field can also be used to explore the upper atmosphere (ionosphere and magnetosphere) and its connection with processes on the Sun.

The division's activities primarily focus on:
- measuring Earth's magnetic field
- investigating the underlying physical processes producing the field and its variations
- developing methods to separate the different contributions from the core, crust and the Earth's upper atmosphere (ionosphere and magnetosphere)
- developing and calibrating instruments to measure the Earth's magnetic field, which are used in observatories around the world.

Organisational unit: Section

Big Data 2 Knowledge
Novo Nordisk Foundation Center for Biosustainability
Short name: BD2K

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Organisation profile
This Section aims at developing and constructing Chinese Hamster Ovary (CHO) cell genome-scale in-silico models and their applications.
Organisational unit: Section

CHO Cell Line Engineering and Design
Novo Nordisk Foundation Center for Biosustainability
Short name: CLED

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Web: http://www.biosustain.dtu.dk/english

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Organisational unit: Section

Software Engineering
Department of Applied Mathematics and Computer Science
Short name: Software Engineering

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Organisation profile
Head of section: Ekkart Kindler
Organisational unit: Section

Scientific Computing
Department of Applied Mathematics and Computer Science
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Organisation profile
Head of section: Professor Michael Pedersen
Organisational unit: Section

Statistics and Data Analysis
Department of Applied Mathematics and Computer Science
Short name: Statistics and Data Analysis

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E-mails
E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Bjarne Kjær Ersbøll
Organisational unit: Section

Cognitive Systems
Department of Applied Mathematics and Computer Science
Short name: Cognitive Systems

Addresses
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E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Lars Kai Hansen
Organisational unit: Section

Embedded Systems Engineering
Department of Applied Mathematics and Computer Science
Short name: Embedded Systems Engineering

Addresses
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E-mails
E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Jan Madsen
Organisational unit: Section

Dynamical Systems
Department of Applied Mathematics and Computer Science
Short name: Dynamical Systems

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E-mails
E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Henrik Madsen
Organisational unit: Section

Image Analysis & Computer Graphics
Department of Applied Mathematics and Computer Science
Short name: Image Analysis & Computer Graphics

Addresses
Type of address: Postal address
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Phone numbers
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Web addresses
Web: http://www.compute.dtu.dk/English.aspx

E-mails

Organisation profile
Head of section: Anders Bjorholm Dahl
Organisational unit: Section

Algorithms and Logic
Department of Applied Mathematics and Computer Science
Short name: Algorithms and Logic

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E-mails
E-mail: compute@compute.dtu.dk

Organisation profile
Head of section: Professor Paul Fischer
Organisational unit: Section

Mathematics
Department of Applied Mathematics and Computer Science
Short name: Mathematics

Addresses
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**Organisation profile**
Head of section: Professor Morten Brøns

Organisational unit: Section

**Department of Applied Mathematics and Computer Science**
Technical University of Denmark
Short name: DTU Compute

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**E-mails**
E-mail: compute@compute.dtu.dk

**Organisation profile**
**Management**
Head of department: Bjarne Kjær Ersbøll

Deputy head of department: Professor Jan Madsen

DTU Informatics and DTU Mathematics merged on 1 January 2013.

**The new name is**
DTU Compute
Institut for Matematik og Computer Science
Organisational unit: Department

**Danish Shellfish Centre**
National Institute of Aquatic Resources
Short name: Danish Shellfish Center

**Addresses**
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark
Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organisation profile
Headed by Jens Kjerulf Pedersen.
Organisational unit: Section

Section for Maritime Service
National Institute of Aquatic Resources
Short name: Section for Maritime Service

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

Organisation profile
Headed by Hans-Erik Mahnfeldt.
Organisational unit: Section

Section for Administration and Service
National Institute of Aquatic Resources
Short name: Section for Administration and Service

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333
Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organisation profile
Headed by Hanne Moos.
Organisational unit: Section

Public Sector Consultancy
National Institute of Aquatic Resources
Short name: Public Sector Consultancy

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organisation profile
Headed by Jørgen Dalskov.
Organisational unit: Section

Centre for Ocean Life
National Institute of Aquatic Resources
Short name: Centre for Ocean Life

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organisation profile
Headed by Torkel Gissel Nielsen.
Organisational unit: Section

Section for Monitoring and Data
National Institute of Aquatic Resources
Short name: Section for Monitoring and Data

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organisation profile
Headed by Kai Wieland and Marie Storr-Paulsen.
Organisational unit: Section

Section for Marine Living Resources
National Institute of Aquatic Resources
Short name: Section for Marine Living Resources

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx
Section for Ecosystem based Marine Management

National Institute of Aquatic Resources
Short name: Section for Ecosystem based Marine Management

Addresses
Type of address: Postal address
Street: Jægersborg Allé 1
Postal code: DK-2920
City: Charlottenlund
Country: Denmark

Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

Web addresses
Web: http://www.aqua.dtu.dk/English.aspx

E-mails
E-mail: aqua@aqua.dtu.dk

Organization profile
Headed by Henrik Mosegaard.
Organisational unit: Section

Center for Electric Power and Energy

Department of Electrical Engineering
Center
Short name: CEE

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 325
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3500

Web addresses
Web: http://www.cee.elektro.dtu.dk/
E-mails
E-mail: cet@elektro.dtu.dk

Organisation profile
Center for Electric Power and Energy (CEE) addresses one of the major challenges of our modern society: the
development of a reliable, cost-efficient and sustainable energy system based on renewable energy. CEE supports the
ongoing transformation of the energy system by developing a range of new technologies and solutions as well as the
underlying new knowledge, theory and methods.
CEE is a center under DTU Electrical Engineering.
The center holds competences within:

Electric components
Electric power systems
Electricity markets and energy analytics
Energy resources, control and services
Energy system operation and management

Organisational unit: Section

Neutrons and X-rays for Materials Physics
Department of Physics
Short name: NEXMAP

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 309
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 3208
Fax: +45 4593 1669

Web addresses
Web: http://www.fys.dtu.dk/English/

E-mails
E-mail: info@fysik.dtu.dk
Organisational unit: Section

Plasma Physics and Fusion Energy
Department of Physics
Short name: PPFE

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 309
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: +45 4525 3344

**Web addresses**
Web: http://www.fys.dtu.dk/English/

**E-mails**
E-mail: info@fysik.dtu.dk
Organisational unit: Section

**Theoretical Nanotechnology**
Department of Micro- and Nanotechnology
Short name: Theoretical Nanotechnology

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

**Web addresses**
Web: http://www.nanotech.dtu.dk/english
Web: http://www.nanotech.dtu.dk/english/Research-mega/Research-groups/TNT

**E-mails**
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

**Theoretical Nanoelectronics**
Department of Micro- and Nanotechnology
Short name: Theoretical Nanoelectronics

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Theoretical Biophysics
Department of Micro- and Nanotechnology
Short name: Theoretical Biophysics

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/TNE.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Surface Engineering
Department of Micro- and Nanotechnology
Short name: Surface Engineering

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

**Web addresses**
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Surface_Engineering.aspx
Web: http://www.nanotech.dtu.dk/english

**E-mails**
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

**Stochastic Systems and Signals**
Department of Micro- and Nanotechnology
Short name: Stochastic Systems and Signals

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

**Web addresses**
Web: http://www.nanotech.dtu.dk/english

**E-mails**
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

**Silicon Microtechnology**
Department of Micro- and Nanotechnology
Short name: Silicon Microtechnology

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762
Web addresses
Web: http://www.nanotech.dtu.dk/english
Web: http://www.nanotech.dtu.dk/Research-mega/Forskningsgrupper/Silicon_Microtechnology

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Self-Organized Nanoporous Materials
Department of Micro- and Nanotechnology
Short name: Self-Organized Nanoporous Materials

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Nanoporous_Materials.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Polymer Microsystems for Medical Diagnostics
Department of Micro- and Nanotechnology
Short name: Polymer Microsystems for Medical Diagnostics

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/PolyMeDiag.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

**Polymer Micro & Nano Engineering**
Department of Micro- and Nanotechnology
Short name: POLYMIC

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

**Web addresses**
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

**Polymer Microsystems for Cell Processing**
Department of Micro- and Nanotechnology
Short name: Polymer Microsystems for Cell Processing

