

# A world-class University



UNIVERSITY OF  
**BATH**

**1<sup>st</sup>** FOR STUDENT  
SATISFACTION  
NATIONAL STUDENT SURVEY  
2013 2014

**1<sup>st</sup>** STUDENT  
EXPERIENCE  
SURVEY 2015  
THE  
Times  
Higher  
Education  
Publication





# “ Å In a World Heritage City



UNIVERSITY OF  
**BATH**





# Å In a World Heritage City



UNIVERSITY OF  
**BATH**





# International Profile

## “ Our vision:

“ ~~to~~ be recognised as an international centre of research and teaching excellence, achieving global impact through our alumni, research and strategic partnerships+



“ 25 October 2016 marks the University of Bath's 50th Anniversary

“ Our Anniversary celebrations are taking place in Bath and all around the world over the next 12 months



# Facilities



- “ £30 million Sports Training Village (STV), renowned as one of the best in the UK
- “ 24 hour library
- “ 1600 computers on campus
- “ Dedicated Student Support Services
- “ NUS/UKCISA Internationalised StudentsqUnion of the Year 2015



# Investment



- “ We are investing £100m in our campus:
- “ A new hub for learning and teaching
- “ More high quality accommodation
- “ New Centre for the Arts
- “ Updated and expanded learning and research spaces
- “ Find out more at [www.bath.ac.uk/campus-investments](http://www.bath.ac.uk/campus-investments)



# Facts and Figures

- “ Modern campus . 2km from the city centre
- “ 17,000 students enrolled (11,000 UG & 5,000 PG)
- “ Over 30% come from outside the UK - representing over 100 nationalities
- “ 230 exchange students
  
- “ 54% male students
- “ 46% female students
  
- “ **Employability**
  
- “ Ranked 5th for graduate employment after six months in The Guardian University Guide 2017
  
- “ Our alumni are in the top ten for graduate earnings
  
- “ Links with over 7,000 employers



# National Rankings and Reputation

- “ In **Top 15** of national league tables (**10<sup>th</sup>** in The Guardian)
- “ **First** in the Times Higher Education 2015 Student Experience Survey
- “ In the 2016 National Student Survey, the overall satisfaction of our students was **90%** - four points above the national average of 86% for UK Higher Education Institutions
- “ The Times and The Sunday Times Good University Guide 2016 ranked us **7<sup>th</sup>** nationally for graduate



# International Rankings and Reputation

- “ **159th** in the 2015/16 QS World University Rankings
- “ **154th** in the 2016 Leiden Ranking  
(up from 179th last year)
- “ Bath has been ranked as the **number 1** university in Europe and **7th globally** in the QS  $\pm$ Top 50 under 50q
- “ **64th** for Employer Reputation in QS
- “ **82nd** (top 20%) in 2016 THES International Outlook Ranking



# Research at Bath

- “ We are committed to excellence in research, with a focus on real-world impact and a true spirit of interdisciplinary collaboration
- “ Our research grants and contracts portfolio is worth around £120 million
- “ We have over [40 Research Centres and Institutes](#) ranging from Aerospace Engineering to Water Innovation and Work & Employment

# Research at Bath





# Brunel University

## Our History

Established as Brunel University in 1966  
Contemporary of Bath, Warwick and Loughborough  
Excellent research links with industry, commerce and  
the professions  
Market leader in sandwich courses  
Outstanding graduate employment record



# Campus

“£300 million of investment in buildings and facilities has ensured that the University’s campus is one of its major assets;

“outstanding residential accommodation 4,549 rooms;

“a £6.5-million outdoor sports complex and a £7-million indoor athletics and netball centre;

“award-winning Assistive Technology Centre for disabled students;

“academic facilities that include flight, driving and train simulators, 3D body scanner, motion-capture equipment and MRI scanner, occupational therapy suite, extensive sports labs and performing arts studios.







# Our People . Staff, Students and Alumni

**“2,454 Staff**

- **1,263 Academic**
- **1,191 Support**



**“13,504 Students**

- **9,724 Undergraduate (12% overseas)**
- **2,717 Master's (42% overseas)**
- **1,063 Doctoral (50% overseas)**

