HUCBMS 2019

TU Dublin
- Ireland’s First Technological University

A New Approach to Higher Education

Professor David FitzPatrick
President
TU Dublin
Technological Universities are long standing across the globe

TU Dublin – 1st in Ireland but ...
TU – Mission Statements

**WATERLOO**
where students come to learn how to tackle global challenges

**AALTO**
A community of bold thinkers where science and art meet technology and business — Become a Game Changer.

**TWENTE**
Embracing a bold new set of ambitions and raising the bar even higher

**EINDHOVEN**
The world of 2030 will be different from the world we live in now. Our university is going to play a key role in shaping our future

**AUS TECH**
Solutions with REAL world impact

**GEORGIA TECH**
Leaders in influencing major technological, social and policy decisions that address critical global challenges
National Strategy for Higher Education to 2030

Objectives:

• Increase participation, equality of access & lifelong learning in higher education;

• Excellent teaching & learning and quality of student experience and opportunities;

• High quality, internationally competitive research and innovation;

• Enhanced engagement with enterprise and the community and embedded knowledge exchange; and

• Enhanced internationalisation

Published Jan 2010
<table>
<thead>
<tr>
<th>Rank</th>
<th>Metros</th>
<th>No. of top 500 Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>London</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>Paris</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>Seoul</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>Cambridge, Melbourne, New York</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Hong Kong</td>
<td>6</td>
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<tr>
<td>6</td>
<td>Chicago, Stockholm, Sydney, Tokyo, Washington, DC</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Barcelona, Brussels, Copenhagen, Dublin, Liège, Los Angeles, Milan, Moscow, Philadelphia</td>
<td>4</td>
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12 TUs - Discipline Comparison

Top 3 Disciplines:
#1 Engineering
#2 Science
#3 Business
Top 3 IoTs Strategic Themes:
1. Research & Innovation
2. Education
3. Enterprising Organisation

Top 3 Uni Strategic Themes:
1. Research & Innovation
2. Education
3. Joint 3rd
   1. Student Experience
   2. Enterprising Org.
   3. Community & Society
TU Top Level Strategic Themes

Top 3 Strategic Themes:

• Research & Innovation *(91% of the 11 TUs investigated)*
• Joint 2\textsuperscript{nd} Themes (73%)
  • Student Experience/Campus Life
  • Enterprising Organisation
  • Community/Society/Industry

- **2011** - Technological Universities proposed (Hunt Report)
- **2012** - TU for Dublin Alliance committed to establishing a Technological University for Dublin.
- **2016** - TU Bill lapsed with the dissolution of the 31st Dáil.
- **2016/17** – TU4D Programme Team established.
- **2017/18** – TU4D Programme Plan Developed.
- **2018** – TU Act passed; Application for TU designation
- **2019** - 1st January – TU Dublin legally established
TU Dublin at a Glance

• 28,500+ Students

• 2019/20 Intake > 5,000 (Levels 6, 7 & 8)

• 13% of all Higher Ed students in Ireland

• ~20% of new entrants via HEAR, DARE & Access programmes

• >25% of all apprenticeship provision

• 2,300 Staff

• Leader in Life long learning and executive education opportunities

• 3,350+ International Students
TU Dublin – Education in Biomedical Science – ~ 60 year history

1962 – first course educating Medical Laboratory Technicians
1966 – first Certificate/Diploma Course
1990 – first degree programme (awarded with University of Dublin, TCD)
2001 – first degree awarded from Dublin Institute of Technology (TU Dublin)
Biomedical Science Programmes in TU Dublin

BSc (Hons) Biomedical Science (DT204)
- 40 students
- 501 points
- Clinical Placement 30 weeks
- Professional or Statutory Regulation ACSLM and IBMS. CORU

MSc Clinical Laboratory Science (DT236P)
- 20 students
- Entry mainly Medical Scientists
- Research project
- Professional Accreditation ACSLM and IBMS.

CPD Certificate Histopathological Dissection (DT9200) – Joint with Faculty of Pathology, RCPI
- 20 students
- Entry Requirement: Medical Scientist
- 1 year part-time programme
- RCPI, ACSLM

CPD Molecular Cervical Cytopathology Joint with Coombe W&I University Hospital (launch Sept 2019)
- Up to 10 students
- Upskilling of Medical Scientists
- 15 ECTS
- CPD Certificate in Molecular Cervical Cytopathology

CPD Medical Device Decontamination (DT7201)
- 20 students
- Working in hospitals (CSSD), dental practices
- One semester part time
- CPD Medical Device Decontamination

BSc (Hons) Biomedical and Molecular Diagnostics (DT206)
- 25 students
- 476 points
- Placement 14 weeks
- In-vitro diagnostic Industries

Placement 14 weeks
- CPD Certificate in Molecular Cervical Cytopathology
Technological University Dublin - Biomedical Science Recognition

CPD Histopathological Dissection Graduation 2017 (unique programme)

Undergraduate student Labcon Prizewinners

School Annual Research Day

The Irish Laboratory Awards
- Education Laboratory of the Year 2016
- Shortlisted finalist 2017
- Winner 2018

BSc (Hons) Biomedical Science
~40 graduates annually
TU Dublin - Development of Biomedical Science

Underpinned by research in biomedical science & engineering

Extended scope of practice:
- Advanced practice for Medical Scientists
- Med Tech Industry – graduates for Molecular Diagnostic Industries (IVD)
- Continued collaboration with Medical Science Profession, Pharmaceutical, Med Tech and In-vitro Diagnostic Industries

Future Opportunities:
- Research
- Extended scope of practice
- Med Tech Industries
Sample of TU Dublin Start-up Companies
TU Dublin Campuses

- City (1887)
- Blanchardstown (1999)
- Tallaght (1992)
Grangegorman Campus 2020

The largest Irish investment in Higher Education in a century, Grangegorman will be home to 10,000 TU Dublin students by September 2020

Central Quad

East Quad
Grangegorman 1950s
Grangegorman Campus - Masterplan

- Business
- Library
- Tourism & Food
- Science
- Engineering & Built Environment
- Performance and Applied Arts
- Student Hub
- Student accommodation
- Sports
- Science Industry Park
- Primary School
- Research
- Industry Park
Grangegorman - Campus Development
Driving Urban Regeneration

Grangegorman Campus and Partners

- Employment Creation
- Social Capital and Cultural Development
- Human Capital and Skills Development
- Civic Engagement & Social Inclusion
- Innovation, Research & Technology Transfer
- Urban Regeneration
- Dublin/Regional Capacity Building

Human Capital and Skills Development

Social Capital and Cultural Development

Civic Engagement & Social Inclusion

Innovation, Research & Technology Transfer

Urban Regeneration

Dublin/Regional Capacity Building

Employment Creation

Grangegorman Campus and Partners
The SDG pillars which were most strongly emphasised by stakeholders for TU Dublin 2030 were:

- Planet
- People
- Partnership
THANK YOU

TU Dublin - Infinite Possibilities!