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

**Web addresses**
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/POLYCELL.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Optofluidics
Department of Micro- and Nanotechnology
Short name: Optofluidics

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Nanoprobes
Department of Micro- and Nanotechnology
Short name: Nanoprobes

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/english

E-mails
Nano Bio Integrated Systems
Department of Micro- and Nanotechnology
Short name: NaBIS

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/NaBIS.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Molecular Windows
Department of Micro- and Nanotechnology
Short name: Molecular Windows

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/MoWin.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
MEMS-AppliedSensors
Department of Micro- and Nanotechnology
Short name: MEMS-AppliedSensors

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk

Organisational unit: Section

Magnetic Systems
Department of Micro- and Nanotechnology
Short name: Magnetic Systems

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Magnetic_Systems.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk

Organisational unit: Section
Fluidic Array Systems and Technology
Department of Micro- and Nanotechnology
Short name: Fluidic Array Systems and Technology

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://orbit.dtu.dk/en/organisations/fluidic-array-systems-and-technology%2845fb2d52-df1c-4645-9cf4-d7255c6b6547%29.html
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Colloids and Biological Interfaces
Department of Micro- and Nanotechnology
Short name: Colloids and Biological Interfaces

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Colloids_and_Biological_Interfaces.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section
BioLabChip
Department of Micro- and Nanotechnology
Short name: BioLabChip

Addresses
Type of address: Postal address
Street: Ørsted Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Biolabchip.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Bioanalytics
Department of Micro- and Nanotechnology
Short name: Bioanalytics

Addresses
Type of address: Postal address
Street: Ørsted Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/Bioanalytics.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section
Amphiphilic Polymers in Biological Sensing
Department of Micro- and Nanotechnology
Short name: Amphiphilic Polymers in Biological Sensing

Addresses
Type of address: Postal address
Street: Ørsted Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 5700
Fax: (+45) 4588 7762

Web addresses
Web: http://www.nanotech.dtu.dk/Research/Research%20groups/PolSens.aspx
Web: http://www.nanotech.dtu.dk/english

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Section

Technology and Innovation Management
Department of Management Engineering
Short name: Technology and Innovation Management

Addresses
Type of address: Postal address
Street: Produktionstorvet
Building: 424
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 4708
Fax: +45 4525 4800

Web addresses
Web: http://www.man.dtu.dk/English/Research.aspx

E-mails
E-mail: info@man.dtu.dk

Organisation profile
The Department aims to develop and utilise new knowledge about Systems Analysis, Production and Service Management, Management Science, and Technology and Innovation Management to benefit society. In that way the Department contributes to knowledge based growth and welfare with focus on competitiveness, productivity, sustainability,
innovation and entrepreneurship.
Research at DTU Management Engineering is carried out in close cooperation with international research environments and industrial and public partners.
The Department’s research is divided in five divisions and one centre with different disciplinary perspectives:

System Analysis

Production and Service Management

Quantitative Sustainability Assessment

Management Science

Technology and Innovation Management

UNEP Risø Centre

Organisational unit: Section

Management Science
Department of Management Engineering
Short name: Management Science

Addresses
Type of address: Postal address
Street: Produktionstorvet
Building: 424
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 4708
Fax: +45 4525 4800

Web addresses
Web: http://www.man.dtu.dk/English/Research.aspx

E-mails
E-mail: info@man.dtu.dk

Organisation profile
The Department aims to develop and utilise new knowledge about Systems Analysis, Production and Service Management, Management Science, and Technology and Innovation Management to benefit society. In that way the Department contributes to knowledge based growth and welfare with focus on competitiveness, productivity, sustainability, innovation and entrepreneurship.
Research at DTU Management Engineering is carried out in close cooperation with international research environments and industrial and public partners.
The Department’s research is divided in five divisions and one centre with different disciplinary perspectives:

System Analysis
Production and Service Management

Quantitative Sustainability Assessment

Management Science

Technology and Innovation Management

UNEP Risø Centre

Organisational unit: Section

Fluid Mechanics, Coastal and Maritime Engineering
Department of Mechanical Engineering
Short name: FVM

Addresses
Type of address: Postal address
Street: Niels Koppels Alleé
Building: 403, 006
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 45 25 13 84
Fax: (+45) 45 93 14 75

Web addresses
Web: http://www.fvm.mek.dtu.dk/English.aspx

E-mails
E-mail: info@mek.dtu.dk

Organisation profile

Education
The Section and the Department offers a Msc in Coastal and Maritime Engineering and other attractive study opportunities, for instance the study to be a Naval Architect.

Research
The research of the section is concentrated on the following subjects:
Stochastic wave loads on ships and offshore structures
Parametric roll of ships
Propeller flows
Wave dynamics

Collision and grounding

Risk models for navigational safety

Monitoring and decision support

Composite materials

Structural mechanics

Sediment transport

Liquifaction

Scour and scour protection

Business
The Section collaborates with national as well as international companies, institutions and individuals, and the section is continuously adjusting and extending this collaboration network.
Organisational unit: Section

BioChemical Engineering
Center
Short name: BioChemical Engineering

Addresses
Type of address: Postal address
Country: Denmark
Organisational unit: Center

Center for Nanoteknologi
Center
Short name: Center for Nanoteknologi

Addresses
Type of address: Postal address
Country: Denmark

Phone numbers
Phone: +45 4525 3239

Web addresses
Web: http://www.nano.dtu.dk/English.aspx
E-mails
E-mail: hempler@fysik.dtu.dk
Organisational unit: Center

Center for Fluid Dynamics
Center
Short name: Center for Fluid Dynamics

Addresses
Type of address: Postal address
Country: Denmark

Phone numbers
Phone: +45 4525 3310

Web addresses
Web: http://www.fluid.dtu.dk/

E-mails
E-mail: tbohr@fysik.dtu.dk

Organisation profile
Center for Fluid Dynamics at DTU, Fluid•DTU, is a collaboration between five departments at the Technical University of Denmark all working on different aspects of fluid dynamics. All aspects of fluid dynamics are of interest to Fluid•DTU. Some of the main research themes are: Instability, bifurcation and chaos, drops, bubbles and interfaces, vortex dynamics, fluid dynamics at small length scales, and dynamics of complex fluids.
Organisational unit: Center

Centre for Physical Electronics
Center
Short name: Centre for Physical Electronics

Addresses
Type of address: Postal address
Country: Denmark
Organisational unit: Center

Center for Individual Nanoparticle Functionality
Center
Short name: CINF

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 312
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Web addresses
Web: http://www.fysik.dtu.dk/english/Research/CINF
**Center for Fast Ultrasound Imaging**

Center
Short name: Center for Fast Ultrasound Imaging

**Addresses**
Type of address: Postal address
Country: Denmark

**Center for Energy Resources Engineering**

Center
Short name: Center for Energy Resources Engineering

**Addresses**
Type of address: Postal address
Country: Denmark

Web addresses
Web: http://www.cere.dtu.dk/
Organisational unit: Center

**Centre for Applied Hearing Research**

Center
Short name: Centre for Applied Hearing Research

**Addresses**
Type of address: Postal address
Street: Ørsteds plads
Building: 352
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 3932

Web addresses
Web: http://www.dtu.dk/centre/cahr/English.aspx

E-mails
E-mail: cvo@elektro.dtu.dk

**Organisation profile**
CAHR is a centre at DTU Electrical Engineering with the purpose of promoting research and education within the field of acoustic communication with emphasis on:

Signal processing principles in the human auditory system

Perceptual consequences of hearing impairment
Arctic Technology Centre, Artek, was formally established in late summer 2000 to teach and provide in-service training for Greenlandic and Danish students and businessmen in Arctic technology. Artek also runs courses and seminars about Arctic conditions and contributes to research into Arctic technology. As a forerunner to the centre, various courses have been held about Arctic conditions over the last couple of years.

The Arctic Technology Centre is a collaboration between Sanaartormerik Ilinniarfik (the Building and Construction School) in Sisimiut and the Technical University of Denmark in Lyngby.