**“Students from >130 countries**

**“Excellent record of widening participation**

**“Over 100,000 Alumni scattered across the globe**

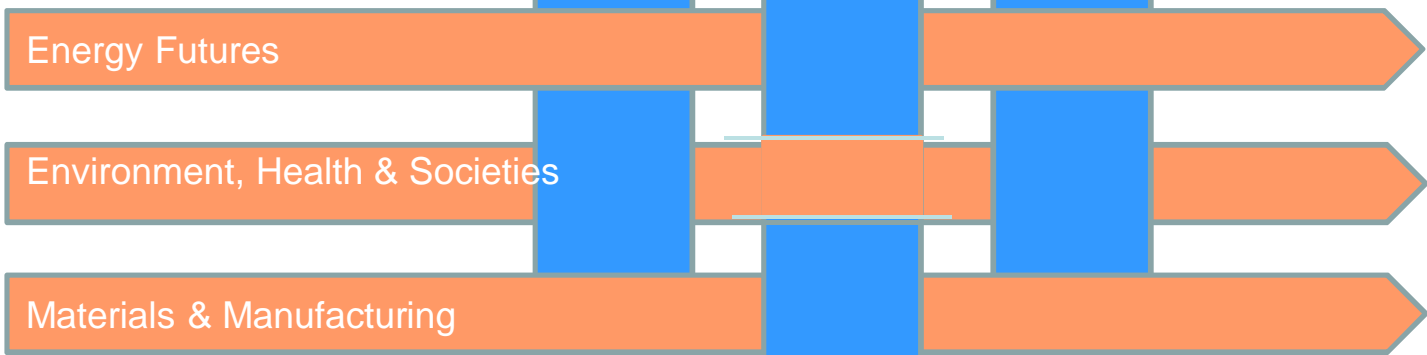


# Brunel University London

- 3500 Engineering students
  - 100s of research collaborations with business
- 13<sup>th</sup> largest income from Innovate UK
- 33<sup>rd</sup> largest share of HEFCE QR funding
- 33<sup>rd</sup> largest EPSRC portfolio
- Two prestigious IMRCs from EPSRC
- Two UKRPIF awards from HEFCE

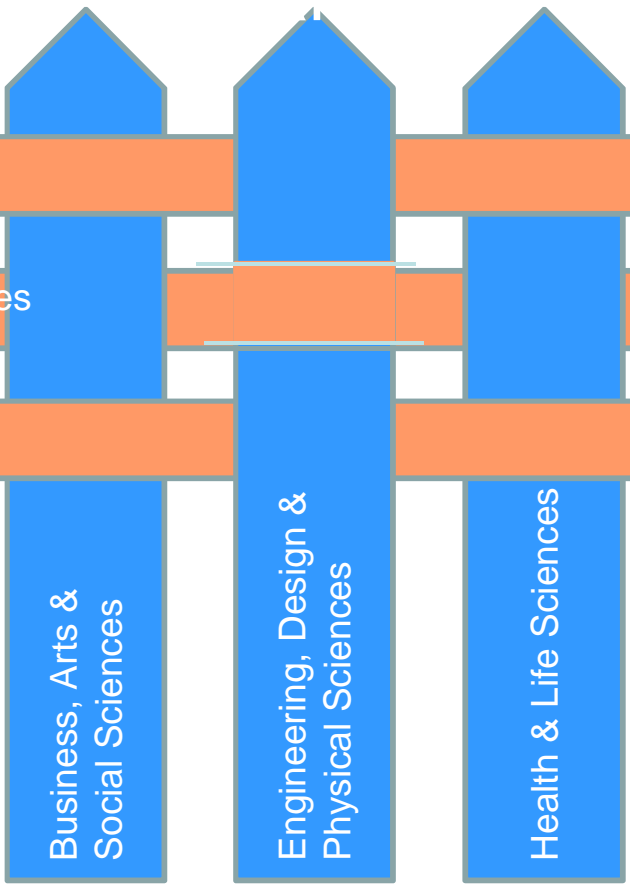


Research Support  
& Development  
Office



Research  
Institutes

Colleges



Brunel Educational Excellence  
Centre

Professional Development Centre

Ground-breaking  
Interdisciplinary  
research



# Research Themes

## Energy Futures

Advanced Powertrain and Fuels  
Energy efficient and Sustainable  
Technologies  
Smart Power Networks  
Resource Efficient Future Cities

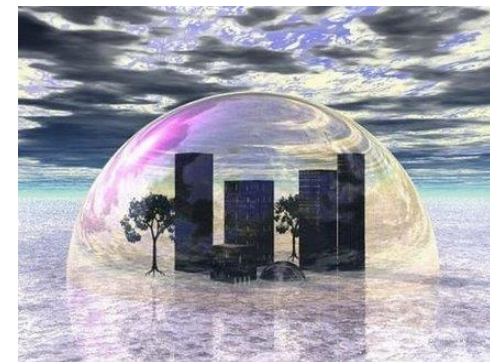


## Materials and Manufacturing

Structural Integrity  
Liquid Metal Engineering  
Micro-Nano Manufacturing  
Materials Characterisation and Processing  
Design for Sustainable Manufacturing

