

Building research capacity & Internationalization and Doctoral Education at the University of Luxembourg

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**Building research capacity & internationalization in
doctoral education**

The University of Luxembourg

Where is Luxembourg ?



How large is Luxembourg ?

	Luxembourg	Uzbekistan	Tashkent
Size (km^2)	2 586	448 978	335
Population (Million)	0,56	> 31	> 2,3

The University of Luxembourg

What is the 2003 founded University of Luxembourg ?

As of 2015



- 3 Faculties, 2 interdisciplinary centers
- 6172 Students - Bologna index = 39,9%
- Budget : 206 M Euros
- Contribution of the State : 148 M Euros (71,8 %)
- Research-driven university :
 - Security and trust
 - Neuro-degenerative disease
 - European and Business law
 - Finance
 - Learning and teaching in a multi-lingual and multi-cultural environment

The University of Luxembourg

How international is the University of Luxembourg ?

As of 2015



- Languages : French, English, German and Letzeburgesch
- Students :
 - 109 nationalities (1 student from Uzbekistan)
 - 43% Nationals
 - 57% **from the rest of the world**
- Programs :
 - Mandatory mobility in Bachelor
 - Bi-lingual or tri-lingual programs in Bachelor
 - English often in Master
 - PhD's : it depends
- Academic Staff : 375 FTE - **72 % foreigners**

Selected Outputs of a Research-Driven University

- Scientific publications and citations
- External income
- Rankings

Publications and citations

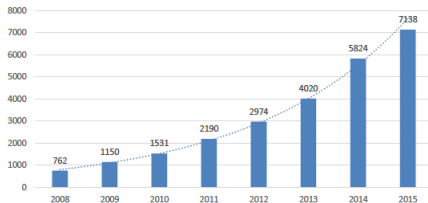
Publications per researcher

Art.4 La qualité et l'efficacité de la recherche se définissent par les indicateurs suivants: [...] L'intensité de publication dans des revues ou « proceedings » à comité de lecture : 2 publications par année et par enseignant-chercheur en équivalent « recherche ETP ».



Research indicators

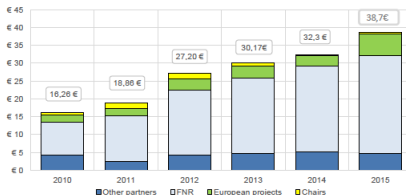
Number of citations - Web of Science



External research income

Research indicators

External research revenues (millions of Euro)



EU research funding

Art.17(4) Pour le financement externe de la mission de recherche, l'Université s'engage sur un taux de 14% provenant des programmes de recherche 7e programme cadre et horizon 2020 de l'Union Européenne





World Academic Summit - Melbourne (Sept. 2015)

N^0 193 for the World University Rankings

Young Universities Summit - Barcelona (April 2016)

- 14th under 50
- 8th under 40, 7th under 30, 3rd under 20



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**The University of Luxembourg is the 2nd
most international worldwide**

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**Not today's subject... Let us rather address
the angle of doctoral education**

Doctoral Education

- Legal framework :
 - PhD Candidate holds a master degree in a relevant field
 - 3 to 4 years for a PhD
 - PhD advisor + so-called thesis committee (2 outsiders)
 - Evaluation made on the basis of a manuscript
 - Public defense with an international board
 - Encouragement to publish BUT no obligation
- The PhD Candidates :
 - Very strong selection
 - Most get a salary paid by the university
 - They teach a little (up to 90 TU a year)

Doctoral Education

- The PhD Advisors :
 - Our professors are recruited internationally, and a growing proportion is worldclass
 - They propose realistic scientific problems
 - Problems can be blue-sky research or with a stronger emphasis on practical orientations
 - Strong scientific challenge in both cases
- After the defense
 - Most Graduates DO NOT GO TO ACADEMIA
 - Hence it is important to prepare them to a broader environment
 - Transversal skills

Summary

Luxembourg

- One single university in a small country
- A research-intensive university
- Well financed, highly international
- Highly selective, with PhD students from everywhere

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Uzbekistan

- Uzbekistan faces strong challenges in HE & R
- Building capacity can have different meanings
- Having universities with a reasonable level of scientific impact is one thing
- Building a world-class university is another
- Excellence initiatives : Germany, France, China, Russia, ...
- Elite moves to the east : Hong Kong, Singapour, China ...

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MANY THANKS !