In financial terms, Arctic Technology Centre is considered a DTU department with all the ensuing potential sources of revenue dependent on the number of students. The funding comes from the Greenland Government and from private foundations.
Organisational unit: Center

**Technical University of Denmark**
Short name: Technical University of Denmark
Main Research Area: Technical/natural sciences

**Addresses**
Type of address: Postal address
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Secretariat, IT**
Department of Energy Conversion and Storage
Short name: Secretariat, IT

**Addresses**
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 775
Postal code: DK-4000
City: Roskilde
Country: Denmark

**Phone numbers**
Phone: +45 4677 5800
Fax: +45 4677 5858

**Web addresses**
Web: http://www.energyconversion.dtu.dk/?sc_lang=en
Web: http://www.energy.dtu.dk/english

**E-mails**
E-mail: info@energy.dtu.dk

Organisational unit: Section

**Safety & Infrastructure**
Department of Energy Conversion and Storage
Short name: Safety & Infrastructure

**Addresses**
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 775
Postal code: DK-4000
City: Roskilde
Country: Denmark
Phone numbers
Phone: +45 4677 5800
Fax: +45 4677 5858

Web addresses
Web: http://www.energyconversion.dtu.dk/?sc_lang=en
Web: http://www.energy.dtu.dk/english

E-mails
E-mail: info@energy.dtu.dk
Organisational unit: Section

Proton conductors
Department of Energy Conversion and Storage
Short name: Proton conductors

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 775
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 4677 5800
Fax: +45 4677 5858

Web addresses
Web: http://www.energyconversion.dtu.dk/?sc_lang=en
Web: http://www.energy.dtu.dk/english

E-mails
E-mail: info@energy.dtu.dk
Organisational unit: Section

Mixed Conductors
Department of Energy Conversion and Storage
Short name: Mixed Conductors

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 775
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
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Web addresses
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Organisational unit: Section

Management
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Short name: Management

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Imaging and Structural Analysis
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Organisational unit: Section

**Fundamental Electrochemistry**
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**Electrofunctional materials**
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Short name: DTU Energy

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Organisational unit: Department

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Programmable Phase Optics
Department of Photonics Engineering
Short name: Programmable Phase Optics

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Engineering Design and Product Development
Department of Mechanical Engineering
Short name: Engineering Design and Product Development

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Department of Civil Engineering
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Organisational unit: Section

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Department of Civil Engineering
Short name: Section for Geotechnics and Geology

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Web: http://www.geotechnics.byg.dtu.dk/

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Section for Structural Engineering

Department of Civil Engineering
Short name: Section for Structural Engineering

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Organisation profile
Welcome to the Section for Structural Engineering!
This site shall inspire you to discover the versatile facets of Structural Engineering at the Department of Civil Engineering. Our activities in research, teaching and collaboration inside and outside Denmark are carried by the personal effort and ambition of our international academic and technical staff. The areas comprise traditional structural engineering disciplines such as materials and designing in concrete, steel and wood, but also specialised areas such as dynamic behaviour under wind and earthquake loading and risk assessment in the perspective of significantly changing environmental boundary conditions.
Our research activities do not stand alone but reflect on our teaching either in courses or through project work. We are proud on the tradition to include our students early on in leading-edge research.
Feel invited to learn more about Structural Engineering at DTU-Byg.
Yours sincerely
Jeppe Jönsson
Section Head

Physical and Biophysical Chemistry

Department of Chemistry
Short name: Physical and Biophysical Chemistry

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Centre for Catalysis and Sustainable Chemistry
Department of Chemistry
Short name: CSC

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Organisational unit: Section

Radiation Physics
Center for Nuclear Technologies
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Radioecology and Tracer Studies

Center for Nuclear Technologies
Short name: Radioecology and Tracer Studies

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Web addresses
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Web: http://www.nutech.dtu.dk/english/Research/Radiation_physics

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Organisational unit: Section

The Hevesy Laboratory

Center for Nuclear Technologies
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Web addresses
Center for Nuclear Technologies

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Organisation profile
Center for Nuclear Technologies is Denmark's national competency center for nuclear technology. With roots in research in the peaceful use of nuclear power, DTU Nutech works with the applications of ionizing radiation and radioactive substances for the benefit of society.

The Hevesy Laboratory develops radiotracers for the diagnosing of particularly cancer. The center's expertise in radiation dosimetry is used both for radiation sterilization, for medical purposes and for dating. A third field of application is the studies and analysis of radioactive isotopes in the environment, in food and in materials. The center also monitors radioactive substances and radiation levels in the Danish environment, contributing to the national nuclear emergency.

DTU Nutech is organised into three departments:

The Hevesy Laboratory
Radiation Physics
Radioecology
The Center includes the former Risø Workshop, which, among other things, produces a so-called Risø TL/OSL Reader. The instrument is developed at Risø DTU and can be used for dating soil and sediments, for controlling any radiation of food and for retrospective dosimetry.

Center for Nuclear Technologies is located at DTU Risø Campus in Roskilde.

Director: Jens-Peter Lynov
Organisational unit: Department
Systems Analysis
Department of Management Engineering
Short name: Systems Analysis

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Organisational unit: Section

Fluid Mechanics
Department of Wind Energy
Short name: Fluid Mechanics

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Organisation profile
The research of the Fluid Mechanics Section focuses on aerodynamics, aero-acoustics and aero-elasticity of wind turbines and turbulence in wind farms. The fundamental research in fluid mechanics includes laminarturbulent transition, flow control, aero-acoustics, rotating flows, turbulence, and convection and heat transfer in boundary layers. In recent years, most activities have concentrated on research in offshore wind energy such as the development of computing codes for predicting the combined loadings from wind and waves, and wake interaction within wind farms.
The research is carried out using Computational Fluid Dynamics (CFD), employing in-house developed as well as commercial computing codes, and experimental fluid mechanics (EFD), employing mostly optical methods, such as Laser Doppler Anemometry (LDA), Particle Image Velocimetry (PIV) and related techniques.

Organisational unit: Section

Materials science and characterization

Department of Wind Energy
Short name: Materials science and characterization

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Organisational unit: Section

Composites and Materials Mechanics

Department of Wind Energy
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Organisation profile
The research of Composites and Materials Mechanics is particularly relevant for the development of blades for very large offshore wind turbines where weight savings are of great importance.
The section focuses on development of new fiber composite materials and on increasing the knowledge and description of existing composite materials, particularly with respect to strength, fatigue, durability and damage tolerant behavior. The field includes manufacturing and processing, characterisation of microstructures, modelling of materials, and characterisation of mechanical properties, non-destructive evaluation and structural health monitoring.

Key research areas are new composite materials (e.g. biomass-based composites and hybrid composites), process technology, compression, fatigue and fracture, adhesive joints, micromechanical testing with in-situ observations (utilising the electron microscope expertise of the Materials Science and Characterisation Section), micromechanical modelling as well as the development of new advanced mechanical testing methods and structural health monitoring.

The research is applicable for the lifetime of a wind turbine rotor blade, from development of concept, design, manufacturing, quality control, operation and maintenance to decommission.

The section has a laboratory for the manufacturing of fibre composites (materials, test specimens, prototypes) and a DANAK accredited laboratory for mechanical characterisation. The reorganisation is expected to lead to new research projects in the area of connecting macroscale and structural scale modelling and testing. Another new possible area for expansion is the manufacturing of prototype wind turbine blades (e.g. smart blades incorporating shape changing composite structures and embedded sensors) in close collaboration with the sections Wind Turbines and Aeroelastic Design.

Thus, the section contributes to the focus area “Light and Strong Materials” and provides knowhow to other focus areas such as structural design and safety and aeroelastic design.

Organisational unit: Section

Test and Measurements

Department of Wind Energy
Short name: Test and Measurements

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Organisation profile

Evaluation of models and theories based on experimental work is fundamental to research in wind energy. Experimental methodologies are used both to test and evaluate theoretical models and to verify the performance of wind turbine designs and wind turbine component designs. This is a vital element in the understanding and quantification of the uncertainty in wind energy projects, and consequently an essential aspect in securing a competitive advantage of the wind energy industry.

The research of this section is aimed at the development of instrumentation and new methods for experimental determination of wind turbine characteristics, including test methods for the wind turbine industry. Special efforts are focused on remote sensing techniques using wind lidars. A major effort is the development of a new European research infrastructure called WindScanner. It is a laser-based remote sensing instrument for measurements of wind and turbulence in three dimensions around huge wind turbines.

