IN THIS PRESENTATION:

1. INTRODUCTION
2. BACK IN 1964
3. A GLOBAL NAME IN RESEARCH
4. UNIVERSITY OF...
5. INNOVATIVE EDUCATION
6. FACTS & FIGURES
7. LET'S DO BUSINESS!
• Combining technical and social sciences to make a difference in society
• Most entrepreneurial university
• Cross-disciplinary way of working
• Internationally oriented
• Innovative and vibrant campus
• Engineering approach to social challenges
• Core technologies: Nanotechnology, Biomedical Engineering, IT, Robotics, Geo-informatics
• Highly personal education
• Track record in value creation
OUR STORY
2. HISTORY
ANNOUNCEMENT OPENING THT IN ENSCHEDE: 1961

OPENING: 1964

VISIT ROYAL FAMILY: 1964
FIRST ENGINEER: 1969

OPEN DAY: 1971

BIOMEDICAL TECHNOLOGY: 2001
TECHNICAL MEDICINE: 2003
ITC BECOMES PART OF UT: 2010

UNIVERSITY COLLEGE TWENTE: 2013

STRATEGIC BUSINESS DEVELOPMENT: 2014
3. A GLOBAL NAME IN RESEARCH
BEAUTIFULLY LOCATED IN THE NETHERLANDS, GATEWAY TO EUROPE
Are you travelling for study, work—or just to visit new places? Do you want to travel comfortably, but limit your impact on the environment as much as possible?

This map shows what destinations can easily be reached by train instead of airplane—and how much CO₂ you save by choosing this option. The University of Twente considers the train the default mode of travel for all these destinations.
RESEARCH THEMES

IMPROVING HEALTHCARE BY PERSONALIZED TECHNOLOGIES

CREATING INTELLIGENT MANUFACTURING SYSTEMS

ENGINEERING OUR DIGITAL SOCIETY

SHAPING OUR WORLD WITH SMART MATERIALS

ENGINEERING FOR A RESILIENT WORLD
FACULTIES

SCIENCE AND TECHNOLOGY (TNW)

ELECTRICAL ENGINEERING, MATHEMATICS AND COMPUTER SCIENCE (EEMCS)

BEHAVIOURAL, MANAGEMENT AND SOCIAL SCIENCES (BMS)

ENGINEERING TECHNOLOGY (ET)

GEO-INFORMATION SCIENCE AND EARTH OBSERVATION (ITC)
UNIVERSITY OF TWENTE. | TECHMED CENTRE

Fundamental and applied research of technology in healthcare
Largest Dutch research institute in the field of ICT & applications
UNIVERSITY OF INTERNATIONAL SYNERGIES.

- We develop knowledge in, and for, an international context
- Many international students
- Outstanding educational level
- Impressive, state-of-the-art facilities
5. INNOVATIVE EDUCATION
We equip students to take their place in society as international professionals and global citizens both keen and capable to take on the challenges our world faces.
Headline-grabbing student teams:
• Solar Team Twente
• Green Team Twente (hydrogen car)
• Solar Boat Twente
• Electric Superbike Twente (MotoE)
• DroneTeam Twente
• Esports Team Twente
• RoboTeam Twente
EXAMPLES OF INNOVATIVE EDUCATIONAL FEATURES:

- SmartXP labs
- ECTM-lab
- State-of-the-art facilities
- Virtual Reality Lab
- Classroom of the future: blended learning
- Design Lab: the embodiment of our multi-disciplinary design philosophy
• 20 Bachelor of Science programmes
• 37 Master of Science programmes
• PhD & EngD programmes
• Twente Graduate School
• Professional Learning and Development
BSc PROGRAMMES

SCIENCE
- APPLIED MATHEMATICS
- APPLIED PHYSICS (NL)

ENGINEERING
- UNIVERSITY COLLEGE TWENTE
- ADVANCED TECHNOLOGY
- BIOMEDICAL TECHNOLOGY (NL)
- BUSINESS & IT
- CHEMICAL SCIENCE & ENGINEERING
- CIVIL ENGINEERING
- CREATIVE TECHNOLOGY
- ELECTRICAL ENGINEERING
- INDUSTRIAL DESIGN ENGINEERING
- MECHANICAL ENGINEERING
- TECHNICAL COMPUTER SCIENCE
- TECHNICAL MEDICINE (NL)

SOCIAL & MANAGEMENT
- COMMUNICATION SCIENCE
- HEALTH SCIENCES (NL)
- INDUSTRIAL ENGINEERING & MANAGEMENT
- INTERNATIONAL BUSINESS ADMINISTRATION
- MANAGEMENT, SOCIETY & TECHNOLOGY
- PSYCHOLOGY
MSc PROGRAMMES

ENGINEERING
- Chemical Science & Engineering
- Civil Engineering & Management
- Construction Management & Engineering
- Electrical Engineering
- Environmental & Energy Management
- Industrial Design Engineering
- Mechanical Engineering
- Transdisciplinary Master-insert: Shaping Responsible Futures
- Water Technology

INFORMATION TECHNOLOGY
- Business Information Technology
- Computer Science
- Embedded Systems
- Interaction Technology
- Robotics
- Science Education & Communication (NL)
- Systems & Control

HEALTH TECHNOLOGY
- Biomedical Engineering
- Health Sciences
- Psychology
- Technical Medicine (NL)

NATURAL SCIENCE
- Applied Mathematics
- Applied Physics
- Chemical Science & Engineering
- Geo-information Science and Earth Observation
- Geo-information Science & Earth Observation for Environmental Modelling & Management
- Geographical Information Management & Applications
- Nanotechnology
- Spatial Engineering
- Sustainable Energy Technology

