Search result (research units) - DTU Orbit (31/03/2019)

**Immunological Memory Group**
Immunobiology and Biomimetics
Short name: Immunological Memory Group

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

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

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

**Mucosal Immunity to Viruses**
Immunobiology and Biomimetics
Short name: Mucosal Immunity to Viruses

Addresses
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**Mucosal Immunology**
Immunobiology and Biomimetics
Short name: Mucosal Immunology

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Organisational unit: Group

T-Cells and Cancer
Experimental & Translational Immunology
Short name: T-Cells and Cancer

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Country: Denmark

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E-mails
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Organisational unit: Group

Nanomaterials and Nanobiosensors
Experimental & Translational Immunology
Short name: Nanomaterials and Nanobiosensors

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

Adaptive Immunology
Experimental & Translational Immunology
Short name: Adaptive Immunology

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Type of address: Postal address
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Postal code: DK-2800
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E-mails
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Organisational unit: Group

T-Cell Signaling and Development
Experimental & Translational Immunology
Short name: T-Cell Signaling and Development

Addresses
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E-mails
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Organisational unit: Group

Colloids & Biological Interfaces
Biotherapeutic Engineering and Drug Targeting
Short name: Colloids & Biological Interfaces

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

Web addresses
Tailored Materials and Tissues
Biotherapeutic Engineering and Drug Targeting
Short name: Tailored Materials and Tissues

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

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

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

Ocular Drug Delivery
Biotherapeutic Engineering and Drug Targeting
Short name: ODD

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

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

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

Biologically Inspired Material Engineering
Biotherapeutic Engineering and Drug Targeting
Short name: BioEngine

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: Building 345C
Immunobiology and Biomimetics

Biopharma

Short name: IBM

Addresses

Type of address: Postal address
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Organisational unit: Group

Experimental & Translational Immunology

Biopharma

Short name: xTIM

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Organisational unit: Section
Biotherapeutic Engineering and Drug Targeting
Biopharma
Short name: Biotherapeutic Engineering and Drug Targeting

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

Biopharma
Department of Health Technology
Short name: Biopharma

Addresses
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Web addresses
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Division

Brain Computer Interface
Digital Health
Short name: Brain Computer Interface

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

Digital Health
Short name: Biomedical Signal Processing

Addresses
Type of address: Postal address
Street: Ørsteds Plads
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Country: Denmark

Web addresses
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E-mails
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Organisational unit: Group

Hearing Systems Group

Hearing Systems
Short name: Hearing Systems Group

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

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

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

BMEM

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

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

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Organisational unit: Group

AI for Immunological Molecules
Bioinformatics
Short name: AIM

Addresses
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Street: Ørsteds Plads
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Organisational unit: Group

Disease Data Intelligence
Bioinformatics
Short name: Disease Data Intelligence

Web addresses
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Organisational unit: Group

Integrative Systems Biology
Bioinformatics
Short name: Integrative Systems Biology

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Organisational unit: Group

Immunoinformatics and Machine Learning
Bioinformatics
Short name: Immunoinformatics and Machine Learning

Addresses
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Organisational unit: Group

Cancer Genomics
Bioinformatics
Short name: Cancer Genomics

Addresses
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Country: Denmark

Web addresses
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Digital Health
Digital Health and Biological Modelling
Short name: Digital Health

Addresses
Type of address: Postal address
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Organisational unit: Group

Hearing Systems
Digital Health and Biological Modelling
Short name: Hearing Systems

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Organisational unit: Section

Bioinformatics
Digital Health and Biological Modelling
Short name: Bioinformatics

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Organisational unit: Section

Digital Health and Biological Modelling
Department of Health Technology
Short name: Digital Health and Biological Modelling

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Organisational unit: Division

Optofluidics
Nano and Bio-physical Systems
Short name: Optofluidics

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Organisational unit: Group
**Stochastic Systems and Signals**
Nano and Bio-physical Systems  
Short name: Stochastic Systems and Signals

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Organisational unit: Group

**Magnetic Systems**
Nano and Bio-physical Systems  
Short name: Magnetic Systems

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Organisational unit: Group

**Nanofluidics and Bioimaging**
Nano and Bio-physical Systems  
Short name: Nanofluidics and Bioimaging

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Organisational unit: Group

Fluidic Array Systems and Technology
Nano and Bio-physical Systems
Short name: Fluidic Array Systems and Technology