The section also represents expertise in organising and conducting field meteorological measurements (wind resources and siting, boundary-layer meteorology, turbulence and aero-elastic design), and in providing instruments as well as data systems and data management for the Department of Wind Energy and external clients in the global wind industry. Research results are applied in international standards and also in national and international projects.

The Test and Measurement Section operates two test stations for large wind turbines at Høvsøre and Østerild on Jutland’s west coast. These areas have excellent conditions with high wind speeds and flat terrain. Therefore, we can verify both performance and the wind turbine design bases for all operating conditions relevant to large wind turbines up to 250 meters tall.
Department of Wind Energy
Technical University of Denmark
Short name: DTU Wind Energy

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Organisation profile

Research
The Danish wind energy research environment is internationally recognized as being in the forefront of wind energy technology, and The Technical University of Denmark (DTU) has provided a major part of the wind energy research in Denmark.

Education
Based on intensive efforts in research, development, innovation and transfer of knowledge, the Technical University of Denmark (DTU) has for many years contributed to Denmark's leading position in wind energy.

Innovation
An important part of the work at DTU Wind Energy is that research results are disseminated and used by Danish industry in order to support and develop the entire sector. DTU Wind Energy contributes to industry and society's knowledge about wind energy and related areas through innovation, technology transfer and research based services.

DTU Danchip
Technical University of Denmark
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Organisation profile
DANCHIP is a national facility for producing components based on micro- and nanostructured materials for the use of research and industrial products.

Research and Education
The Unique possibilities for growing materials, micro- and nanostructuring and characterisation in DANCHIP today is an integrated part of several research- and educational projects.

Industry at DANCHIP
As a partner of industry at DANCHIP you have the possibility to follow your ideas to create new products and at the same time carry out the first production in a quality secure environment.

Organisational unit: Department

Novo Nordisk Foundation Center for Biosustainability
Technical University of Denmark
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Novo Nordisk Foundation Center for Biosustainability
Short name: NRiSB

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Organisational unit: Section

---

**High Throughput Molecular Bioscience**
Novo Nordisk Foundation Center for Biosustainability
Short name: HTMB

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**Institute Management**
National Institute of Aquatic Resources
Short name: Institute Management

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Organisation profile
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Organisational unit: Section

Research Secretariat
National Institute of Aquatic Resources
Short name: Research Secretariat

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Organisational unit: Section

Section for Aquaculture
National Institute of Aquatic Resources
Short name: Section for Aquaculture

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**Organisation profile**
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Organisational unit: Section

**Section for Freshwater Fisheries Ecology**
National Institute of Aquatic Resources
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Short name: DTU Aqua

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Short name: Office for Innovation & Sector Services

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Organisational unit: Section

Office for Research and Relations
Administration
Short name: Office for Research and Relations

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IT Service
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Short name: Administration

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City: Kgs. Lyngby
Country: Denmark
Organisational unit: Department

Campus Service
Administration
Short name: Campus Service

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E-mails
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E-mail: cas-drift@adm.dtu.dk
E-mail: reception@dtu.dk
Organisational unit: Section

Rector's office
Administration
Short name: Rector's office

Addresses
Type of address: Postal address
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City: Kgs. Lyngby
Country: Denmark
Organisational unit: Section

Office for Finance and Accounting
Administration
Short name: Finance Division

Addresses
Type of address: Postal address
Street: Lundtoftevej 150
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Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark
Organisational unit: Section

Office for Study Programmes and Student Affairs
Administration
Short name: Study Division

Addresses
Type of address: Postal address
Street: Anker Engelunds Vej 1
Organisation profile
The Office for Study Programmes and Student Affairs supports the DTU management in connection with education policy issues. The Office is responsible for DTU’s study administration systems, providing information and guidance to students and providing services to DTU’s departments.
We work with:

Admissions
Grant and loan applications
Course and examination enrolment
Student guidance
Industrial projects and traineeships
Student exchange agreements
Scholarships
International MSc programmes
Continuing and further education
PhD programme
Collaborations with upper secondary schools
Secretariat services for Curriculum Board
External examiners secretariat
Dispensations and credits
Educational statistics and analyses
New educational programmes
For programme and study-related questions, please feel free to contact us.
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E-mails
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Organisation profile
The Office for HR (AHR) is responsible for recruitment, staff and manager development, employee administration and the working environment at DTU.
Organisational unit: Section

Office for Law and Contracts
Administration
Short name: Office for Law and Contracts

Addresses
Type of address: Postal address
Street: Anker Engelunds Vej 1
Building: 101A
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark
Organisational unit: Section

Water Resources Engineering
Department of Environmental Engineering
Short name: Water Resource Engineering

Addresses
Type of address: Postal address
Street: Bygningstorvet
Building: 115
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 1600
Fax: +45 4593 2850

E-mails
E-mail: info@env.dtu.dk

Organisation profile
The section was formed October 2011.
The section publication list is complete from 2014, for earlier years see the publication list for the department or for the individual researcher.
The Section Water Resources Engineering is developing a diverse range of science-based tools for management, protection and remediation of freshwater in its different settings like surface water in rivers and lakes and groundwater in
shallow and deep aquifers.

Learn more about the section

Head of Section: Professor Poul L. Bjerg

Organisational unit: Section

CERE – Center for Energy Ressources Engineering

Department of Chemical and Biochemical Engineering
Short name: CERE – Center for Energy Ressources Engineering

Addresses
Type of address: Postal address
Street: Søltofts Plads
Building: 229
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 2859
Fax: (+45) 45882258

Web addresses
Web: http://www.cere.dtu.dk/

E-mails
E-mail: gk@kt.dtu.dk

Organisation profile
Center for Energy Resource Engineering (CERE) is a continuation of Center for Phase Equilibria and Separation Processes (IVC-SEP).
CERE’s main activities lie within applied thermodynamics, interface- and colloidal chemistry, geology and scientific computing. The center combines a range of disciplines of great importance in oil and gas production, CO2 capture and storage (CCS) and geothermal power. Additionally the center carries out generic research within the fundamental disciplines.
Research results are applied to processes and products in the industry with a main focus on energy, environment and advanced materials. A substantial part of the center’s research has been dedicated to Enhanced Oil Recovery (EOR).
Head of CERE per 1.7.2014 is professor Georgios M. Kontogeorgis

Organisational unit: Section

Department of Physics
Technical University of Denmark
Short name: DTU Physics

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 311
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 3344
Fax: +45 4593 2399

Web addresses
Web: http://www.fysik.dtu.dk/

E-mails
E-mail: info@fysik.dtu.dk

Organisation profile
DTU Physics
DTU Physics focuses on research areas within modern physics with significant basic scientific challenges and also has clear application perspectives. The Department research ranges from studies of materials at the atomic scale, quantum physics and biophysics to the storage and use of renewable energy sources such as solar, wind and nuclear fusion.
Organisational unit: Department

Electronics
Department of Electrical Engineering
Short name: Electronics

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 349 ground floor
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3603

Web addresses
Web: http://www.dtu.dk/centre/ele/English.aspx

E-mails
E-mail: hw@elektro.dtu.dk

Organisation profile

Education
The Electronics Group puts special pride into linking theory and modelling to the experimental test & validation of results. Through this a highly innovative environment has been established, educating engineering students at BEng, BSc, MSc and PhD levels.

Research
Our expertise in solving energy efficiency related problems and presenting innovative solutions is what makes the Electronics Group an essential part of numerous research projects in collaboration with industry.
The Electronics Group is the most innovative group at the department with 13 out of 37 inventions since year 2000.

Organisational unit: Section

Department of Electrical Engineering
Technical University of Denmark
Short name: DTU Electrical Engineering

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 349
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3800
Fax: (+45) 4593 1634

Web addresses
Web: http://www.elektro.dtu.dk/

E-mails
E-mail: info@elektro.dtu.dk

Organisation profile

Education
At DTU Electrical Engineering we educate engineers within electrical engineering technologies as well as biomedical engineering.
We offer studies at BEng-, BSc-, MSc- and PhD levels. The department also participates in international master programmes.

Research
We conduct research within biomedical engineering, antenna and microwave technology, robot technology, power- and physical electronics, eletric technology, acoustic environment, audiology, and electro-acoustics.