## Environment, Health and Societies

Environment and Health  
Ageing Studies  
Synthetic Biology  
Biomedical Engineering  
Health Economics



# Our successes are reflected in the rankings

- “ Ranked 93<sup>rd</sup> in the world and 10<sup>th</sup> in the UK for Engineering and Technology
- “ One of the world’s top universities under 50 years old; currently at number 35
- “ In the top 10% of universities worldwide for International outlook



# Our vision

To be world leading, within all its specialist areas of science, engineering, technology, design and business

**Research  
intensity**

**Truly global  
education**

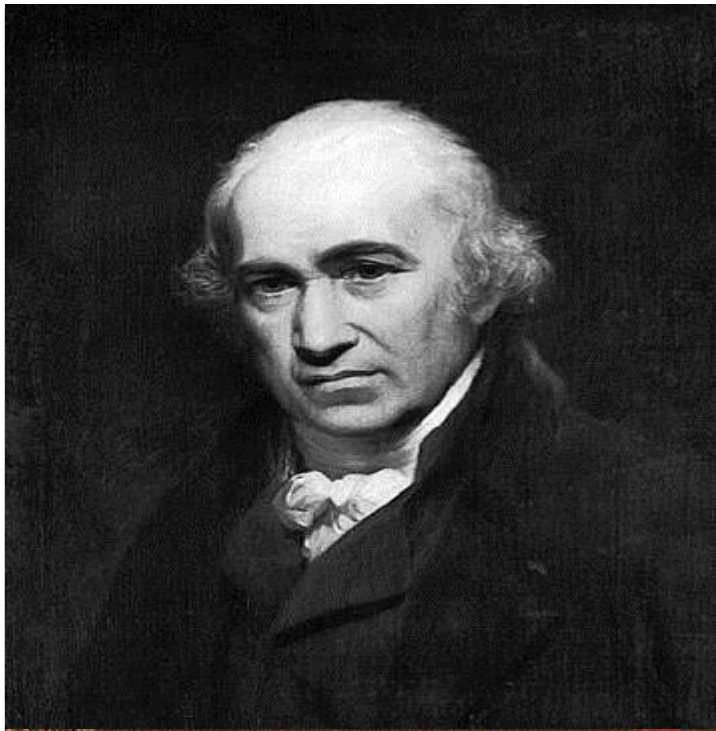
**Excellent  
student  
experience**

**Highly  
employable  
graduates**



# Our history

- “ Founded in 1821 as the world’s first Mechanics Institute
- “ Eighth oldest higher education institution in the UK

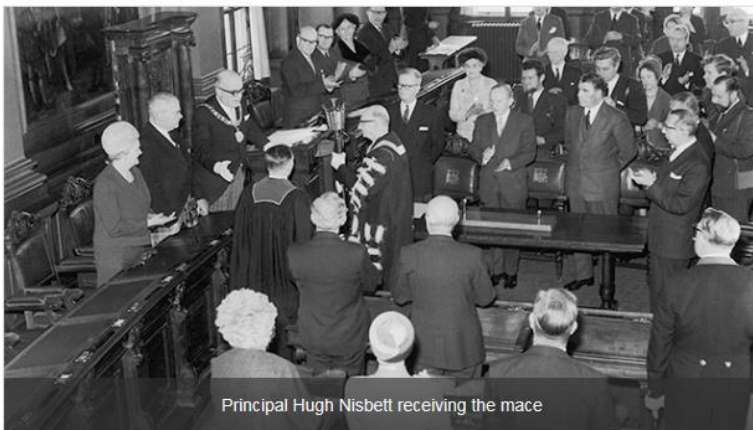


**George Heriot**, financier to King James VI and benefactor of education in Edinburgh (1563 - 1623)

**James Watt**, the great 18<sup>th</sup> Century Scottish engineer and pioneer of steam power

# 50 Years

## Royal Charter - 50th anniversary



Principal Hugh Nisbett receiving the mace

2016 marks 50 years since Heriot-Watt was awarded a Royal Charter. The Royal Charter, which gave Heriot-Watt its University status, was granted by Queen Elizabeth II on 4 March 1966. The Royal Charter was awarded in recognition of Heriot-Watt's long-standing heritage, strengths,



*Celebrating our  
Royal Charter*

**A top 100 University under 50 years**  
Heriot-Watt University was ranked 72 in the first international league table, coming 15th in the UK, and 3rd in Scotland.