Addresses
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Organisational unit: Group

Nanoprobes
Drug Delivery and Sensing
Short name: Nanoprobes

Addresses
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Street: Ørsteds Plads
Building: Building 345C
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Web addresses
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Group

CMR Center for Magnetic Resonance
Magnetic Resonance
Short name: CMR
Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: Building 345C
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

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

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

Cardiovascular Biomechanics
Biomedical Engineering
Short name: Cardiovascular Biomechanics

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: Building 345C
Postal code: DK-2800
City: Kgs. Lyngby
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Group

InterCranial Pressure Monitoring & Educational Research
Biomedical Engineering
Short name: InterCranial Pressure Monitoring & Educational Research

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: Building 345C
Postal code: DK-2800
City: Kgs. Lyngby
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Group

Imaging of Subcellular Life
Biomedical Engineering
Short name: Imaging of Subcellular Life

Addresses
Type of address: Postal address
Street: Ørsteds Plads
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Postal code: DK-2800
City: Kgs. Lyngby
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Group

Cellular Signalling & Biotransport
Biomedical Engineering
Short name: Cellular Signalling & Biotransport

Addresses
Type of address: Postal address
Street: Ørsteds Plads
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E-mails
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Organisational unit: Group

Medical Image Computing
Biomedical Engineering
Short name: Medical Image Computing

Addresses
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Street: Ørsteds Plads
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Organisational unit: Group

Biophotonic Imaging
Biomedical Engineering
Short name: Biophotonic Imaging

Addresses
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Organisational unit: Group

Mems Applied Sensors Group
Biomedical Engineering
Short name: Mems Applied Sensors Group

Addresses
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E-mails
E-mail: healthtech-info@dtu.dk
Organisational unit: Group
Center for Fast Ultrasound Imaging
Biomedical Engineering
Short name: Center for Fast Ultrasound Imaging

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E-mails
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Organisational unit: Group

Nano and Bio-physical Systems
Imaging and Biosensors
Short name: NanoBioPhys

Addresses
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Street: Ørsted Plads
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City: Kgs. Lyngby
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E-mails
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Organisational unit: Section

Drug Delivery and Sensing
Imaging and Biosensors
Short name: IDUN

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Country: Denmark
**Web addresses**
Web: http://www.healthtech.dtu.dk/english

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

**Magnetic Resonance**
Imaging and Biosensors
Short name: Magnetic Resonance

**Addresses**
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Postal code: DK-2800
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Country: Denmark

**Web addresses**
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Organisational unit: Section

**Biomedical Engineering**
Imaging and Biosensors
Short name: BME

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Organisational unit: Section

**Imaging and Biosensors**
Department of Health Technology
Short name: Imaging and Biosensors
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Organisational unit: Division

Operations Research
Management Science
Short name: Operations Research

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Organisational unit: Group

Operations Management
Management Science
Short name: Operations Management

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

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Organisational unit: Group

UNEP DTU Partnership
Department of Technology, Management and Economics
Short name: UNEP DTU Partnership

Addresses
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Street: Marmorvej 51
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Country: Denmark

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Web addresses
Web: http://www.unepdtu.org/
Organisational unit: Section

Transport Modelling
Department of Technology, Management and Economics
Short name: Transport Modelling

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Transport DTU
Department of Technology, Management and Economics
Short name: Transport DTU

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Web addresses
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Organisational unit: Section

Technology and Innovation Management
Department of Technology, Management and Economics
Short name: Technology and Innovation Management

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

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Organisational unit: Section

Systems Analysis
Department of Technology, Management and Economics
Short name: Systems Analysis

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Type of address: Postal address
Street: Frederiksborgvej 399
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Country: Denmark

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Phone: +45 4677 5199

Web addresses
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Organisational unit: Section

Quantitative Sustainability Assessment
Department of Technology, Management and Economics
Short name: Quantitative Sustainability Assessment

Addresses
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Building: 424
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Web addresses
Web: https://www.man.dtu.dk/english

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

Management Science
Department of Technology, Management and Economics
Short name: Management Science

Addresses
Type of address: Postal address
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Organisational unit: Section

Engineering Systems
Department of Technology, Management and Economics
Short name: Engineering Systems

Addresses
Type of address: Postal address
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**Department of Technology, Management and Economics**
Technical University of Denmark
Short name: DTU Management