A large part of our research is carried out in close interaction with industry and Research institutions in Denmark and abroad.
Organisational unit: Department

Department of Civil Engineering
Technical University of Denmark
Short name: DTU Civil Engineering

Addresses
Type of address: Postal address
Street: Brovej
Building: 118
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 1700
Fax: +45 4588 3282

Web addresses
Web: http://www.byg.dtu.dk/
Web: http://www.byg.dtu.dk/english
E-mails
E-mail: byg@byg.dtu.dk
Organisational unit: Department

Coding and Visual Communication
Department of Photonics Engineering
Short name: Coding and Visual Communication

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/CommunicationTechnology/Coding.aspx
Web: http://www.fotonik.dtu.dk/english

E-mails
E-mail: info@fotonik.dtu.dk
Organisational unit: Section

Fiber Sensors and Supercontinuum Generation
Department of Photonics Engineering
Short name: Fiber Sensors and Supercontinuum Generation

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/DynamicPhotonics/FiberSensors.aspx
Web: http://www.fotonik.dtu.dk/English

E-mails
Structured Electromagnetic Materials
Department of Photonics Engineering
Short name: Structured Electromagnetic Materials

Addresses
Type of address: Postal address
Street: Ørsted Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/english

E-mails
E-mail: info@fotonik.dtu.dk

DTU Executive School of Business
Technical University of Denmark
Short name: DTU Business

Addresses
Type of address: Postal address
Street: Produktionstorvet
Building: 421
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 6111
Fax: (+45) 4588 4337

Web addresses
Web: http://www.business.dtu.dk/

E-mails
E-mail: info@business.dtu.dk
Organisational unit: Department

**Acoustic Technology**
Department of Electrical Engineering
Short name: Acoustic Technology

**Addresses**
Type of address: Postal address
Street: Elektrovej
Building: 352
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 3949

**Web addresses**
Web: http://www.dtu.dk/centre/act/English.aspx

**E-mails**
E-mail: fja@elektro.dtu.dk

Organisational unit: Section

**Biomedical Engineering**
Department of Electrical Engineering
Short name: Biomedical Engineering

**Addresses**
Type of address: Postal address
Street: Elektrovej
Building: 349
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 5832

**Web addresses**
Web: http://www.dtu.dk/centre/bme/English.aspx

**E-mails**
E-mail: jw@elektro.dtu.dk

Organisation profile

**Education**
Our group is responsible for the Medicine & Technology program, jointly offered by DTU and the University of Copenhagen, which aims at educating students to participate internationally in biomedical research and product development at universities, hospitals and in the industry.
Research
The Biomedical Engineering group researches in:

Ultrasound - hardware related implementation as well as imaging, flow estimation and ultrasound techniques

Magnetic Resonance Imaging

Signal Processing

Biomechanics and Biomedicine

Organisational unit: Section

Automation and Control
Department of Electrical Engineering
Short name: Automation and Control

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 326
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3576

Web addresses
Web: http://www.elektro.dtu.dk/english

E-mails
E-mail: or@elektro.dtu.dk

Organisational unit: Section

Hearing Systems
Department of Electrical Engineering
Short name: Hearing Systems

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 352
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark
Phone numbers
Phone: (+45) 4525 3932

Web addresses
Web: http://www.elektro.dtu.dk/english
Organisational unit: Section

Electromagnetic Systems
Department of Electrical Engineering
Short name: Electromagnetic Systems

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 348
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 3867
Fax: (+45) 4593 1634

Web addresses
Web: http://www.elektro.dtu.dk/english

E-mails
E-mail: info@elektro.dtu.dk
Organisational unit: Section

Quantitative Sustainability Assessment
Department of Management Engineering
Short name: Quantitative Sustainability Assessment

Addresses
Type of address: Postal address
Street: Produktionstorvet
Building: 424
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 4708
Fax: +45 4525 4800

Web addresses
Web: http://www.qsa.man.dtu.dk/English.aspx
Web: http://www.man.dtu.dk/english
E-mails
E-mail: info@man.dtu.dk
Organisational unit: Section

Department of Micro- and Nanotechnology
Technical University of Denmark
Short name: DTU Nanotech

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 345 Ø
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 45 25 57 00
Fax: +45 45 88 77 62

Web addresses
Web: http://www.nanotech.dtu.dk/English.aspx

E-mails
E-mail: info@nanotech.dtu.dk
Organisational unit: Department

National Food Institute
Technical University of Denmark
Short name: DTU Food

Addresses
Type of address: Postal address
Street: Mørkhøj Bygade 19
Postal code: DK-2860
City: Søborg
Country: Denmark

Phone numbers
Phone: +45 35 88 70 00

Web addresses
Web: http://www.food.dtu.dk/English.aspx

E-mails
E-mail: food@food.dtu.dk

Organisation profile
The National Food Institute researches and communicates sustainable and value-adding solutions in the areas of food and health for the benefit of society and industry. The institute’s tasks are carried out in a cross-disciplinary cooperation between the disciplines of nutrition, chemistry, toxicology, microbiology, epidemiology and technology.
The vision is that the National Food Institute creates welfare for the future through research into food and health. The institute makes a difference by producing knowledge and technical solutions which:

- prevent disease and promote health
- make it possible to feed the growing population
- develop a sustainable food production

Contact
Director of Institute Christine Nellemann
Organisational unit: Department

**Technical Information Center of Denmark**
Technical University of Denmark
Short name: DTU Library

**Addresses**
Type of address: Postal address
Street: Anker Engelunds Vej 1
Building: 101 D
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: + 45 4525 7200
Fax: + 45 4588 3040

**Web addresses**
Web: http://www.dtic.dtu.dk/English.aspx
Web: http://www.bibliotek.dtu.dk/English.aspx

**E-mails**
E-mail: bibliotek@dtu.dk

**Organisation profile**
DTU Library, the Technical Information Center of Denmark, contributes to the realization of DTU’s mission and vision by securing an optimum information infrastructure and information service for both scientific and administrative processes and contributes to the study environment at DTU as well as interaction with our surroundings. This challenge comprises the entire information cycle of DTU in which information from all over the world is put at the disposal of and communicated to the users of DTU the information must be applied and utilized so that - together with other scientific activities at DTU – it results in new information being generated by the university this new information is collected, documented, filed and preserved and made public and disseminated via efficient and credit awarding channels after which the impact of the research can be analyzed and estimated.

**Mission**
The mission of DTU Library can thus be translated into five focus areas:

- Securing DTU’s scientific information provision and communication.
Collecting, documenting and filing the information produced by DTU including the appertaining cases and projects.
Contributing to the publication and dissemination of DTU’s scientific information and carry out analyses of the output and impact of the university.
Contributing to an inspiring and attractive study environment at DTU.
Contributing to DTU’s interaction with the surroundings and public image.
The mission and the four user segments of DTU Library are illustrated below.
Organisational unit: Department

**Department of Chemistry**
Technical University of Denmark
Short name: DTU Chemistry

**Addresses**
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

**Web addresses**
Web: http://www.kemi.dtu.dk/English.aspx

**E-mails**
E-mail: isc@kemi.dtu.dk
Organisational unit: Department

**X-ray Crystallography**
Department of Chemistry
Short name: X-ray Crystallography

**Addresses**
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

**Web addresses**
Organic Chemistry
Department of Chemistry
Short name: Organic Chemistry

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

Web addresses
Web: http://www.organic.kemi.dtu.dk/
Web: http://www.kemi.dtu.dk/English.aspx

E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section

Energy and Materials
Department of Chemistry
Short name: Energy and Materials

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

Web addresses
Web: http://www.kemi.dtu.dk/
E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section

NanoChemistry
Department of Chemistry
Short name: NanoChemistry

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

Web addresses
Web: http://www.nanokemi.kemi.dtu.dk/
Web: http://www.kemi.dtu.dk/English.aspx

E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section

Metalloprotein Chemistry and Engineering
Department of Chemistry
Short name: Metalloprotein Chemistry and Engineering

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136

Web addresses
Web: http://www.mpc.kemi.dtu.dk/
Web: http://www.kemi.dtu.dk/english
E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section

Analytical Chemistry
Department of Chemistry
Short name: Analytical Chemistry
Addresses
Type of address: Postal address
Street: Kemitorvet
Building: 207
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark
Phone numbers
Phone: (+45) 4525 2419
Fax: (+45) 4588 3136
Web addresses
Web: http://www.analytisk.kemi.dtu.dk/
Web: http://www.kemi.dtu.dk/english/Research/PhysicalChemistry/Analytisk-Kemi
E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section