Heriot-Watt scored highly in the "International Mix" category, ranking 14th overall – this category looks at diversity on campus, how much each university's academics collaborate with international colleagues on research projects, the ratio of international to home staff, and the proportion of total research journal publications with at least one international co-author.

# A global university



- “ Edinburgh
- “ Scottish Borders
- “ Orkney
- “ Dubai
- “ Malaysia



# Highly ranked



- “ Guardian University Guide 2016 - ranked 18th in the UK and 2nd in Scotland
- “ Ranked joint 3<sup>rd</sup> in Scotland and 28<sup>th</sup> in the UK in the National Student Survey 2015
- “ Times/Sunday Times Good University Guide 2015 - 38th out of 127 institutions in the UK and 5th in Scotland

# World-class research



- . 82% of research world-class (ranked 3\* or 4\*)
- . 22nd in the UK and 2nd in Scotland for  $\pm$  impactq
- . 33rd in the UK overall

Research Excellence Framework  
(REF) 2014

# Leading global thinking



“Robotarium . robotics and autonomous systems

“Centre for High Speed Rail

“The Lyell Centre for Earth and Marine Technology

“Shell Centre for Exploration Geosciences

“Centre for Doctoral Training in Oil and Gas (NERC)

“SU2P . photonics research with Stanford and Caltech

“Scottish Confucius Institute



# Applied learning and teaching



- “ School of Engineering and Physical Sciences
- “ School of Mathematical and Computer Science
- “ School of Energy, Geoscience, Infrastructure and Society (EGIS)
- “ School of Life Sciences
- “ School of Textiles and Design
- “ School of Management and Languages
- “ Edinburgh Business School

# Innovative alliances



**British Geological Survey**  
NATURAL ENVIRONMENT RESEARCH COUNCIL



**TOTAL**



**HYDRAFACT**

**RENISHAW**   
apply innovation™



SCOTTISH  
ACADEMY  
— OF —  
FASHION



MAXWELL INSTITUTE FOR  
MATHEMATICAL SCIENCES

# Existing Links with UNICAMP

- “ HWU-UNICAMP MoU Signed 2013
- “ HWU . FAPESP Memo Signed 2014
- “ Active HWU-UNICAMP Cotutelle discussions
- “ Brazil Strategy Group

<https://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/research/brazil-strategy-group.htm>



The University  
of Konstanz  
at a Glance



# Young University

- 1966** Foundation of the University and first lectures  
(Contemporary of University of Ulm)
- 1972** Opening of the new university campus
- 2006 / 2007  
und 2012** Success in the Excellence Initiative



# The Founding Principles of the University

- “ A departmental structure and a **flat hierarchy**
- “ An **interdisciplinary** approach to research, manifested in a **‘campus university’**
- “ Strict **performance-based** internal funding allocation
- “ Efficient centralised **research** and **administrative services**



# Mission Statement . Expanding the Culture of Creativity

“Our overarching strategic goals are:

**Promoting** creative processes in research by fostering Å

- . top-level research and research-oriented teaching
- . young researchers
- . internationalisation

**Optimising** research conditions

**Practicing** equal opportunity **and** family friendly policies

**Strengthening our** public dialogue **and** community engagement

# The Advantages of a Small Campus University



Students: 11,776  
Staff: 2,189  
Professors: 194

# Faculties and Departments

## “Faculty of Sciences

- “ Mathematics and Statistics
- “ Computer and Information Science
- “ Physics
- “ Chemistry
- “ Biology
- “ Psychology