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Organisational unit: Department

**Soft matter**
Nanocharacterization

**Addresses**
Type of address: Postal address
Street: Ørsteds Plads
Building: 347
Postal code: DK-2800
City: Kongens Lyngby
Country: Denmark

**Phone numbers**
Phone: 4525 5743

**Web addresses**
Web: https://www.nanolab.dtu.dk/english

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

Organisational unit: Group

**Electron matter interaction**
Nanocharacterization

**Addresses**
Type of address: Postal address
Phone numbers
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Web addresses
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E-mails
E-mail: info@nanolab.dtu.dk
Organisational unit: Group

Nanocharacterization
National Centre for Nano Fabrication and Characterization

Addresses
Type of address: Postal address
Street: Ørsteds Plads
Building: 347
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City: Kongens Lyngby
Country: Denmark

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Organisational unit: Section

Advanced Nanomachining
Nanofabrication

Addresses
Type of address: Postal address
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**Silicon Microtechnology**
Nanofabrication

**Addresses**
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**Polymer Microsystems**
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Organisation profile
DTU Nanolab is the National Centre for Nano Fabrication and Characterization in Denmark and is owned by and located at the Technical University of Denmark (DTU). DTU Nanolab operates and maintains advanced processing equipment within 1350 m2, class 10-100, ISO 9001-certified, open access, pay-per-use cleanroom facilities.
Organisational unit: Department

Test and Calibration
Department of Wind Energy
Short name: Test and Calibration

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Department of Photonics Engineering
Short name: Machine Learning in Photonic Systems

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Department of Energy Conversion and Storage
Short name: FOX

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Organisational unit: Section

**Electrochemistry**
Department of Energy Conversion and Storage
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Short name: Composite Materials

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Short name: Section for Protein Chemistry and Enzyme Technology

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Tropical Pharmacology and Biotherapeutics
Section for Protein Science and Biotherapeutics
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Short name: Innate Immunology

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**Fungal Biomedicine and Biology**
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**Environmental Fate & Effect of Chemicals**
Department of Environmental Engineering
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Air, Land & Water Resources
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Short name: Computational Biology

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Organisational unit: Section

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Department of Chemical and Biochemical Engineering
Short name: PROSYS

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Organisational unit: Section

Enzyme Engineering & Structural Biology
Research Groups
Short name: Enzyme Engineering & Structural Biology

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City: Kgs. Lyngby
Country: Denmark

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

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

Organisation profile
Group Leader: Ditte Hededam Welner
Organisational unit: Group
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: Selttofts Plads
Building: Building 229
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City: Kgs. Lyngby
Country: Denmark
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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City: Kgs. Lyngby
Country: Denmark

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

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

Organisation profile
Headed by Karen Edelvang, kaede@aqua.dtu.dk
Organisational unit: Section

Pre-Pilot Plant
Translational Management
Short name: Pre-Pilot Plant

Addresses
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Country: Denmark

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E-mails
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Organisational unit: Group

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

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Country: Denmark

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

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

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Type of address: Postal address
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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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Organisational unit: Group

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

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E-mails
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Organisational unit: Group

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

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Type of address: Postal address
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Web addresses
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Organisational unit: Group

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

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Web addresses
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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

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**Web addresses**

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**E-mails**

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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

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Organisational unit: Group

Fish Diseases
Division for Diagnostics & Scientific Advice
Short name: Fish Diseases

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Organisational unit: Group

Epidemiology
Division for Diagnostics & Scientific Advice
Short name: Epidemiology

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Diagnostic & Development
Division for Diagnostics & Scientific Advice
Short name: Diagnostic & Development

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Organisational unit: Group

Bacteriology & Parasitology
Division for Diagnostics & Scientific Advice
Short name: Bacteriology & Parasitology

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Organisational unit: Group

**Division of Immunology & Vaccinology**
National Veterinary Institute
Short name: Division of Immunology & Vaccinology

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Organisational unit: Section

**Division for Diagnostics & Scientific Advice**
National Veterinary Institute
Short name: Division for Diagnostics & Scientific Advice

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Organisational unit: Section

DTU Proteomics Core
Section for Protein Science and Biotherapeutics
Short name: DTU Proteomics Core

