

The logo of Leibniz University Hannover, featuring the year 1737 in a stylized, stacked format: 1737.

1737

Leibniz  
Universität  
Hannover

A wide-angle photograph of the main building of Leibniz University Hannover, a large, ornate, light-colored stone structure with many arched windows and a prominent central tower. In the foreground, there is a green lawn, a bronze statue of a rearing horse on a pedestal, and a person riding a bicycle. The sky is blue with some clouds. A semi-transparent white banner is overlaid across the middle of the image, containing the university's name.

# Leibniz University Hannover

Cooperation with Ukraine: Academic Exchange  
and Mobility Projects  
Nataliya Butych, International Office



# Content

- Facts and Figures
- Overview of the LUH cooperation with Ukraine (selection)
- Academic mobility and exchange with Ukraine at LUH (selection)
  - DAAD Eastern Partnerships
  - Erasmus+
  - DAAD Open Educational Resources with Ukraine
  - Synergies for education and research
- Recommendations



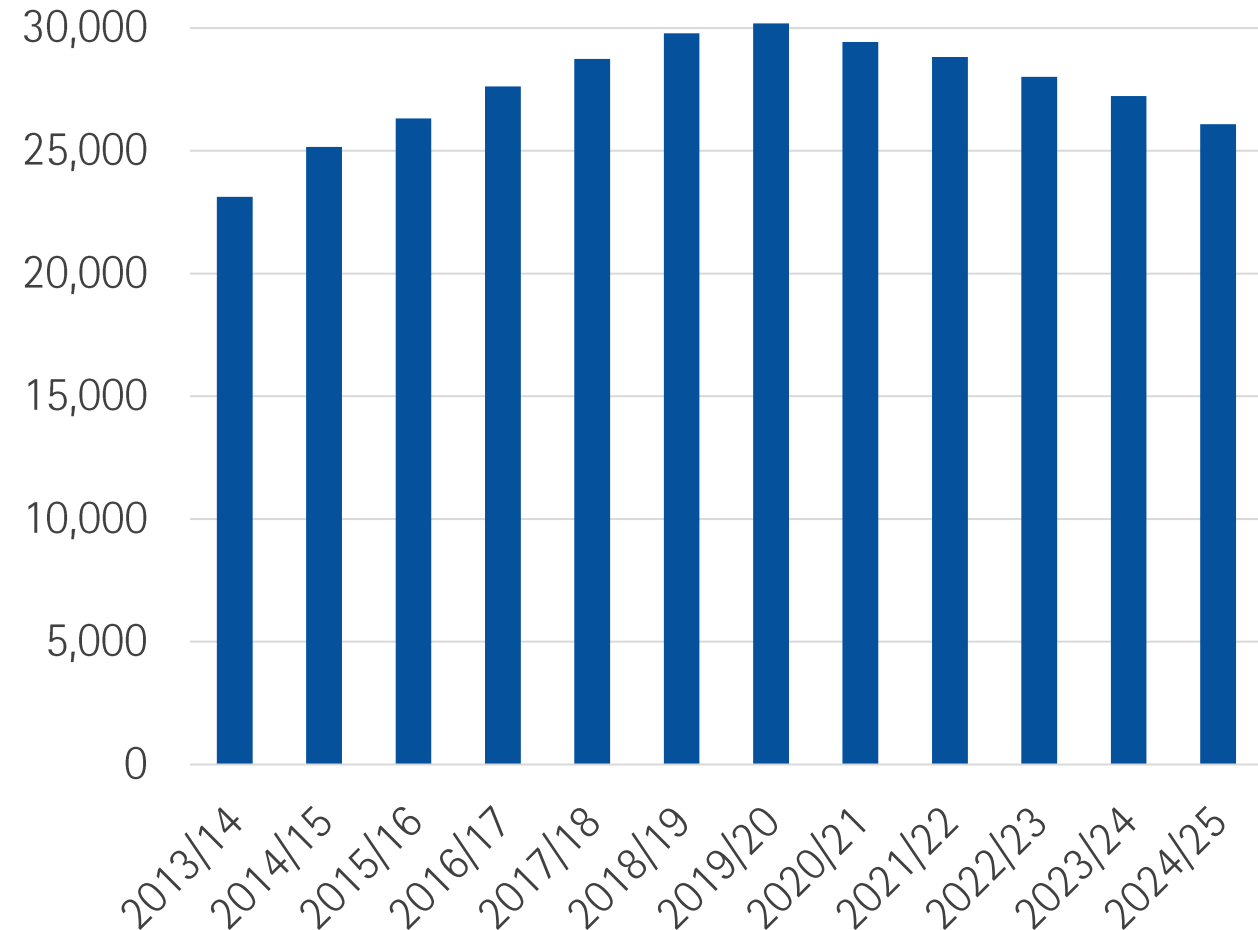


# Students at LUH

**26,079** in WS 2024/25

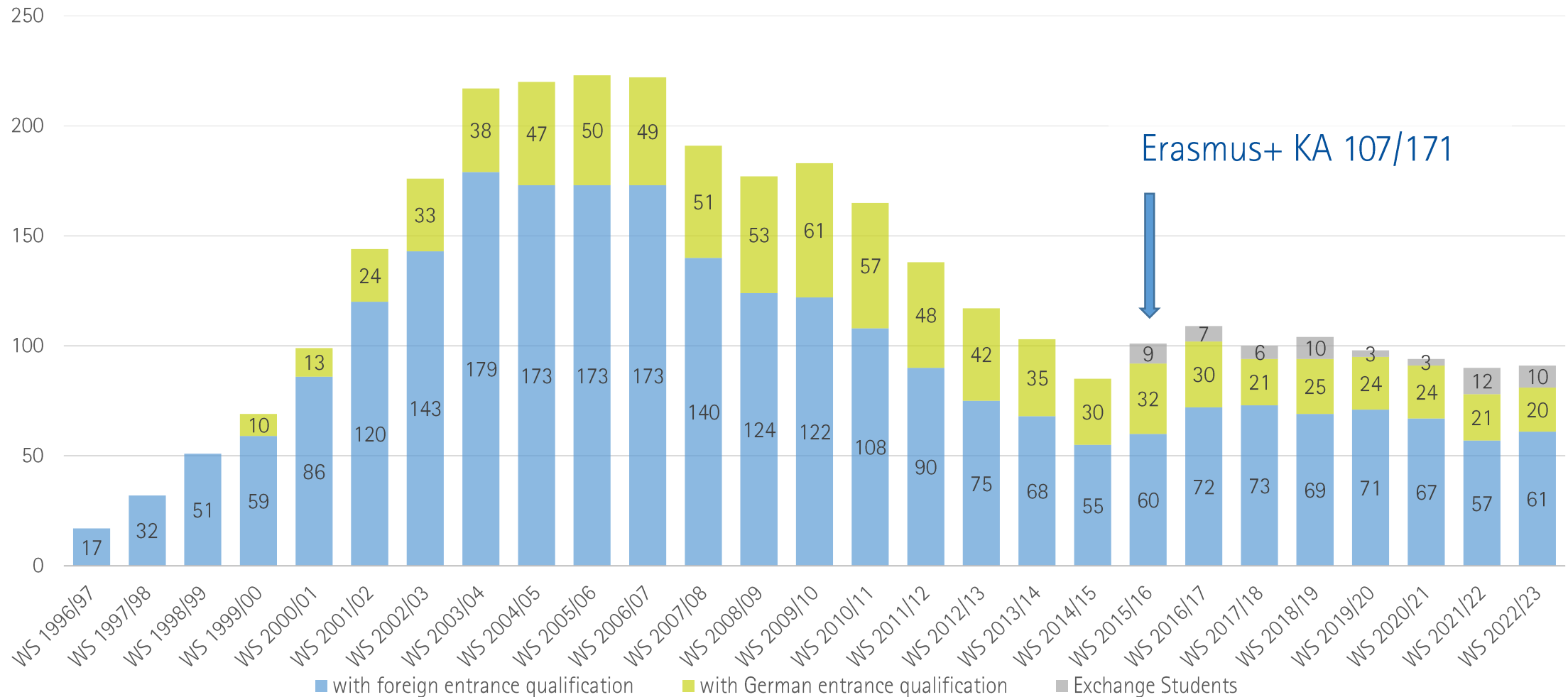