## Faculty of Humanities

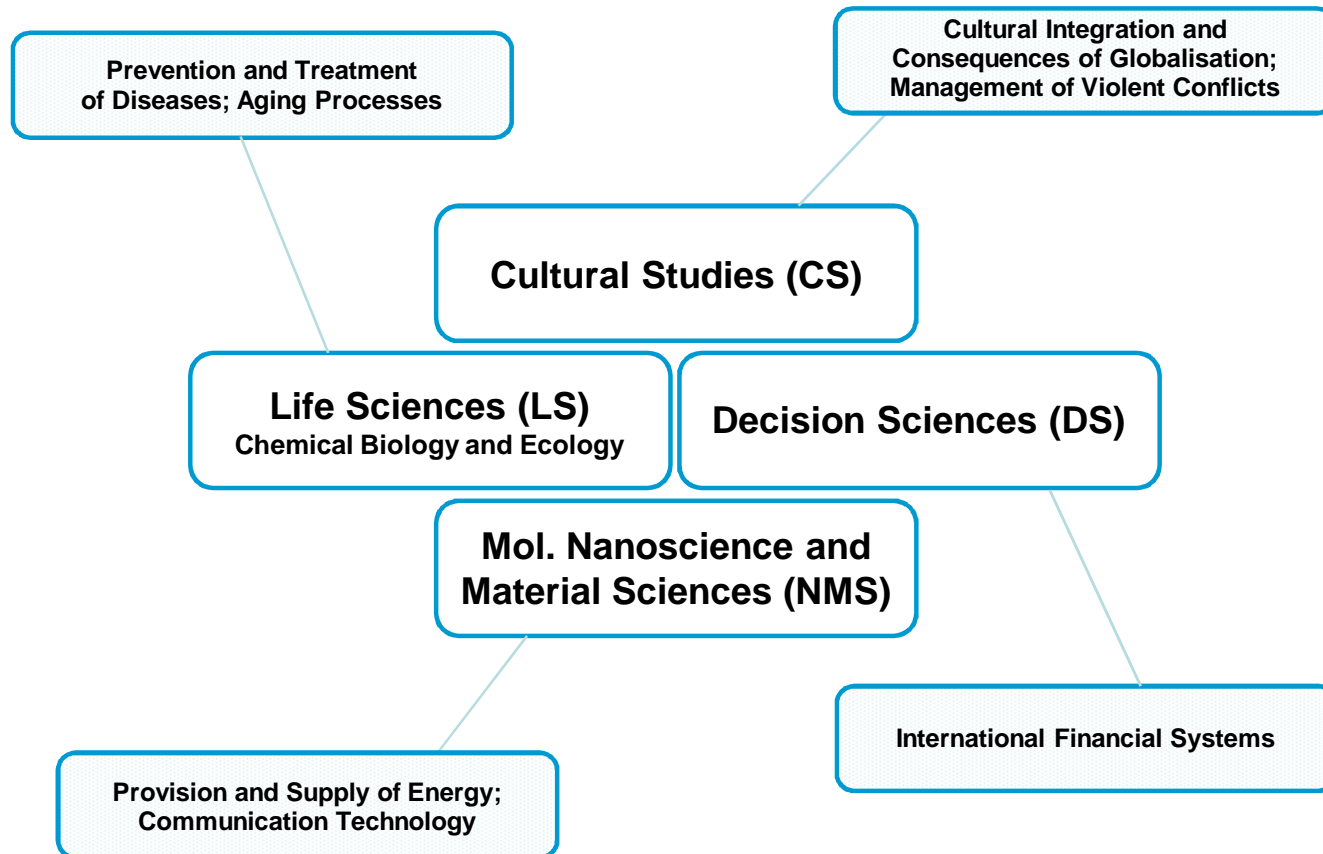
- Philosophy
- History and Sociology
- Literary Studies
- Linguistics