Management
National Veterinary Institute
Short name: Management
Addresses
Type of address: Postal address
Street: Bülowsvej 27
Postal code: DK-1870
City: Frederiksberg C
Country: Denmark
Phone numbers
Phone: (+45) 35 88 60 00
Fax: (+45) 35 88 60 01
Web addresses
Web: http://www.vet.dtu.dk/English/About_us/Organisation/Management.aspx
Web: http://www.vet.dtu.dk/english
E-mails
E-mail: vet@vet.dtu.dk
Quantum Physics and Information Technology
Department of Physics
Short name: QPIT

Addresses
Type of address: Postal address
Street: Fysikvej
Building: 309
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 3208
Fax: +45 4593 1669

Web addresses
Web: http://www.fys.dtu.dk/English/Research1/Quantum_physics.aspx
Web: http://www.fys.dtu.dk/English/

E-mails
E-mail: info@fysik.dtu.dk

National Veterinary Institute
Technical University of Denmark
Short name: DTU Veterinary

Addresses
Type of address: Postal address
Street: Bülowsvej 27
Postal code: DK-1870
City: Frederiksberg C
Country: Denmark

Phone numbers
Phone: +45 35 88 60 00
Fax: +45 35 88 60 01

Web addresses
Web: http://www.vet.dtu.dk/English.aspx

E-mails
E-mail: vet@vet.dtu.dk

Organisation profile
National Veterinary Institute DTU conducts research in infectious diseases in livestock and makes diagnoses in diseased animals. We give advice to public authorities and cooperate with them on the Danish veterinary contingency plan. We are reference laboratory in a number of areas.
National Veterinary Institute DTU encompasses all infectious animal diseases in farm livestock and companion animals. Our main focus is on notifiable diseases, as well as other serious infectious diseases that affect farm livestock. Our tasks concern:

Research

Innovation

Diagnostics

Surveillance

Consultancy

Risk assessment

Production of vaccines and sera

Dissemination of knowledge and education

**We do research in diseases**
The Institute does research in methods to detect, control and prevent infectious animal diseases. Our research activities cover a wide field, i.e. developmental and application-oriented projects as well as basic research. The institute also hosts an international research centre for veterinary epidemiology, International EpiLab.

**We diagnose**
Veterinarians can submit samples from diseased animals to be diagnosed. For notifiable diseases the diagnosis is free, whereas we diagnose other diseases on commercial terms. All our diagnostic services are based on accredited or quality-assured analysis methods.

**We manufacture vaccines and sera**
For some animal diseases commercial vaccines and sera are not available. For the treatment of these diseases the National Veterinary Institute DTU manufactures vaccines and sera, if the disease is significant. Our production of vaccines and sera takes place on commercial terms.

**We give advice to public authorities**
The National Veterinary Institute DTU provides advisory services and risk assessment to public authorities, the industry and interest groups. Advisory services and risk assessment are both based on robust and sensitive research methods. In addition, we supply data for disease monitoring in Denmark and coordinate the national monitoring of veterinary drug use (Vetstat).

**We are responsible for the Danish veterinary contingency plan**
The National Veterinary Institute DTU is responsible for the laboratory component of the Danish veterinary contingency plan, which puts emergency procedures into action in the event of suspected or actual outbreaks of serious infectious animal diseases. In these cases our laboratories analyse samples from the animals. The contingency plan is supported by our activities in conjunction with a range of national monitoring programmes on animal diseases and zoonoses. Our research and diagnostics expertise is crucial for maintaining the high quality of the Danish veterinary contingency plan. The Danish Veterinary and Food Administration is responsible for the part of the contingency plan handling infection situations in Denmark.

**We are reference laboratory**
The institute is the Danish national reference laboratory for a long list of infectious animal diseases, and the EU and OIE reference laboratory for selected fish diseases.

**We cover relevant subject areas**
Professionally the institute covers all areas important to infectious diseases:
**Pathology**

**Bacteriology**

**Virology**

**Parasitology**

**Immunology**

**Vaccinology**

**Serology**

**Epidemiology**

**Risk Assessment**

**We are 220**
The institute employs about 220 staff members and consists of the management, the secretariat and the service division. Furthermore we have these five sections:

**Virology** – focusing on serious virus infections, including virus infections transmitted from animals to humans (zoonotic infections).

**Immunology and vaccinology** – including development and optimization of new vaccines and other biological products.

**Epidemiology** – including disease modeling and climate-related changes in disease spread.

**Bacteriology, pathology and parasitology** - focusing on fish bacteriology, non-food-borne bacterial zoonoses and activities with a view to reducing the use of antibiotics. We also work on methods for characterizing multi-bacterial societies.

**Public sector consultancy, contingency and commercial diagnostics.**

Organisational unit: Department

**Environmental Chemistry**

Department of Environmental Engineering
Short name: Environmental Chemistry

**Addresses**
Type of address: Postal address
Street: Bygningstorvet
Building: 115
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: +45 4525 1600
Fax: +45 4593 2850

**Web addresses**
Web: http://www.env.dtu.dk/English/About_the_department/Contact.aspx
Web: http://www.env.dtu.dk/english

**E-mails**
E-mail: info@env.dtu.dk
Organisational unit: Section

**Residual Resource Engineering**
Department of Environmental Engineering
Short name: Residual Resource Engineering

**Addresses**
Type of address: Postal address
Street: Bygningstorvet
Building: 115
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: +45 4525 1600
Fax: +45 4593 2850

**Web addresses**
Web: http://www.env.dtu.dk/English/Research/Research%20Themes/Residual%20Resources%20Engineering.aspx
Web: http://www.env.dtu.dk/english

**E-mails**
E-mail: info@env.dtu.dk
Organisational unit: Section

**Materials and Surface Engineering**
Department of Mechanical Engineering
Short name: Materials Science and Engineering

**Addresses**
Type of address: Postal address
Street: Produktionstorvet
Building: 425, 120
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 45 25 22 50
Fax: (+45) 45 93 62 13

**Web addresses**
Web: http://www.mtu.mek.dtu.dk/English.aspx

**E-mails**
E-mail: somers@mek.dtu.dk
Organisational unit: Section

**Manufacturing Engineering**
Department of Mechanical Engineering
Short name: Manufacturing Engineering

**Addresses**
Type of address: Postal address
Street: Produktionstorvet
Building: 427A, 321
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 45 25 48 16
Fax: (+45) 45 93 01 90

**Web addresses**
Web: http://www.mek.dtu.dk/English.aspx

**E-mails**
E-mail: hnha@mek.dtu.dk
Organisational unit: Section

**Thermal Energy**
Department of Mechanical Engineering
Short name: Thermal Energy Systems

**Addresses**
Type of address: Postal address
Street: Nils Koppels Allé
Building: 403, 110
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark
Phone numbers
Phone: (+45) 45 25 41 69
Fax: (+45) 45 93 5215

Web addresses
Web: http://www.mek.dtu.dk/english

E-mails
E-mail: be@mek.dtu.dk
Organisational unit: Section

High-Speed Optical Communication
Department of Photonics Engineering
Short name: Ultra-Fast Optical Communication

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/CommunicationTechnology/high-speed.aspx
Web: http://www.fotonik.dtu.dk/english

E-mails
E-mail: info@fotonik.dtu.dk
Organisational unit: Section

Plasmonics and Metamaterials
Department of Photonics Engineering
Short name: Plasmonics and Metamaterials

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/ResearchActivities/Metamaterials_research.aspx
Web: http://www.fotonik.dtu.dk/english

E-mails
E-mail: info@fotonik.dtu.dk
Organisational unit: Section

Optical Sensor Technology
Department of Photonics Engineering
Short name: Optical Sensor Technology

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/LightandSensors/OpticalSensorTech.aspx
Web: http://www.fotonik.dtu.dk/English

E-mails
E-mail: info@fotonik.dtu.dk
Organisational unit: Section

Optical Microsensors and Micromaterials
Department of Photonics Engineering
Short name: Optical Microsensors and Micromaterials

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 343
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4525 6352
Fax: +45 4593 6581