**44%** female

**15%** international



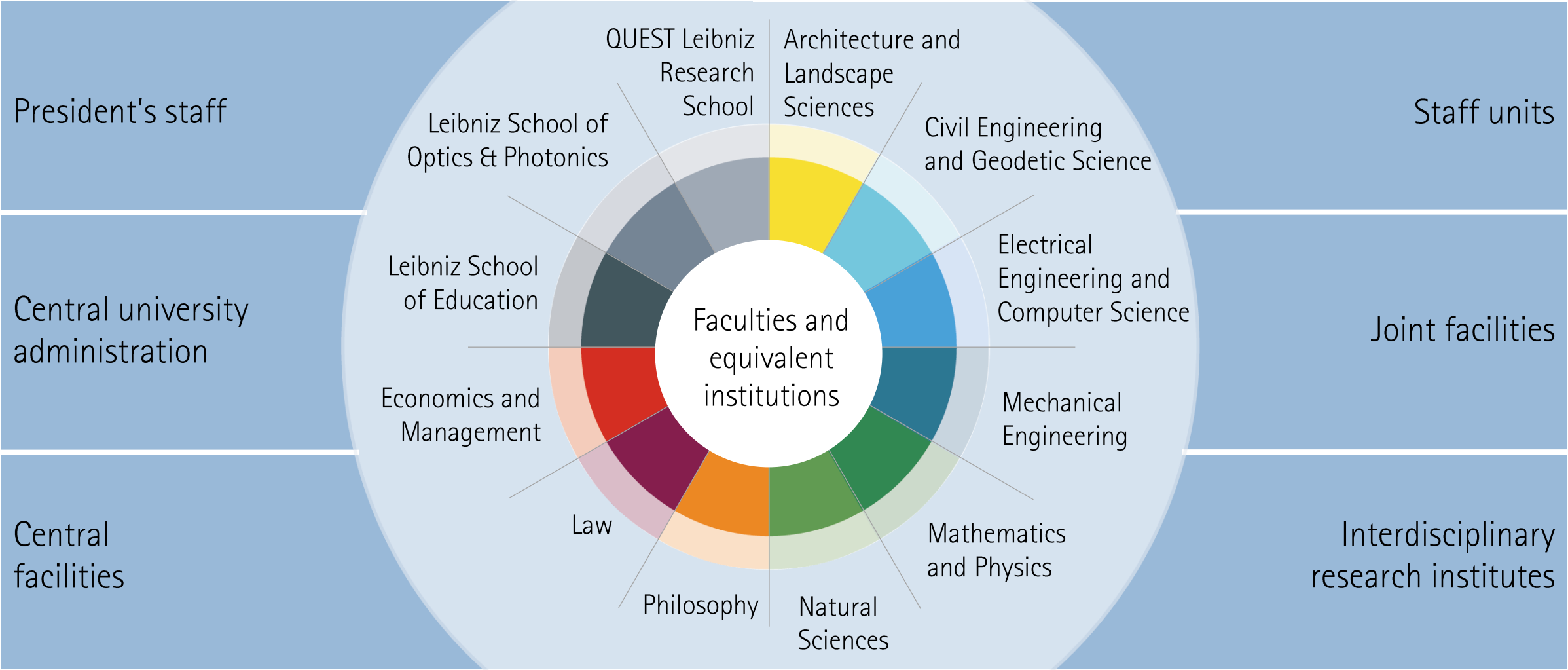


# Students with Ukrainian Citizenship at LUH





# University: Organisational Chart





# International Office

- Part of the „presidential staff“, not „pure“ administration
- Self-understanding of the international office as an institution that **provides services and support for the faculties**
- **AND strategic planning** at the same time
- Not academic, but administrative staff (no teaching, no research)
- No regular job rotation
- Specific amount of autonomy

