

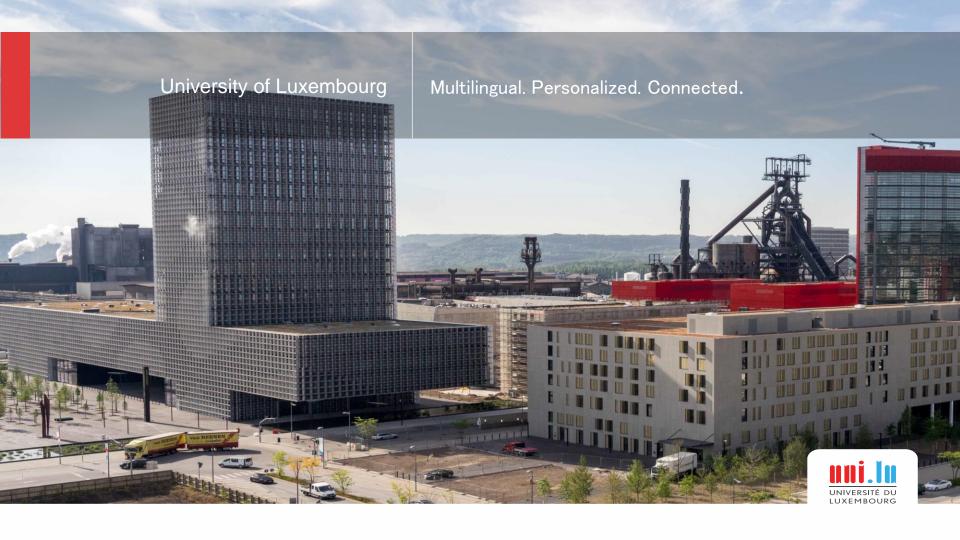
# Engineering at the University of Luxembourg

# **University of Luxembourg**

**Aerospace Research Activities** 

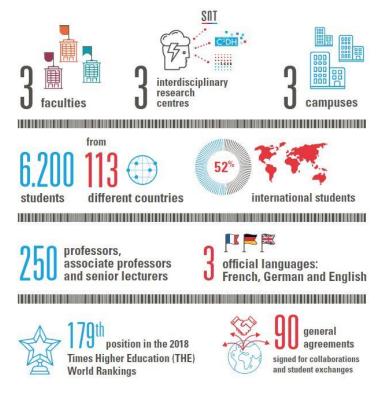
Edder Rabadan Santana and Prof. Stephan Leyer Research Unit in Engineering Science (RUES)

Faculty of Science, Technology and Communication (FSTC)



# **University of Luxembourg – Key Figures**





# University of Luxembourg – Faculties and Research Centres





Faculty of Science, Technology and Communication



Faculty of Law, Economics and Finance



Faculty of Language and Literature, Humanities, Arts and Education







# Faculty of Science, Technology and Communication (FSTC)



- Creation: 2003 as a merged of 2 former institutions
  - Institut Supérieur de Technologie (IST), 1916
  - Département des Sciences of the Centre Universitaire du Luxembourg

# Location: the FSTC is located on 3 campus sites

**KIRCHBERG** 



Engineering

LIMPERTSBERG



 Physics and Materials Science

**BELVAL** 



- Computer Science
- Mathematics
- Laboratory for Photovoltaïcs
- · House of Biomedicine
- · Life Sciences

### **Research Units at the FSTC**





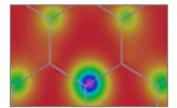
Computer Science and Communications (CSC)



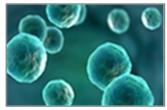
Engineering Sciences (RUES)



Mathematics (RMATH)



Physics and Materials Science (PHYMS)



Life Sciences (LSRU)

# **Aerospace Related Activities**



#### Research activities/fields

- Mechatronics, robotics
- Ground antenna Galileo
- Satellite communications
- Space based observation
- Global Navigation Satellite System (GNSS)
- Geodetic observation: terrestrial, airborne and space-borne gravity measurements

Space Masters Program coming in 2019!









# LuxCube Program: first CubeSat project in Luxembourg



#### Student-driven project

#### LuxCube objectives:

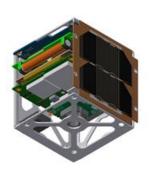
- Training of engineering students to design, build, test and operate space hardware
- Develop in-house know-how and increase research activities in Luxembourg
- Contribute to strength the links between the space industry and UL

#### Mission objectives:

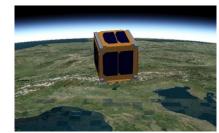
- Educational training
- Farth observation
- Technology demonstration: thin-film solar cells

#### Status:

- Kick-off: September 2018
- Team of 14 students
- Expected launch: 2020



LuxCube preliminary systems layout



LuxCube flying over central Europe towards Luxembourg



LuxCube kick-off presentation on 20 September, 2018, Jan Thoemel (Gomspace), Agnieszka Lukaszczyk (Planet Lab.), Edder Rabadan, Stephan Leyer and Andrija Djordjevic (Uni Lu).



# Engineering at the University of Luxemburg



**Villmools Merci**