Web addresses
Web: http://www.fotonik.dtu.dk/English/Research/LightandSensors/OpticalMicrosensors.aspx
Web: http://www.fotonik.dtu.dk/english

E-mails
E-mail: info@fotonik.dtu.dk
Organisational unit: Section

Networks Technology and Service Platforms
Department of Photonics Engineering
Short name: Networks Technology and Service Platforms

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Web: http://www.fotonik.dtu.dk/english

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Organisational unit: Section

Nanophotonic Devices
Department of Photonics Engineering
Short name: Nanophotonic Devices

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Organisational unit: Section

Metro-Access and Short Range Systems
Department of Photonics Engineering
Short name: Metro-Access and Short Range Systems

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Organisational unit: Section

Fiber Optics, Devices and Non-linear Effects
Department of Photonics Engineering
Short name: Fiber Optics, Devices and Non-linear Effects

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Organisational unit: Section

Diode Lasers and LED Systems
Department of Photonics Engineering
Short name: Diode Lasers and LED Systems

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Web addresses
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Web: http://www.fotonik.dtu.dk/English

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Organisational unit: Section

Management
National Space Institute
Short name: Management

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E-mails
Microwaves and Remote Sensing
National Space Institute
Short name: Remote Sensing

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E-mails
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Measurement and Instrumentation Systems
National Space Institute
Short name: Measurement and Instrumentation Systems

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Phone: (+45) 4525 2525
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Web: http://www.space.dtu.dk/english/Research/Research_divisions/Measurement_and_Instrumentation

E-mails
E-mail: office@space.dtu.dk

Organisation profile
Head of division: John Leif Jørgensen
Main research areas: Development of concepts, designs, implementations and verifications of the advanced high performance instruments for use on board spacecraft.
The Measurement and Instrumentation division develops high accuracy stellar reference units for spacecraft and science grade vector magnetometers for space and ground use. The division also works on optical detection and tracking sensors for space.

The division also develops optical formation flying sensors and autonomous sensor systems. These systems are refined by calibration techniques enabling full accuracy use. This calibration is done by the Measurement and Instrumentation division.

**Research plan**

Implementation of formation flying test lab and associated methods and techniques.

Inertial navigation techniques.

Sub-arcsecond techniques.

Interplanetary and planetary stellar magnetic measurement platforms

Planetary lander systems and autonomy

**Applications of the technology**

In parallel to these general instrument improvements, other applications and technology uses have been pursued. This research has led to several novel measurement principles, which encompass multi-sensor-head star trackers for improved maneuverability, sub-arcsecond accuracy instruments, astronomical telescope field determination, miniature magnetometer packages for planetary landers, autonomous radiation impact handling and guider and rendezvous docking systems.

**Examples:**

European Space Agency missions: SWARM, PROBA1, PROBA2, SMART1

NASA missions: IBEX, MMS, JUNO

The Swedish National Space Board missions: PRISMA

JAXA missions: SmartSat

Organisational unit: Section

**Geodynamics**

National Space Institute

Short name: Geodynamics

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**E-mails**

E-mail: office@space.dtu.dk

**Organisation profile**

**Main research areas:** Mapping and monitoring of the cryosphere by satellite, airborne and in-situ data, determining and modelling the earths gravity field in support of global and regional geodynamics, geoid determination and national gravity
networks. Geodynamics carries out airborne and satellite projects in geodesy and earth observation, on behalf of ESA, EU and international geodetic organizations, and manages the DTU-Space role in the Danish Continental Shelf Project through provision of relevant geophysical data and geodetic know-how.

Gravity Field Mapping

The Continental Shelf

Gravity Field Mapping
Since 1996, the NSI has carried out extensive airborne gravity campaigns for regional gravity field determination, especially in the Arctic (Greenland, Svalbard and Canada regions), as well as dedicated projects to map the marine geoid for ocean dynamic topography estimation (North Atlantic, Baltic Sea, Azores, Greece and Australia) and minor demonstration projects for oil exploration (Italy and Svalbard). Over the years, the system has been installed in a large number of different aircraft (Twin-Otter, Antonov-38, Cessna Caravan, Fokker-27, Casa-212 and several others), highlighting the versatility of airborne gravity.
Recent major projects include nationwide geoid and regional gravity surveys of Malaysia (2002-3), Mongolia (2004-5), and Ethiopia (2006-7). These are challenging areas with great variations in topography, necessitating special processing for downward continuation of airborne data and existing surface data. The NSI airborne gravity system is based on a Lacoste and Romberg 'S'-type marine gravimeter, modified for airborne use by ZLS Corporation, and augmented by a medium-grade Honeywell inertial navigation system and numerous geodetic GPS receivers. During good flight conditions the system gives an accuracy of 1.5-2 mgal at 5-6 km resolution.

The Continental Shelf
On 29 April 2003 the Danish Parliament decided to ratify the United Nations Convention on the Law of the Sea (UNCLOS). This decision was later also endorsed by the Parliaments of the Faroe Islands and Greenland.

Denmark ratified UNCLOS on 16 November 2004. Denmark has 10 years from this date to put forward any claims to extend the outer limits of its continental shelf beyond 200 nautical miles.

Five potential claim areas have been identified off the Faroe Islands and Greenland, potentially including the North Pole. In order to provide a database of the necessary information, the Danish Continental Shelf Project has been launched by the Ministry for Science, Technology and Innovation in co-operation with the Faroese and Greenland home rule governments. The project is a co-operation between various institutions in Denmark, the Faroe Islands and Greenland.

The main tasks of the Continental Shelf Project are to identify potential claim areas and to acquire, interpret and document the necessary data for a submission to the United Nations. The NSI supports the project by ensuring accurate GPS-measurements and interpreting data from satellites measuring gravity and ice cover.

Contact person
Head of division René Forsberg.

Organisational unit: Section

Geodesy
National Space Institute
Short name: Geodesy

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Organisation profile

Main research areas: Maintenance and development of geodetic infrastructure and development of new techniques for surveying and mapping, such as GPS and Galileo. Refinement and improvement of space-based Earth Observation techniques.

Geodetic Infrastructure
GNSS Positioning
Earth Observation
Geodetic Observing System
Permanent GPS Stations

Geodetic Infrastructure
Research in the field of geodetic infrastructure is carried out with the aim of maintaining and developing geodetic reference systems and reference frames so that the national implementation as a basis for the spatial infrastructure, including surveying and mapping, meets its users' requirements for accuracy and integrity at all times.

An important task is to introduce and define new international standards such as the ITRFs at the national defining points and stations. It is thus our task to facilitate the transformation towards new standards in line with the national official reference frame in ETRS89 called EUREF89.

Our main challenge is to establish a consistent link between the global navigation satellite systems (GNSSs) and the national reference frames so that these GNSSs can be fully utilized in positioning and navigation. An important issue in this context is to define a velocity field that can compensate for continental drift and crustal deformations.

Another important challenge is to develop an accurate, long-term, stable reference frame, which is needed in global monitoring to detect changes in e.g. sea level and ice caps. The development of such accurate stable reference frames will also facilitate the use of GNSSs in monitoring deformations in big structures, bridges, harbours, oil rigs etc.

GNSS Positioning
Research in the field of positioning is being carried out with the aim of developing new positioning techniques that can be used by society for surveying and navigation purposes. Particular efforts are being made in research on the use of global navigation satellite systems (GNSSs - mainly GPS) for both static and kinematic positioning and for the determination of reference coordinates. The classical method of levelling is still used for accurate height determination.

Analysis of time series from permanent GPS stations helps to attain accurate coordinate determinations and to extract information about crustal movements. Furthermore, it also makes it possible to monitor the integrity of the satellite systems and detect problems. Issues relating to the stability of the global reference frames are currently being studied to enhance the accuracy of the coordinates, which will facilitate new GNSS applications. A major effort is also being put into the detection of ice load changes in Greenland based on permanent GPS combined with campaign measurements.

The use of kinematic positioning in real time using GNSS has huge potential in navigation and could be used in for a variety of applications in surveying, traffic, farming, and location-based services. Our research aims to enhance kinematic GNSS, which will facilitate these developments and to prepare for GALILEO so that we obtain the full benefits of this investment.