SOCIAL & MANAGEMENT
- Business Administration
- Communication Science
- Educational Science & Technology
- European Studies
- Industrial Engineering & Management
- Methodology & Statistics for the Behavioural, Biomedical & Social Sciences
- Philosophy of Science, Technology & Society
- Public Management (NL)
- Public Administration
- Risk Management (NL)
- Educational Science & Technology
GRADUATE SCHOOL
STRUCTURED PHD PROGRAMMES
More information at www.utwente.nl/tgs
PART TIME MASTER PROGRAMMES

PUBLIC MANAGEMENT (MPM)

RISK MANAGEMENT (MSC)
ENGINEERING DOCTORATE (ENGD)

CIVIL ENGINEERING

ENERGY & PROCESS TECHNOLOGY

MAINTENANCE

BUSINESS & IT

ROBOTICS

• 2 YEARS PROGRAMME FOR GRADUATED MSC STUDENTS
6. FACTS & FIGURES
FUNDING (IN M€)

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Government Funding</td>
<td>261.4</td>
</tr>
<tr>
<td>Contract Based Research</td>
<td>88.3</td>
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<tr>
<td>Tuition Fees</td>
<td>31.1</td>
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<tr>
<td>Other</td>
<td>21.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>401.8</td>
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</tbody>
</table>

Facts & Figures 2020

- **Total NR Students**: 12,903
- **Master's Students**: 4,653
- **Bachelor's Students**: 7,530
- **Doctoral Degrees Awarded**: 206
- **Degrees Awarded**
  - Undergraduate: 1,532
  - Graduate: 1,738

University of Twente
**FACTS & FIGURES 2021**

**SCIENTIFIC OUTPUT**

- **Referred Publications**: 2,706
- **Spin-off Companies since 1984**: 1000

**CAMPUS AREA**

- **Area**: 146 hectares

**UNIVERSITY RANKINGS**

- **461 Leiden Ranking**
- **201-250 Times Higher Education Supplement (THES)**
- **212 QS World University Rankings**
- **401-500 Academic Ranking of World Universities (ARWU)**

**Student Apartments**: 2,631

**Staff Housing**: 60

**Cultural Associations**: 18

**Sport Associations**: 60
KEUZEGIDS UNIVERSITEITEN 2022 - HIGHLIGHTS

OVERALL 4TH OF ALL 14 UNIVERSITIES
AVG SCORE OF 21 BACHELOR PROGRAMMES 64.5
UT CLIMBS 2ND PLACE TO 4TH

No 1 IN SUBJECT 13
IMPROVED SCORE 8

- APPLIED PHYSICS
- CHEMICAL SCIENCE & ENGINEERING
- COMMUNICATION SCIENCE
- INDUSTRIAL ENGINEERING & MANAGEMENT
- TECHNICAL MEDICINE

UNIVERSITY OF TOP RATED EDUCATION.
UNIVERSITY OF TWENTE.
YOUR ACCESS TO A
WORLD WIDE COMMUNITY
OVER 56,000 ALUMNI
LIVING IN 172 COUNTRIES

THE NETHERLANDS
38,578

GERMANY
2,786

USA
950

UK
588

CHINA
1,114

INDIA
644
7. LET’S DO BUSINESS!
Let’s Do Business!

As a research university with a strong focus on the development of technology and its impact on people and society, we attract ambitious, entrepreneurial students from around the world. Our hands-on attitude, along with our unrivaled network of international businesses and institutes, makes us Europe’s most entrepreneurial university. We’re pioneers.

- Strategic Business Development: strengthening cooperation between the university and industry
- 900 spin-off companies
- 10,000 jobs created in the region
- Best Business Park in the Netherlands (2013)
SUCCESSFUL SPIN-OFF COMPANIES
OPEN INNOVATION CENTERS
dsm-firmenich proposals for Marie Curie Post-Doc fellowships

Filip Oosterlinck
Introduction dsm-firmenich

Four complementary business units, one common purpose

From fragrances to farming, meals to micronutrients, our business units address the latest consumer needs and wants to help our customers realize their ambitions – and bring progress to life.

In Perfumery & Beauty, we delight the world with superior scents created from a palette of sustainable ingredients.

In Taste, Texture & Health, we partner with the food and beverage industry to overcome the trade-off between palate and planet.

In Health, Nutrition & Care, we deliver critical nutrients for proactive health in every stage of life and every sort of lifestyle.

In Animal Nutrition & Health, we power the production of sustainable animal protein, transforming global food systems for good.
Introduction to Taste, Texture and Health
Post-doc will take place at the Center for Food Innovation (Biotech Campus, Delft, The Netherlands)

We bring progress to life
Tackling some of societies’ biggest challenges

Nourishing a growing global population – sustainably
Ending hunger
Effective & affordable Healthcare
Food loss & waste
7 potential projects:

**For more details – please reach out and we will contact you**

1. Building an extrusion model for pilot line extruder for TVPs and HMEs

2. Develop a protein matrix base for vegan cheese, using DSM-Firmenich’s proteins.

3. Expand our range of (specific) proteases and/or protein modifying enzymes for functional proteins.

4. Encapsulation (of minerals, flavor, nutrition) by natural components (yeast cell walls, proteins, fibers, pectins).

5. Setting up a versatile genetic toolbox for an unconventional industrial fungal system to speed up strain development for enzyme production

6. CFD-assisted bioreactor design for single cell protein production from novel C-sources and O2 enriched ingas

7. Developing quantitative insight in molecular interaction of proteins produced by precision fermentation with the process matrix to safeguard protein functionality and optimize process productivity
Contact details

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We bring progress to life™