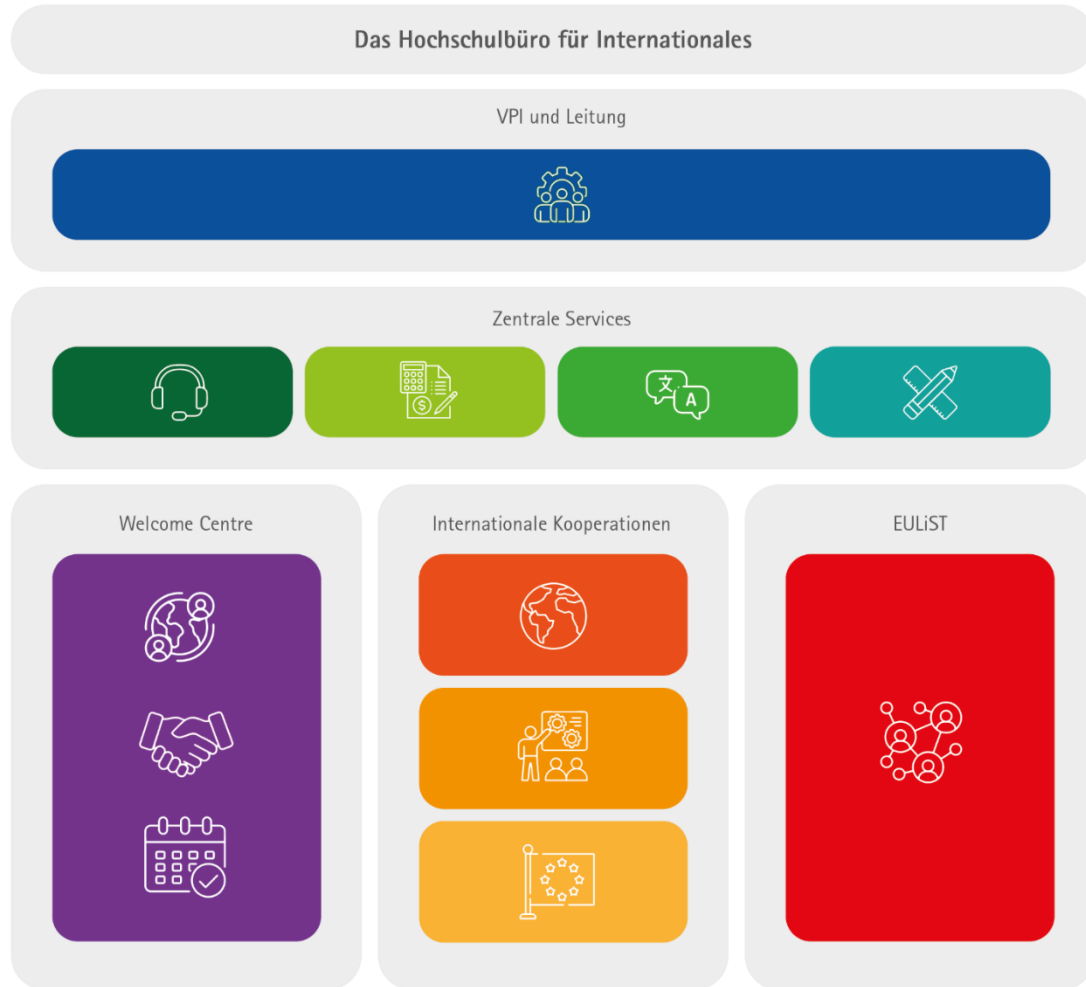


- 30 Staff members
- own annual budget
- quick decisions possible
- strategic planning together with president, and vice president





# International Office





## International Office

Support during the different phases of a stay at LUH





# International Office: Regional Coordinators

Main tasks within the region:

- Implementation of the Internationalisation Strategy
- Expansion of established and initiation of new partnerships and projects
- Coordination of cooperation and mobility programmes
- Acquisition of third-party funding
- Consultancy and marketing
- Delegation visits
- ...



