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 – 1\textsuperscript{st} 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

**GEORGIA TECH**
Leaders in influencing major technological, social and policy decisions that address critical global challenges

**AUS TECH**
Solutions with REAL world impact
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
Dublin - A Technology Hub
#BestUniCity

<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>
</tr>
<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>
</tr>
</tbody>
</table>
12 TUs - Discipline Comparison

Top 3 Disciplines:
#1 Engineering
#2 Science
#3 Business
IRL IoTs Top Level Strategic Themes

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 2nd 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)
<table>
<thead>
<tr>
<th>Programme</th>
<th>Students</th>
<th>Entry Requirements</th>
<th>Duration</th>
<th>Key Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Hons) Biomedical Science (DT204)</td>
<td>40</td>
<td></td>
<td></td>
<td>501 points, Clinical Placement 30 weeks, Professional or Statutory Regulation ACSLM and IBMS. CORU</td>
</tr>
<tr>
<td>MSc Clinical Laboratory Science (DT236P)</td>
<td>20</td>
<td>Entry mainly Medical Scientists</td>
<td>Research project</td>
<td>1 year part-time programme, Entry Requirement: Medical Scientist, RCPI, ACSLM and IBMS.</td>
</tr>
<tr>
<td>CPD Certificate Histopathological Dissection</td>
<td>20</td>
<td></td>
<td></td>
<td>1 year part-time programme, RCPI, ACSLM</td>
</tr>
<tr>
<td>CPD Molecular Cervical Cytopathology (DT9200)</td>
<td>Up to 10</td>
<td></td>
<td></td>
<td>1 year part-time programme, RCPI, ACSLM</td>
</tr>
<tr>
<td>CPD Medical Device Decontamination (DT7201)</td>
<td>20</td>
<td></td>
<td></td>
<td>CPD Certificate Medical Device Decontamination</td>
</tr>
<tr>
<td>BSc (Hons) Biomedical and Molecular Diagnostics (DT206)</td>
<td>25</td>
<td></td>
<td></td>
<td>476 points, Placement 14 weeks, CPD Certificate Molecular Cervical Cytopathology, CPD Certificate Medical Device Decontamination, In-vitro diagnostic Industries</td>
</tr>
</tbody>
</table>
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
Ireland's 1st Technological University

Programmes

- 7.5k Graduates p.a.
- 8.5k Part time Students
- +28k Students

% Breakdown of Disciplines

- STEM (incl. Engineering): 34%
- Business & Law: 28%
- Arts & Humanities: 13%
- Services: 7%
- Health & Welfare: 42%

Diversity

- 16% Mature
- 13% Access
- 15% Disability
- 2500 International Students across 100 countries

Research Impact

- +400 Sustainable Businesses
- €200m Equity Investment
- €655m Value to Community
- 1,700 Jobs Created

Employment Prospects

- 85% Graduates in employment or in further education, within 9 months of graduating

Infinite Possibilities

- 1:20 Staff : Student Ratio
- +3.5k Academic & Support Staff
- 46% Female Staff
- +€500m Planned Investment
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
- Performance and Applied Arts
- Tourism & Food
- Research
- Engineering & Built Environment
- Student Hub
- Primary School
- Science Industry Park
- Student accommodation
- Sports
Grangegorman - Campus Development
Driving Urban Regeneration

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

Civic Engagement & Social Inclusion

Social Capital and Cultural Development

Human Capital and Skills Development

Employment Creation

Dublin/Regional Capacity Building

Grangegorman Campus and Partners
TU Dublin
Strategy, Impact & UN SDG’s

The SDG pillars which were most strongly emphasised by stakeholders for TU Dublin 2030 were:

- Planet
- People
- Partnership
TU Dublin
- Infinite Possibilities!

THANK YOU