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Organisational unit: Group

DTU Metabolomics Core
Section for Microbial and Chemical Ecology
Short name: DTU Metabolomics Core

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Organisational unit: Group

**Protein Glycoscience and Biotechnology**
Section for Protein Chemistry and Enzyme Technology  
Short name: Protein Glycoscience and Biotechnology

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Organisational unit: Group

**Photosynthetic Cell Factories**
Section for Synthetic Biology  
Short name: Photosynthetic Cell Factories

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Organisational unit: Group

Network Engineering of Eukaryotic Cell factories
Section for Synthetic Biology
Short name: Network Engineering of Eukaryotic Cell factories

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Organisational unit: Group

Natural Product Discovery
Section for Microbial and Chemical Ecology
Short name: Natural Product Discovery

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Organisational unit: Group

Metabolic Signaling and Regulation
Section for Microbial and Chemical Ecology
Short name: Metabolic Signaling and Regulation

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Organisational unit: Group

Infection Microbiology
Section for Microbial and Chemical Ecology
Short name: Infection Microbiology

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E-mails
Fungal Degradation
Section for Microbial and Chemical Ecology
Short name: Fungal Degradation

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Organisational unit: Group

Fungal Chemodiversity
Section for Microbial and Chemical Ecology
Short name: Fungal Chemodiversity

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Organisational unit: Group
Eukaryotic Molecular Cell Biology
Section for Synthetic Biology
Short name: Eukaryotic Molecular Cell Biology

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Organisational unit: Group

Enzyme and Protein Chemistry
Section for Protein Chemistry and Enzyme Technology
Short name: Enzyme and Protein Chemistry

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Organisational unit: Group

Disease Systems Immunology
Section for Protein Science and Biotherapeutics
Short name: Disease Systems Immunology
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Organisational unit: Group

Biosynthetic Pathway Engineering
Section for Synthetic Biology
Short name: Biosynthetic Pathway Engineering

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Organisational unit: Group

Bacterial Ecophysiology and Biotechnology
Section for Microbial and Chemical Ecology
Short name: Bacterial Ecophysiology and Biotechnology

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Organisational unit: Group

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

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Organisational unit: Section

CHO in Silico Engineering of Glycosylation and Protein Quality (CiSe)
Research Groups
Short name: CHO in Silico Engineering of Glycosylation and Protein Quality (CiSe)

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Organisational unit: Group

**ALE Technology & Software Development**
Research Groups
Short name: ALE Technology & Software Development

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Organisational unit: Group

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

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

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PILOT PLANT
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Short name: PILOT PLANT

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

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Street: Kogle Alle 6
Postal code: 2970
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Country: Denmark

Phone numbers
Systems Environmental Microbiology

Research Groups
Short name: Systems Environmental Microbiology

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Organisational unit: Group

Biomass Conversion and Bioprocess Technology

Research Groups
Short name: Biomass Conversion and Bioprocess Technology

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

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Organisational unit: Section

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

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Web addresses
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E-mails
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Organization 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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Web addresses
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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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Web: http://www.space.dtu.dk/english/Research/Research_divisions/Innovation-and-consultancy

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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

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National Space Institute
Short name: Astrophysics and Atmospheric Physics

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Country: Denmark
Type of address: Postal address
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Postal code: DK-2800
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Organisation profile
Head of division Allan Hornstrup
The Division for Astrophysics and Atmospheric 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

Centre for oil and gas – DTU
Center: DHRTC

Addresses
Type of address: Postal address
Street: Elektrovej
Building: Building 375
Postal code: 2800
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Country: Denmark

Phone numbers
Phone: (+45) 45 25 72 10

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

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

Organisation profile
Director: Bo Cerup-Simonsen
M: +45 21 78 94 03

In 2014, the partners in the Danish Underground Consortium (DUC) entered into an agreement on the financing of the Danish Hydrocarbon Research and Technology Centre (DHRTC), which has been established at and is operated from Technical University of Denmark (DTU).

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.