## Faculty of Politics, Law and Economics

- Politiks and Public Administrations
- Law
- Economics



# Our Research Profile . Supporting Solutions to Global Challenges

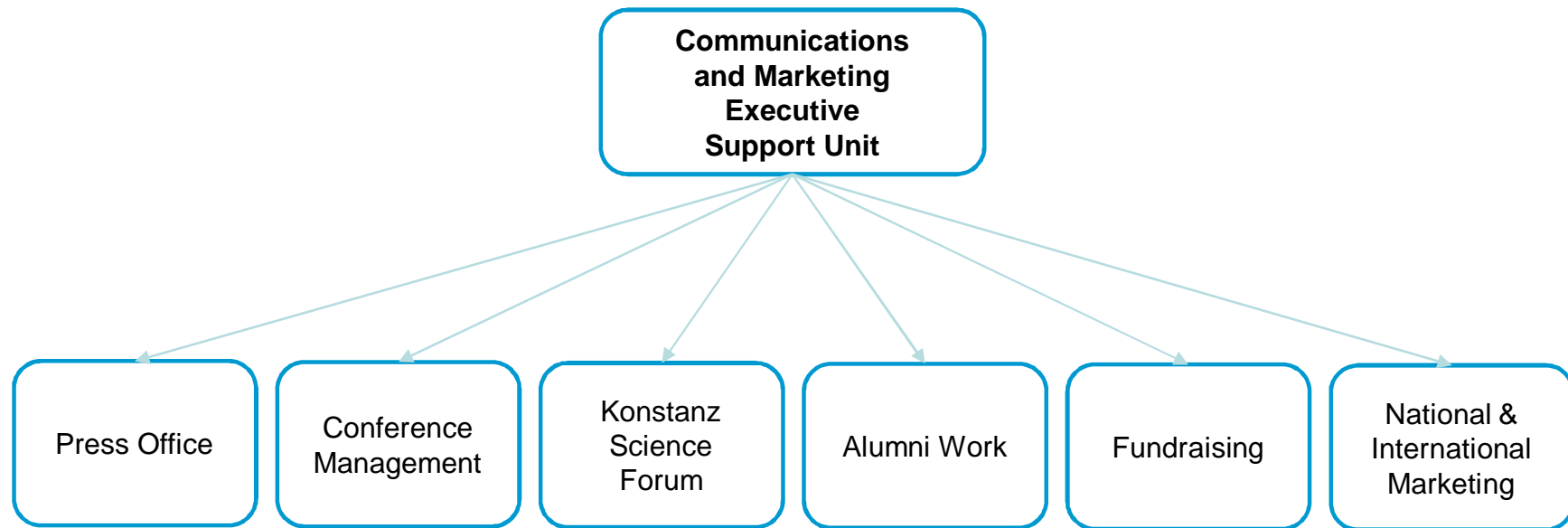


THE-Ranking sTHE 150 under 50  
Years‰  
In the World No. 7, in Germany No.  
1



# Public Dialogue and Community Engagement

**Improved efficiency** by pooling all activities at the interface between the university and the general public as well as its further target groups

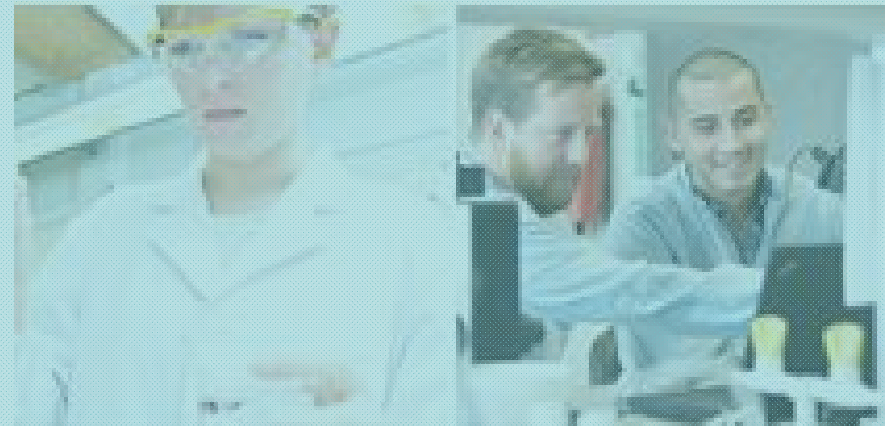




# University of Southern Denmark



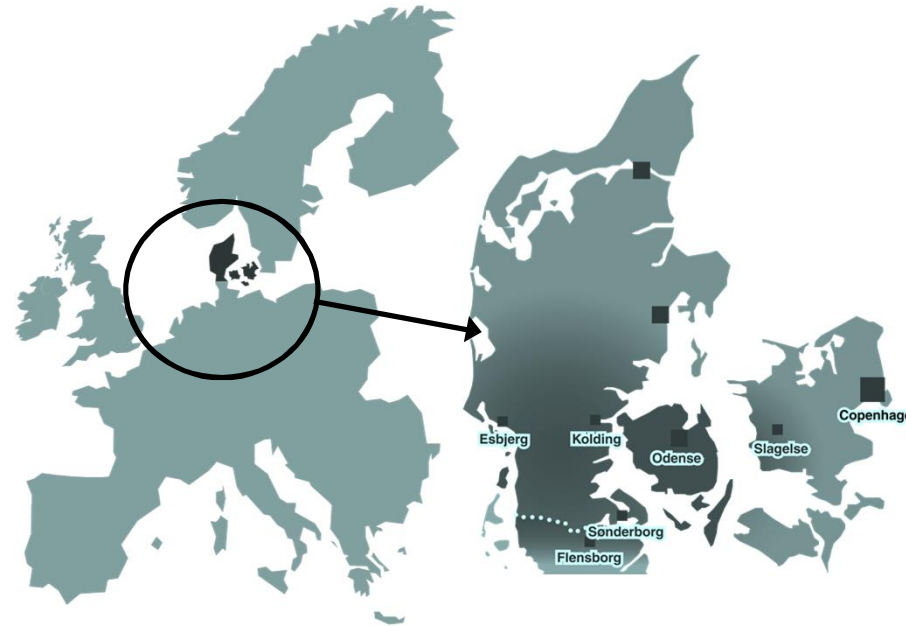
**Jin Mi Triolo**  
**September 2016**



- “ National institution
- “ Five faculties . Humanities, Science, Engineering, Social Sciences and Health Sciences
- “ 32 departments
- “ 6 Campuses, minly located in the southern part of Denmark
  
- “ Established in 1966 . Odense University (four faculties: Humanities, Social Sciences, Health Science and Natural Sciences).
- “ 1998 : Merged with the Southern Denmark School of Business and Engineering and the South Jutland  University Centre      University of Southern Denmark..