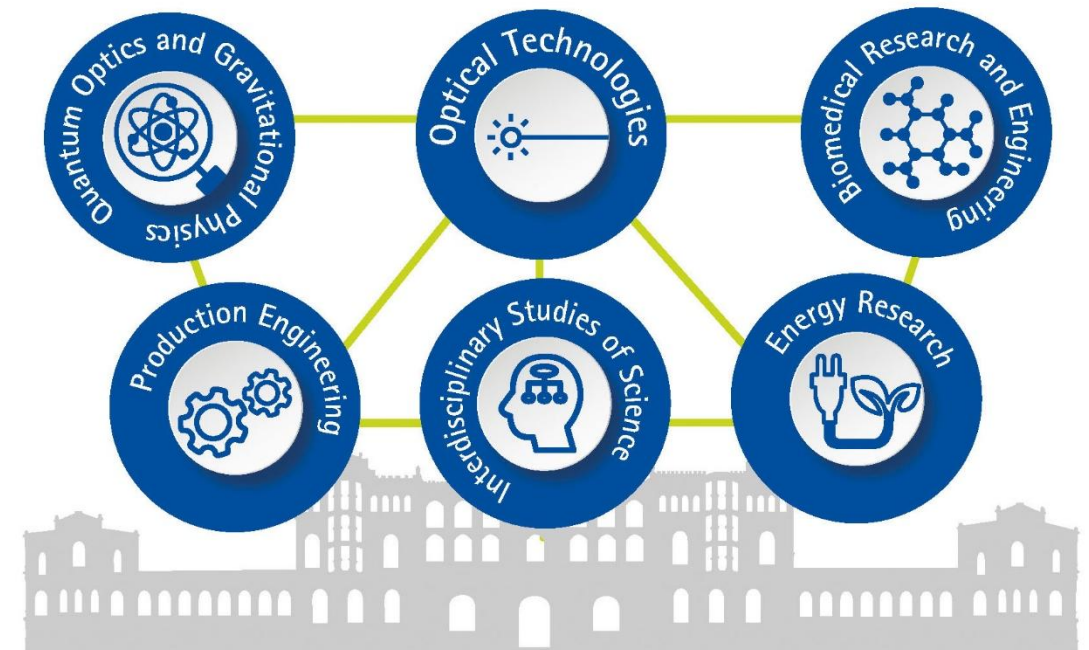


Overview of cooperation with Ukraine

# Cooperation with Ukraine at LUH

- Innovative and intensive research partnerships in
  - Biomedical Engineering
  - Cryobiology
  - Laser ablation
  - Nanomaterials
  - Radioecology
  - Digital Education
  - Metallurgy

## 6 Key Research Areas at LUH





# Overview of Academic Exchange Programmes with Ukraine

## Eastern Partnerships

Since 2011:

- Kharkiv National University of Radio Electronics (NURE) +

Since 2022:

- Taras Shevchenko National University of Kyiv (TSNU)
- National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" (KPI)
- National Technical University "Kharkiv Polytechnic Institute" (KhPI)
- Ivan Franko National University of Lviv (LNU)

## Erasmus+ KA 107 and 171

Since 2015:

- Kharkiv National University of Radio Electronics (NURE) +

Since 2022:

- Taras Shevchenko National University of Kyiv (TSNU)
- National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" (KPI)
- National Technical University "Kharkiv Polytechnic Institute" (KhPI)
- Lviv Polytechnic National University (LPNU)

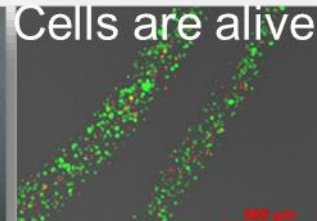
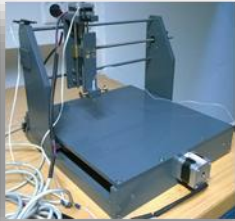
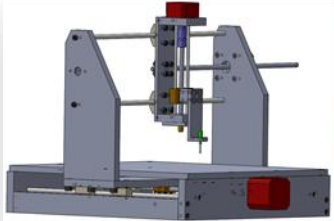




## Erasmus+ Key Action 107 and 171

- Credit Mobility and joint supervision of thesis

Printing of stem cells in hydrogel using the designed "AlgiPrint" device



German student presenting the project at the conference in Kharkiv, 2016



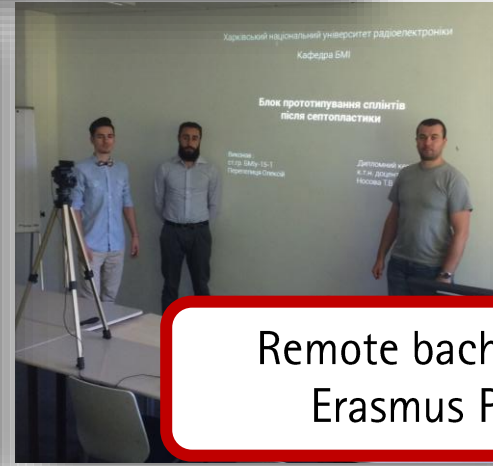
Incoming



2016



2017



Remote bachelor thesis presentations during Erasmus Plus visit in Hannover in 2018