Earth Observation
Our research in Earth observation aims to establish knowledge about new mapping techniques and other Earth observation tasks in order that society can take full advantage of these new technologies. We mainly focus on applications stemming from new Earth observation satellites and the development of data processing and analysis methods related to the mapping of heights and height changes of land, ocean and ice surfaces. For urban mapping, we are developing automatic change detection methods that will enhance the use of remote sensing data in topographic mapping.

One of our core activities is the mapping of marine geodetic quantities based on satellite altimetry. The NSI global marine gravity field, global mean sea surface and ocean tide models are widely-known, widely-used products stemming from this activity. Including satellite gravity from GRACE and GOCE, we are developing methods to enhance the determination of the mean dynamic topography and improve the modeling of ocean currents and transports.

An important challenge is to develop methods for utilizing Earth observation satellites in global change monitoring and observations of the impact of the varying climate. We are helping to develop techniques for the global monitoring of sea level changes and to develop reference surfaces for ocean modeling and forecasting for the European Global Monitoring for Environment and Security (GMES). A pioneering field is to use satellite gravity changes from GRACE to detect changes in ground water storages.
Geodetic Observing System

Geodetic observations are needed to carry out geodetic tasks such as establishing reference frames. Many tasks require standardized globally distributed data that have been quality checked. Furthermore, collocated data of various kinds (e.g. position and sea level or position and gravity) may be required in research. Hence, international collaboration and coordination are needed to develop the observing system, so that the data requirements can be fulfilled. As part of our national responsibility, we supply data from our national territory - Greenland in particular.

One of our core activities is our participation in the international activities to develop a global network of permanent GPS stations; we are developing a network of permanent GPS stations in Greenland to help to meet these international requirements and standards. We also participate in the international development of a network of sea level recording stations, and we are developing a network of such stations in Greenland. These developments are associated with instrumentation and communication and also complement the instrumentation of other geodetic techniques that may be requested.

We contribute to the development of the Global Geodetic Observing System (GGOS) and its regional implementation and densification, the Nordic Geodetic Observing System (NGOS).

Permanent GPS Stations

As part of our national responsibility to supply data from our national territory - Greenland in particular – to the international community we operate a number of permanent GPS stations in Greenland. The data are sent to the International GNSS Service and similar European centers, where data are made available to other users and used for monitoring and improving the performance of the GNSS. Two stations are so-called global stations and used for the determination of new international reference frames.

In Thule we host a DORIS beacon. DORIS is a global satellite tracking system mainly used for orbit determination for Earth observation satellites. We also operate sea level recorders at specific sites in Greenland – collocated with GPS – to acquire information on sea level to support research and calibration of spaceborne instruments. These stations are operated according to international standards adopted by GLOSS and the European Sea-level Service (ESEAS). Data are made available through ESEAS and the Permanent Service for Mean Sea Level (PSMSL).

Contact person
Head of division Per Knudsen.
Organisational unit: Section

National Space Institute

Technical University of Denmark
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Organisation profile
Education
DTU Space offers a number of exciting study lines and courses within space research and space technology. With an education from DTU, you can become one of the people who set the agenda for future space research and contribute to
monitoring and understanding climate change and the Earth's environment.

**Research**
Research at DTU Space is characterised by a strong interaction between basic research and technology development, and the Institute's projects often involve international co-operation.

**Organisational unit: Department**

**Department of Environmental Engineering**
Technical University of Denmark
Short name: DTU Environment

**Addresses**
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**E-mails**
E-mail: info@env.dtu.dk

**Organisation profile**
Department of Environmental Engineering (DTU Environment) works at the highest international level to develop new environmentally friendly & sustainable technologies and disseminate this knowledge to society and new generations of engineers. Our activities in research, teaching and innovation is focused on:

- Atmospheric Environment
- Environmental Chemistry
- Residual Resource Engineering
- Urban Water Systems
- Water Resources Engineering
- Water Technologies

Read more about the department and its activities at the department homepage.
Head of Department: Professor Thomas Højlund Christensen
Organisational unit: Department

**Experimental Surface and Nanomaterials Physics**
Department of Physics
Short name: CINF

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Web: http://www.fys.dtu.dk/English/

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Organisational unit: Section

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**Theoretical Atomic-scale Physics**
Department of Physics
Short name: CAMD

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Organisational unit: Section

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**Biophysics and Fluids**
Department of Physics
Short name: FLUIDS

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Web: http://www.fysik.dtu.dk/english

**E-mails**
E-mail: info@fysik.dtu.dk
Organisational unit: Section

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**Nanophotonics Theory and Signal Processing**
Department of Photonics Engineering
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Organisational unit: Section

---

**Department of Management Engineering**
Technical University of Denmark
Short name: DTU Management Engineering

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E-mails
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Organisation profile

Education
We offer a range of courses and programmes within manufacturing, product design, production technology, strategy, economics, management, organisation, sociotechnical design, entrepreneurship and sustainability.

Research
Our main research areas are innovation, product development, production management, sustainability, construction management and operations research.

Industrial collaboration
We emphasise the transfer of knowledge between industry and academia. Research co-operation can take many forms: industrial PhD projects; research consortiums; innovation contracts, and collaboration agreements.

Organisational unit: Department

Administration
Department of Mechanical Engineering
Short name: Administration

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Organisational unit: Section

Solid Mechanics
Department of Mechanical Engineering
Short name: FAM

Addresses
Type of address: Postal address
Street: Nils Koppels Allé
Organisation profile

Education
The section offers teaching within the disciplines:

Mechanics
Strength of materials
Mechanical vibrations
Machine elements
Composite materials
Finite elements

Plasticity and fracture mechanics

Research
Research groups at the section work with:

Mechanics and strength of materials
Vibration analysis
Topology optimization
Machine elements

Business
Solid Mechanics has extensive collaboration with companies, institutions and individuals, domestically and abroad, with a continuous adjustment and expansion of the network.

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Organisational unit: Department

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Short name: Administration

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Organisational unit: Section

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Technical University of Denmark
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Organisation profile
Organisational unit: Department

Department of Chemical and Biochemical Engineering
Technical University of Denmark
Short name: DTU Chemical Engineering

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Organisational unit: Department

Center for Electron Nanoscopy
Technical University of Denmark
Short name: DTU Cen

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Web: http://www.cen.dtu.dk/

Organisation profile
Funded by a generous donation given by the A.P. Møller and Chastine McKinney Møller Foundation, the Center for Electron Nanoscopy (DTU Cen) at DTU is a state of the art center for electron microscopy. DTU Cen aims at establishing and operating an internationally lead electron microscopy facility that ensures the balance between advanced research, teaching, service and training, as well as establishing additional collaboration with national and international partners and securing further national and European funding for research purposes.

Organisational unit: Department

Center for BioProcess Engineering
Department of Chemical and Biochemical Engineering
Short name: BioEng

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Organisation profile
The Center for BioProcess Engineering currently hosts and manages three larger research structures:

1. The Novozymes BioProcess Academy was established in 2002 with substantial support from Novozymes A/S. Currently, 8 full-time, post-graduate students studying for the qualification of PhD as well as 4 MSc students are enrolled with the academy.

2. The Research Consortium "Innovative BioProcess Technology" was established in 2005 as a major research collaboration between Center for Biochemical Engineering – a cooperation between The Dept. of Chemical Engineering and BioCentrum, DTU – and the three major Danish biobased companies: Novozymes A/S, Danisco A/S, and Chr. Hansen A/S. The programme will run for at least 5 years and educate at least 5 PhD, 1 postdoc, and 10 MSc candidates.

3. Center for Biological Production of Dietary Fibres and Prebiotics. Started Jan. 1. 2007 via a grant from Danish Council for Strategic Research (Programme Committee on Food and Health) and with main support from Danisco A/S. The Centre will educate minimum 9 PhDs and 4 postdocs.

Organisational unit: Section

Administration
Department of Chemical and Biochemical Engineering
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Organisational unit: Section

The Danish Polymer Centre
Department of Chemical and Biochemical Engineering
Short name: DPC

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CHEC Research Centre
Department of Chemical and Biochemical Engineering
Short name: CHEC

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**Organisation profile**
CHEC is an acronym for Combustion and Harmful Emission Control, referring to the traditional core research area of the group. In recent years, CHEC has also initiated research in the field of chemical and biochemical product design.

Organisational unit: Section

**DTU Admission Course**
Technical University of Denmark
Short name: ADK

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Organisational unit: Department