# SDU in Denmark





# University of Southern Denmark (SDU)

**Employees**      **4,000**  
**Students**        **32,000**  
**PhD students**   **1,000**

<b>Ranking</b>	<b>2015</b>
THE World Universities Ranking	301-350
Shanghai ARWU	269
URAP, University Ranking of Academic Performance	258

**Faculty of  
Engineering**

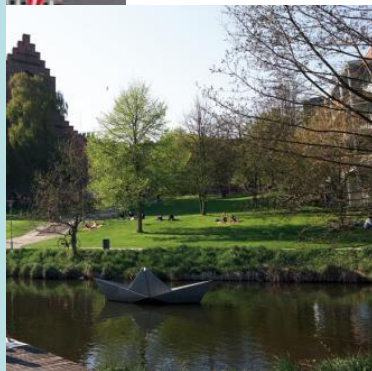
**Faculty of  
Health  
Sciences**

**Faculty of  
Humanities**

**Faculty of  
Sciences**

**Faculty of  
Business and  
Social Sciences**

# se - Main Campus



- “ The 3<sup>rd</sup> largest city in Denmark
- “ 200,000 PE.
- “ Hometown of H.C Andersen

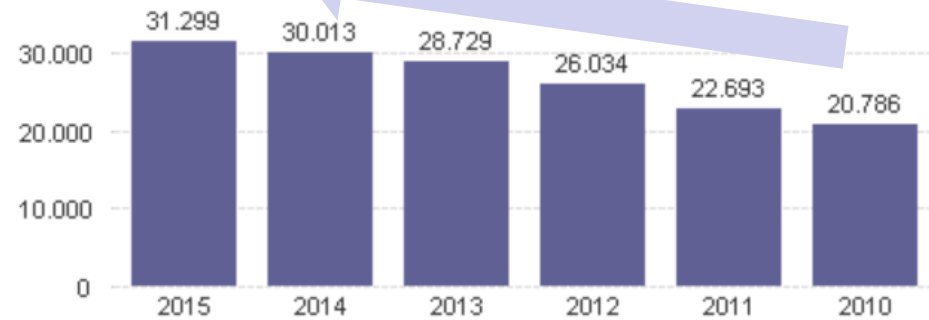
# Faculties and campuses

Faculty of	Odense	Kolding	Esbjerg	Sønderborg / Flensburg	Slagelse	Copenhagen
Health Sciences	✓		✓			✓
Science	✓					
Engineering	✓			✓		
Business and Social Sciences	✓	✓	✓	✓	✓	
Humanities	✓	✓	✓	✓		

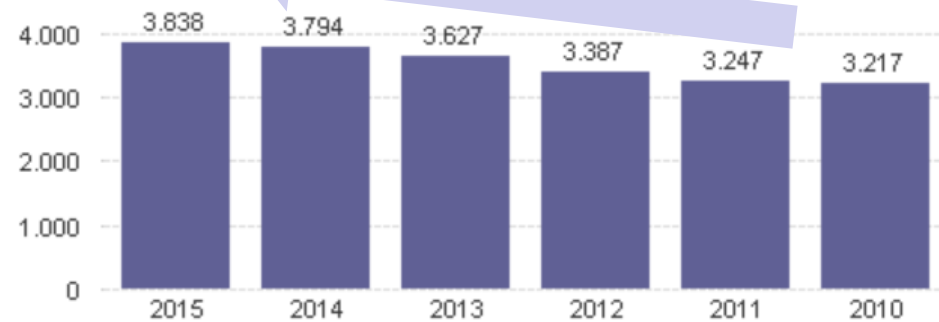




# Students 2010-2015



# Staff 2010-2015



# Programmes 2015/16

**SDU offer 222 bachelor and master programmes (77 in English)**

- . 85 bachelor programmes (13 in English)
- . 137 master programmes (64 in English)