Overview of cooperation with Ukraine

# Opportunities for Ukrainian (PhD) students and researchers

- Gain an insight into the structures of a German university, experience international environment
- Participate in most relevant, up-to-date research in biology, materials science and biomedical engineering
- Foreign language practice
- Develop network of contacts for future cooperation with German partners



Photo: fauxels / pexels.com

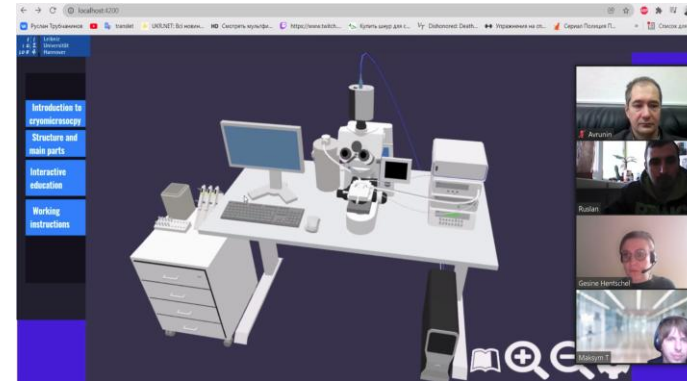




Cooperation in academic research

# at the Institute of Multiphase Processes, LUH

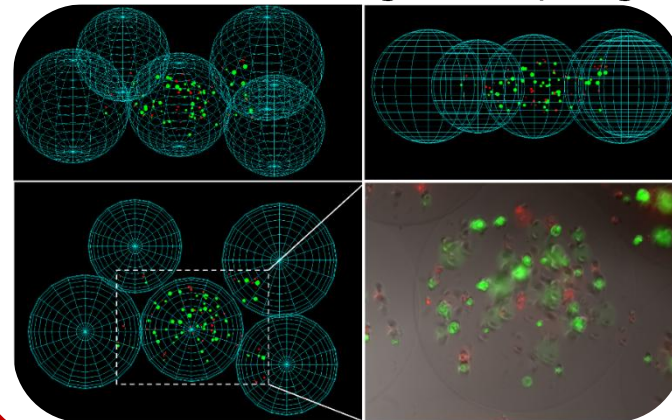
- Joint research projects in biomedical engineering, image processing and 3D reconstruction, deep learning, etc.
- Joint supervision of students' qualification thesis + Virtual Laboratory project
- Joint publications and participation at the conferences: RGC in 2013, 2015, 2018, ESAO 2019
- Successful grant applications (BMBF WTZ 2020-2022)