Organisational unit: Center

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

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

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

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

Organisational unit: Section

**Water Technologies**
Department of Environmental Engineering
Short name: Water Technologies

**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

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

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

Organisational unit: Section

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

**Addresses**
Type of address: Postal address
Street: Bygningstorvet
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Phone numbers
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Web addresses
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E-mails
E-mail: info@env.dtu.dk
Organisational unit: Section

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

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 118
Postal code: DK-4000
City: Roskilde
Country: Denmark
Organisational unit: Section

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

Addresses
Type of address: Postal address
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Country: Denmark

Phone numbers
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Web addresses
Web: http://www.vindenergi.dtu.dk/english
E-mails
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Organisational unit: Section

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

Addresses
Type of address: Postal address
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Country: Denmark

Phone numbers
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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

Addresses
Type of address: Postal address
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Organisational unit: Section

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

**Addresses**
Type of address: Postal address  
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**E-mails**
E-mail: info@vindenergi.dtu.dk  
Organisational unit: Section

---

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

**Addresses**
Type of address: Postal address  
Street: Frederiksborgvej 399  
Building: 118  
Postal code: DK-4000  
City: Roskilde  
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E-mail: info@vindenergi.dtu.dk  
Organisational unit: Section

---

Aerodynamic design
Department of Wind Energy  
Short name: Aerodynamic design

**Addresses**
Type of address: Postal address  
Street: Frederiksborgvej 399  
Building: 118
Center for Hyperpolarization in Magnetic Resonance

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.

Center for Magnetic Resonance

Department of Electrical Engineering

Phone numbers
Phone: +45 4677 5085

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E-mails
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Organisational unit: Section

Center for Hyperpolarization in Magnetic Resonance

Phone numbers
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Organisational unit: Section
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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

Addresses
Type of address: Postal address
Street: Matematiktorvet
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Postal code: DK-2800
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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

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Centre of Excellence for Silicon Photonics for Optical Communications

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.

Yeast Metabolic Engineering

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E-mails
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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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Postal code: 2800
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Phone numbers
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Web addresses
Web: http://www.biosustain.dtu.dk/english

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

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

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Building 220
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark
Yeast Cell Factories
Novo Nordisk Foundation Center for Biosustainability
Short name: Yeast Cell Factories
Main Research Area: Technical/natural sciences

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Type of address: Postal address
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E-mails
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Group

Organization profile

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

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Research group for Microbial Biotechnology and Biorefining
National Food Institute
Short name: Research group for Microbial Biotechnology and Biorefining

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

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Organisational unit: Section

Research group for Risk Benefit
National Food Institute
Short name: Research group for Risk Benefit

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Organisational unit: Section

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

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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
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Street: Kemitorvet
Building: Bygning 202
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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 Naotechnology
Produktionstorvet
Building 423, room 106
2800 Kgs. Lyngby
Denmark

Phone: +45 4525 8168
**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.

**Centre 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 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.

**Centre for Product Modelling**

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

** Addresses **  
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Fax: (+45) 4593 4467

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:
Analyzing and developing already existing business processes for sales, biddings, and adaptation/documentation of products for individual customer needs.
Analyzing 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

Centre for Playware
Automation and Control
Center

Organisational unit: Group

Centre for IT-Intelligent Energy Systems in Cities
Center
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

**Energy Analytics and Markets**

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

**Addresses**

Type of address: Postal address
Street: Elektrovej
Building: 325
Postal code: DK-2800
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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**
Design of electricity mar-kets 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

**Addresses**

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

Organisation profile
Electric power system 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 Management
Center for Electric Power and Energy
Short name: Energy System Management
Main Research Area: Technical/natural sciences

Addresses
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Street: Elektrovej
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E-mail: cet@elektro.dtu.dk

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

Distributed Energy Resources
Center for Electric Power and Energy
Short name: Distributed Energy Resources
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 Equipment Technologies**
Center for Electric Power and Energy
Short name: Electric Equipment Technologies
Main Research Area: Technical/natural sciences

**Addresses**
Type of address: Postal address
Street: Elektrovej
Building: 325
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**Web addresses**
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**E-mails**
E-mail: cet@elektro.dtu.dk

**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

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

**Addresses**
Type of address: Postal address
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**E-mails**
E-mail: biosustain@biosustain.dtu.dk
Organisational unit: Section

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

**Addresses**
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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: Group

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

Addresses
Type of address: Postal address
Street: Lautrupvang 15
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City: Ballerup
Country: Denmark

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Web addresses
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E-mails
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Organisational unit: Section

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

Addresses
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E-mails
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Organisational unit: Section

Afdelingen for Maskin og Design
Center for Bachelor of Engineering Studies
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Type of address: Postal address
Street: Lautrupvang 15
Postal code: DK-2750
City: Ballerup
Country: Denmark