**and**

- . 21 professional master programmes
- . 11 diploma programmes (continuing education at the level of BA or MA)
- . Part time studies



# Faculty of Engineering

Dean:  
Henrik Bindslev



## Sections

- “ Active Living and Health Informatics
- “ **Biotechnology (Bioenergy)**
- “ Chemical Engineering
- “ Design
- “ Electrical Engineering
- “ Embodied Systems for Robotics and Learning
- “ Innovation and Entrepreneurship
- “ Mechatronics
- “ SDU Mechanical Engineering
- “ SDU Civil Engineering
- “ SDU Design Engineering
- “ SDU Robotics
- “ Software Engineering

## Centers

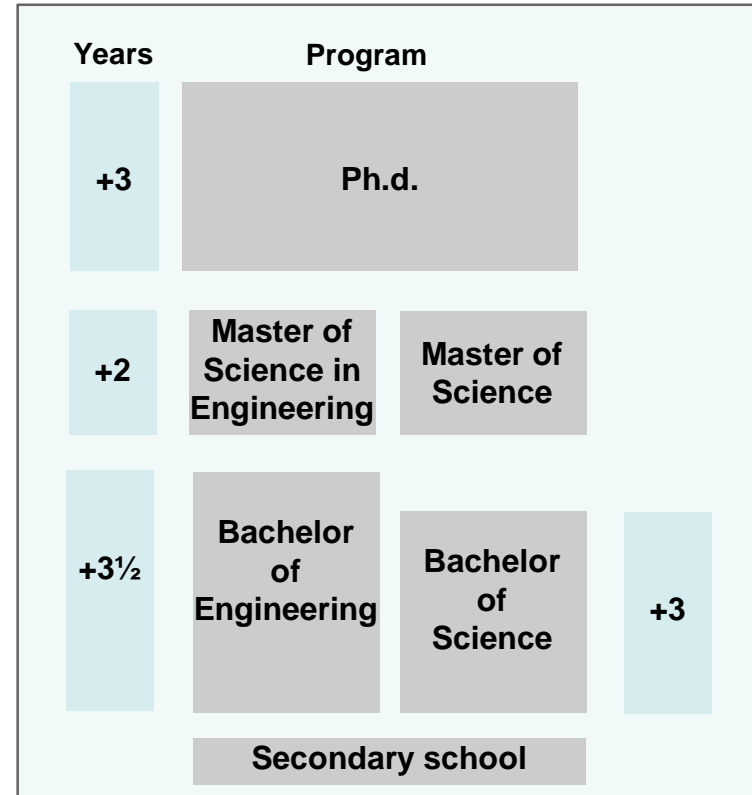
- “ **Center for Energy Informatics**
- “ Centre for Integrative Innovation Management
- “ Centre for Life Cycle Engineering
- “ Centre for Nano Optics
- “ Centre for Sustainable Engineering Operations Management
- “ NanoSYD
- “ SDU UAS Center
- “ TEK Innovation
- “ TEK Technology

# Faculty of Engineering

## Program overview

Program	International	Danish
Exchange, 1 year program Bachelor level	13	
Exchange, 1 year program Master level	12	
Bachelor of Engineering	3	8
Bachelor of Science	3	3
Master of Science	2	1
Master of Science of Engineering	10	

## Study structure





# Faculty of Engineering

## Exchange Programs

### Recommended Study Path

#### Exchange for bachelor students:

- Chemical Engineering
- Information and Communication Technology
- Innovation and Business
- Integrated Design
- Interaction Design
- Learning and Experience Technology
- Manufacturing and Management
- Mechanical Engineering
- Mechatronics Engineering
- Product Development - bachelor level
- Robot Systems
- Software Engineering
- Structural Engineering

#### Exchange for master students:

- Electronics
- Applied Physics
- Chemical Engineering
- Environmental Engineering
- Innovation and Business
- IT Product Design
- Learning and Experience Technology
- Mechatronics Engineering
- Product Development and Innovation
- Robot Systems
- Software Engineering
- Operations Management

#### Exchange programs is also offered by:

Faculty of Science, Humanities, Social Science and Health Science



# Faculty of Engineering

## Exchange Agreements



Erasmus, Bilateral and Nord Plus



# Faculty of Engineering

## The Engineering Education Model of the University of Southern Denmark (DSMI)

n DSMI applies to all engineering study programs

n Through a project based and holistic approach, DSMI focuses on the development of the students' academic, personal and learning competences. Keywords are:

- n Problem based learning
- n Student involvement
- n Responsibility
- n Working in teams
- n Creativity
- n Integration of “real” industry problems