... and social activities



Smart 3D image reconstruction of stem cells inside alginate hydrogel



ESAO conference in Hannover 2019





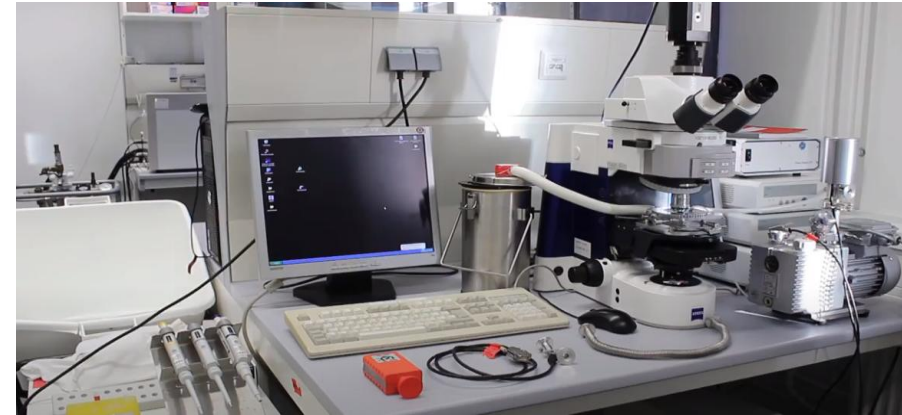


Cooperation in academic research

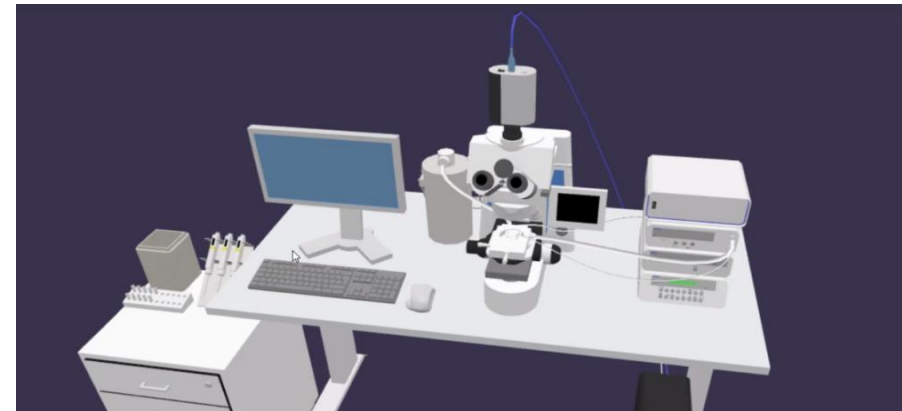
# at the Institute of Multiphase Processes, LUH

## Virtual Cryo Laboratory

- Working environment for teaching students with cryo-equipment: theoretical skills, safety training, practical apprentices
- Improving learning with limited opportunities (pandemics, war, etc.)
- Reduction of costs for equipment
- Can be used from any computer and any place



Real Cryo-laboratory (IMP)



Virtual Cryo-laboratory



# Ukraine Digital: OER with Ukraine

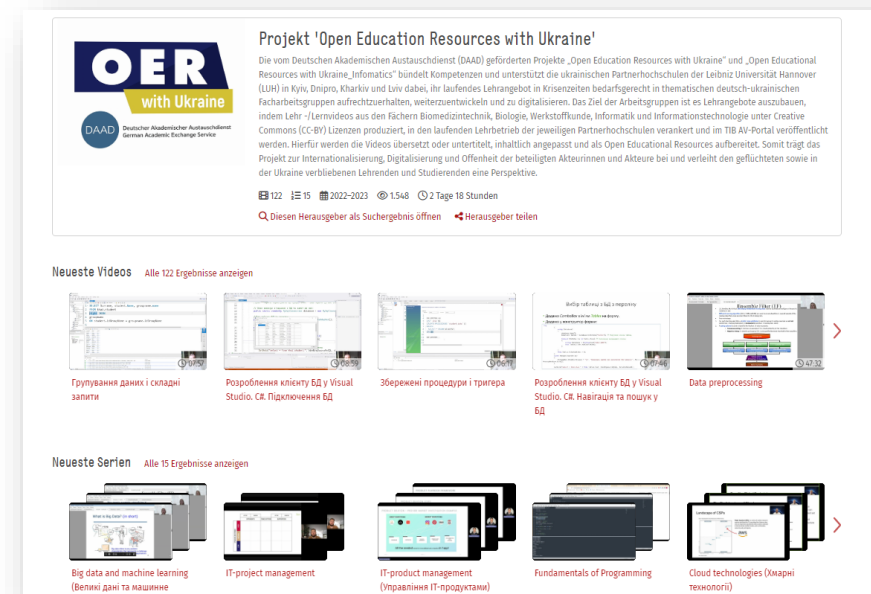
## Project Overview:

- Production of video lectures under [Creative Commons \(CC-BY\)](#) license in fields of Artificial Intelligence, Visual Analytics, Knowledge Engineering and Semantic Web, Natural Language Processing, Neural Networks, Molecular Biology, Biomedical Engineering, Image Analysis, Material Testing, and others
- The videos are subtitled and translated and integrated into [TIB AV portal](#), where they are accessible and are stored permanently
- [https://av.tib.eu/publisher/Projekt\\_Open\\_Education\\_Resources\\_with\\_Ukraine](https://av.tib.eu/publisher/Projekt_Open_Education_Resources_with_Ukraine)