Phone numbers
Phone: +45 3588 5088

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

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

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

Addresses
Type of address: Postal address
Street: Lautrupvang 15
Postal code: DK-2750
City: Ballerup
Country: Denmark

Phone numbers
Phone: +45 3588 5088

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

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

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

Addresses
Type of address: Postal address
Street: Lautrupvang 15
Postal code: DK-2750
City: Ballerup
Country: Denmark

Phone numbers
Phone: +45 3588 5088

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

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

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

Addresses
Type of address: Postal address
Street: Lautrupvang 15
Postal code: DK-2750
City: Ballerup
Country: Denmark

Phone numbers
Phone: +45 3588 5088

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

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

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

Addresses
Type of address: Postal address
Street: Lautrupvang 15
Postal code: DK-2750
City: Ballerup
Country: Denmark

Phone numbers
Phone: +45 3588 5088

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

E-mails
E-mail: diplom@diplom.dtu.dk
Organisational unit: Department
Geomagnetism
National Space Institute
Short name: Geomagnetism

Addresses
Type of address: Postal address
Street: Elektrovej
Building: 327+328
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 4525 9500
Fax: (+45) 4525 9575

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

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Building 220
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

**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/Research/CHO%20Cell%20Engineering.aspx
Web: http://www.biosustain.dtu.dk/english

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

---

**Software and Process Engineering**

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

**Addresses**
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: Barbara Weber
Organisational unit: Section

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

Addresses
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 Michael Pedersen
Organisational unit: Section

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

Addresses
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 Bjarne Kjær Ersbøll
Organisational unit: Section

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

Addresses
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 Lars Kai Hansen
Organisational unit: Section

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

Addresses
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 Jan Madsen
Organisational unit: Section

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

Addresses
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 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
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: Anders Bjorholm Dahl
Organisational unit: Section

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

Addresses
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 Paul Fischer
Organisational unit: Section

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

Addresses
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 Morten Brøns

Organisational unit: Section

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

Addresses
Type of address: Postal address
Street: Richard Petersens Plads
Building: 324
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
Web: http://www.compute.dtu.dk/english

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

Organisation profile
Management
Head of department: Per B. Brockhoff

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: Øroddevej 80
Postal code: 7900
City: Nykøbing M.
Country: Denmark

Phone numbers
Phone: +45 9669 0283

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, jekjp@aqua.dtu.dk
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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

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

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

Organisation profile
Headed by Dennis Lisbjerg, deli@aqua.dtu.dk
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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
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, hmo@aqua.dtu.dk
Organisational unit: Section

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

Addresses
Type of address: Postal address
Street: Kemitorvet
Postal code: 2800
City: Kgs. Lyngby
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, jd@aqua.dtu.dk
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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
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 Thomas Kierboe, tk@aqua.dtu.dk, and Ken Haste Andersen, kha@aqua.dtu.dk
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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

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

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

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

Organisation profile
Headed by Kai Wieland, kw@aqua.dtu.dk and Marie Storr-Paulsen, msp@aqua.dtu.dk
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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark
Phone numbers
Phone: +45 3588 3300
Fax: +45 3588 3333

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

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

Organisation profile
Headed by Henrik Mosegaard, hm@aqua.dtu.dk
Organisational unit: Section

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: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

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

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

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

Organisation profile
Headed by Anna Rindorf, ar@aqua.dtu.dk
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

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**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

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**Plasma Physics and Fusion Energy**

Department of Physics
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
Organisational unit: Center

Center for Fast Ultrasound Imaging
Center
Short name: Center for Fast Ultrasound Imaging

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

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

Final models of auditory processing and perception

Applications of auditory models in hearing instruments

Measurement and diagnosis of auditory function

Technical audiology and Speech perception

The is supported by three Danish hearing-aid companies Oticon, Widex and GN Resound and their foundations.

Organisational unit: Center

**Arctic Technology Centre**

Center
Short name: ARTEK

**Addresses**
Type of address: Postal address
Street: Kemitorvet
Building: 204, 2. sal
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: (+45) 4525 2166

**Web addresses**
Web: http://www.arktiskcenter.gl/English.aspx

**E-mails**
E-mail: nih@byg.dtu.dk

**Organisation profile**
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 Sanaartormik 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
Center
Technical University of Denmark
Short name: Centre

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

Imaging and Structural Analysis
Department of Energy Conversion and Storage
Short name: ISA

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

Web addresses
Web: https://www.energy.dtu.dk/english

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

Department of Energy Conversion and Storage
Technical University of Denmark
Short name: DTU Energy

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 775, P.O. Box 49
Postal code: 4000
City: Roskilde
Country: Denmark
Type of address: Postal address
Street: Fysikvej
Building: 309
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark
Type of address: Postal address
Street: Elektrovej
Building: 375
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: +45 4677 5800

Web addresses
Web: https://www.energy.dtu.dk/english

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

Atomic Scale Materials Modelling
Department of Energy Conversion and Storage
Short name: ASC

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

Phone numbers
Phone: +45 4677 5800

Web addresses
Web: https://www.energy.dtu.dk/english

E-mails
E-mail: info@energy.dtu.dk
Organisational unit: Section
Engineering Design and Product Development
Department of Mechanical Engineering
Short name: Engineering Design and Product Development

Addresses
Type of address: Postal address
Street: Produktionstorvet
Building: 426, 154
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 45 25 62 75
Fax: (+45) 45 93 15 77

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

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

Physical and Biophysical Chemistry
Department of Chemistry
Short name: Physical and Biophysical 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.biofysisk.kemi.dtu.dk/
Web: http://www.kemi.dtu.dk/English.aspx

E-mails
E-mail: isc@kemi.dtu.dk
Organisational unit: Section
Centre for Catalysis and Sustainable Chemistry
Department of Chemistry
Short name: CSC

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.katalyse.kemi.dtu.dk/

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

Radiation Physics
Center for Nuclear Technologies
Short name: Radiation Physics

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 201
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 4677 4906
Fax: +45 4677 4959

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

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

Radioecology and Tracer Studies
Center for Nuclear Technologies
Short name: Radioecology and Tracer Studies

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 201
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 46 77 53 40

Web addresses
Web: http://www.nutech.dtu.dk/NUK/RAS.aspx
Web: http://www.nutech.dtu.dk/english/Research/Radioecology

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

The Hevesy Laboratory

Center for Nuclear Technologies
Short name: The Hevesy Laboratory

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 201
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 46 77 53 31

Web addresses
Web: http://www.nutech.dtu.dk/NUK/ISO.aspx
Web: http://www.nutech.dtu.dk/english/Research/Hevesy-Laboratory
Organisational unit: Section

Center for Nuclear Technologies

Technical University of Denmark
Short name: DTU Nutech

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 201
Postal code: DK-4000
City: Roskilde
Country: Denmark

**Phone numbers**
Phone: +45 4677 4900
Fax: +45 4677 4959

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

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

**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

**Fluid Mechanics**
Department of Wind Energy
Short name: Fluid Mechanics

**Addresses**
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 118
Postal code: DK-4000
City: Roskilde
Country: Denmark

**Phone numbers**
Phone: +45 4677 5085
Web addresses
Web: http://www.vindenergi.dtu.dk/English/About/Sections/Fluid_mechanics.aspx

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

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

Test and Measurements
Department of Wind Energy
Short name: Test and Measurements

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 118
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 4677 5085

Web addresses
Web: http://www.vindenergi.dtu.dk/English/About/Sections/Test_measurements.aspx

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

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

Addresses
Type of address: Postal address
Street: Frederiksborgvej 399
Building: 118
Postal code: DK-4000
City: Roskilde
Country: Denmark

Phone numbers
Phone: +45 4677 5085

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

E-mails
E-mail: communication@windenergy.dtu.dk

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.

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

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

Phone numbers
Institute Management
National Institute of Aquatic Resources
Short name: Institute Management

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

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

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

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

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

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
Country: Denmark

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

Web addresses
Section for Aquaculture

National Institute of Aquatic Resources
Short name: Section for Aquaculture

Addresses

Type of address: Postal address
Street: Postboks 101
Postal code: 9850
City: Hirtshals
Country: Denmark

Type of address: Visiting address
Street: Willemoesvej 2
Postal code: 9850
City: Hirtshals
Country: Denmark

Type of address: Delivery address
Street: Niels Juelsvej 30
Postal code: 9850
City: Hirtshals
Country: Denmark