## Project Participants



- Leibniz University Hannover, represented by
  - Leibniz Joint Lab Data Science and Open Knowledge
  - L3S Research Center
  - Institute of Photogrammetry and [Geoinformation](#)
  - International Office
- TIB – Leibniz Informational Center for Science and Technology, University Library
- [Taras Shevchenko National University of Kyiv \(TSNU\)](#)
- [Ukrainian State University of Science and Technology, Dnipro \(USUST\)](#)
- [Kharkiv National University of Radio Electronics \(KNURE\)](#)
- [Lviv Polytechnic National University \(LPNU\)](#)
- [National Aerospace University – "Kharkiv Aviation Institute" \(KhAI\)](#)



# Ukraine Digital: OER with Ukraine

- 486 video lectures already published
- 63 courses were produced in 2022 – 2025
- Opportunity for researchers to publicize their work and produce as well as reuse materials to support Ukrainian HEI
- [https://www.l3s.de/research-at-l3s/all-projects/oer-with-ukraine\\_informatics/](https://www.l3s.de/research-at-l3s/all-projects/oer-with-ukraine_informatics/)
- <https://av.tib.eu/publisher/Projekt+%27Open+Education+Resources+with+Ukraine%27>

## Plant Taxonomy

Taras Shevchenko National University of Kyiv

Projekt 'Open Education Resources with Ukraine'

2
2023
242
2 Stunden 16 Minuten

Dieser Serie als Suchergebnis öffnen
Serie teilen
Serie zitieren
In Meinen Medien speichern

2 Ergebnisse

## Cryotechnology

Leibniz Universität Hannover (LUH), Institut für Mehrphasenprozesse (IMP)

Projekt 'Open Education Resources with Ukraine'

9
2022-2023
214
1 Stunde 59 Minuten

Dieser Serie als Suchergebnis öffnen
Serie teilen
Serie zitieren
In Meinen Medien speichern

9 Ergebnisse

### Scanning electron cryomicroscopy (CryoSEM)

25:58
10
Rittinghaus, Tim

2022 Leibniz Universität Hannover (LUH), Institut für Mehrphasenprozesse (IMP) et al.

### Liquid Nitrogen

08:21
8
Rittinghaus, Tim

2022 Leibniz Universität Hannover (LUH), Institut für Mehrphasenprozesse (IMP) et al.





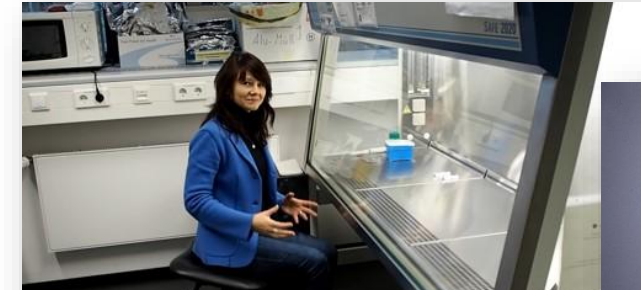
Cooperation in academic research



Leibniz  
Universität  
Hannover

# Cooperation in Biology at the Institute of Botany, LUH and Taras Shevchenko National University of Kyiv since 2022

- **OER with Ukraine:** Creation of a teaching unit consisting of a lecture, practical recommendations and a final quiz
- **DAAD Eastern Partnership:** research stays at LUH
- **Joint proposal submitted for HORIZON-CL6-2025-01-ZEROPOLLUTION-03 – RESTORE:** Revitalizing Challenged Ecosystems: Bio-Based and Nature-Based Strategies for Remediation and Restoration of Contaminated, Saline, and Drought-Affected Environments to Increase Climate Resilience
- **Erasmus+ KA171** – Bachelor and Master exchange



Visit of Dr. Vasheka in the Institute of Botany



Student visits funded by the DAAD "Eastern Partnerships"



Conference during the project in Hannover



- Be in touch with your partners on a regular basis and get to know their:
  - structures and responsibilities
  - strategies and focus topics
  - offers for exchange in English
  - deadlines and procedures (nominations, applications, etc)
- Be in touch with your university scientific staff and lecturers
  - know their main partners and topics for cooperation, they are your key and bridge
  - listen to the ideas and explain the current possibilities, unite efforts
- Be in touch with your students/staff before, during and after the exchange:
  - organise seminars to prepare before the exchange and also debrief after, match cohorts
  - Consider orientation days, study buddy programmes, recognition procedures



Thank you for your attention!