Phone numbers
Phone: + 45 3588 3200
Fax: + 45 3588 3260

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

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

Organisation profile
Headed by Kirsten Thomsen, kth@aqua.dtu.dk
Organisational unit: Section

Section for Freshwater Fisheries Ecology

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

Addresses
Type of address: Postal address
Street: Vejløvej 39
Postal code: 8600
City: Silkeborg
Country: Denmark

Phone numbers
Phone: + 45 3588 3100
Fax: 45 3588 3150

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

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

Organisation profile
Headed by Anders Koed, ak@aqua.dtu.dk
Organisational unit: Section

National Institute of Aquatic Resources
Technical University of Denmark
Short name: DTU Aqua

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Bygning 202
Postal code: 2800
City: Kgs. Lyngby
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
Head of Institute Fritz W. Köster, aqua@aqua.dtu.dk
Deputy Head of Institute Anders Koed, ak@aqua.dtu.dk
Organisational unit: Department

Office for Innovation & Sector Services
Administration
Short name: Office for Innovation & Sector Services
Office for Research and Relations
Administration
Short name: Office for Research and Relations

Addresses
Type of address: Postal address
Street: Anker Engelunds Vej 1
Building: 101A, 2. sal
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: 4525 1030

Web addresses
Web: http://www.dtu.dk/Om-DTU/Organisation/Administration/AFR

E-mails
E-mail: dje@adm.dtu.dk
Organisational unit: Section
**Phone numbers**
Phone: 4525 5555
Fax: 4588 8040

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

**Administration**
Technical University of Denmark
Short name: Administration

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

**Campus Service**
Administration
Short name: Campus Service

**Addresses**
Type of address: Postal address
Street: Nils Koppels Allé
Building: 402
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

**Phone numbers**
Phone: +45 4525 2525

**E-mails**
E-mail: cas@adm.dtu.dk
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
Office for Finance and Accounting
Administration
Short name: Finance Division

Addresses
Type of address: Postal address
Street: Lundtoftevej 150
Building: 266
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
Building: 101A, Ground floor
Postal code: DK-2800
City: Kgs. Lyngby
Country: Denmark

Phone numbers
Phone: (+45) 45 25 25 25
Fax: (+45) 45 87 02 16

Web addresses
Web: http://www.dtu.dk/Om-DTU/Organisation/Administration/AUS

E-mails
E-mail: uddannelse@adm.dtu.dk

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.
Organisational unit: Section

Office for HR
Administration
Short name: HR

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

Phone numbers
Phone: +45 4525 1035

E-mails
E-mail: lte@adm.dtu.dk

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
**CERE – Center for Energy Resources Engineering**

Department of Chemical and Biochemical Engineering  
Short name: CERE – Center for Energy Resources 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, electric 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
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 & Supercontinuum
Department of Photonics Engineering
Short name: Fiber Sensors & Supercontinuum

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
Structured Electromagnetic Materials
Department of Photonics Engineering
Short name: Structured Electromagnetic Materials

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

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

Organisation profile
Organisational unit: Section

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: ftag@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](http://www.elektro.dtu.dk/english)

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

**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

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

Addresses
Type of address: Postal address
Street: Kemitorvet
Building: Bygning 202
Postal code: DK-2800
City: Kgs Lyngby
Country: Denmark

Phone numbers
Phone: +45 35 88 70 00
Fax: +45 35 88 70 01
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.

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

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

**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: Bülowsvæj 27  
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Quantum Physics and Information Technology
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National Veterinary Institute
Technical University of Denmark
Short name: DTU Veterinary

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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 zoo-noses 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

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Department of Environmental Engineering
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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 refinend 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
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
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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).

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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.

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

**Addresses**
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:

Air, Land & Water Resources
Environmental Fate & Effect of Chemicals
Residual Resource Engineering
Urban Water Systems
Water Technologies

Read more about the department and its activities at the department homepage.
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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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Organisation profile
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Fax: +45 4588 2161

Web addresses
Web: http://www.polymers.dk/
Web: http://www.dpc.kt.dtu.dk/

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

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

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 2800  

**Web addresses**  
Web: http://www.chec.kt.dtu.dk/  

**E-mails**  
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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

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

**Addresses**  
Type of address: Postal address  
Street: Akademivej  
Building: 358  
Postal code: DK-2800  
City: Kgs. Lyngby  
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Organisational unit: Department