

TECHNICAL UNIVERSITY OF LIBEREC

FACULTY OF HEALTH STUDIES

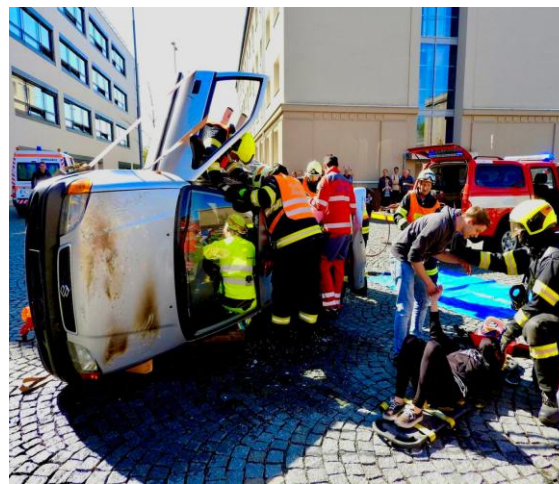


## About Us

- Study programmes for health care professionals attended by more than 400 students
- Cooperation with world-class hospitals and healthcare facilities in teaching and research
- Internships and training with professionals in all fields of study
- Excellently equipped laboratories for teaching and training
- Research in biomedicine, nanoapplications, and infection prevention

# Study Programmes

|      |                         |
|------|-------------------------|
| BSc. | General Nursing         |
|      | Paramedic               |
|      | Radiological Assistance |
|      | Biomedical Technology   |
| MSc. | Biomedical Engineering  |



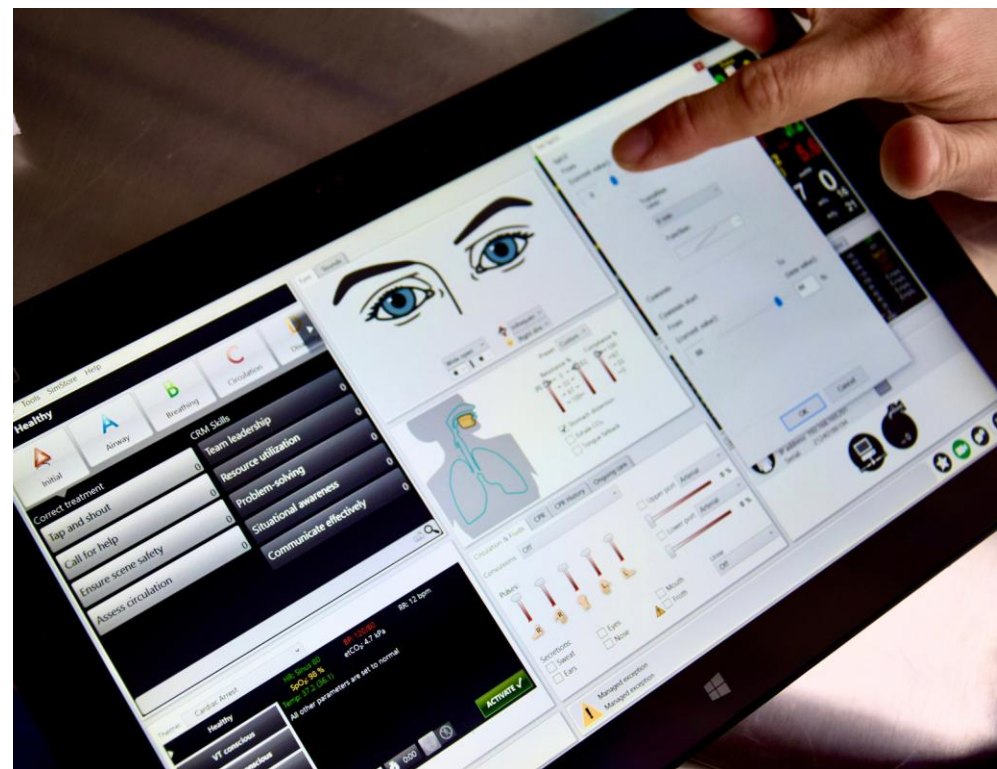


# Ambulance For Training



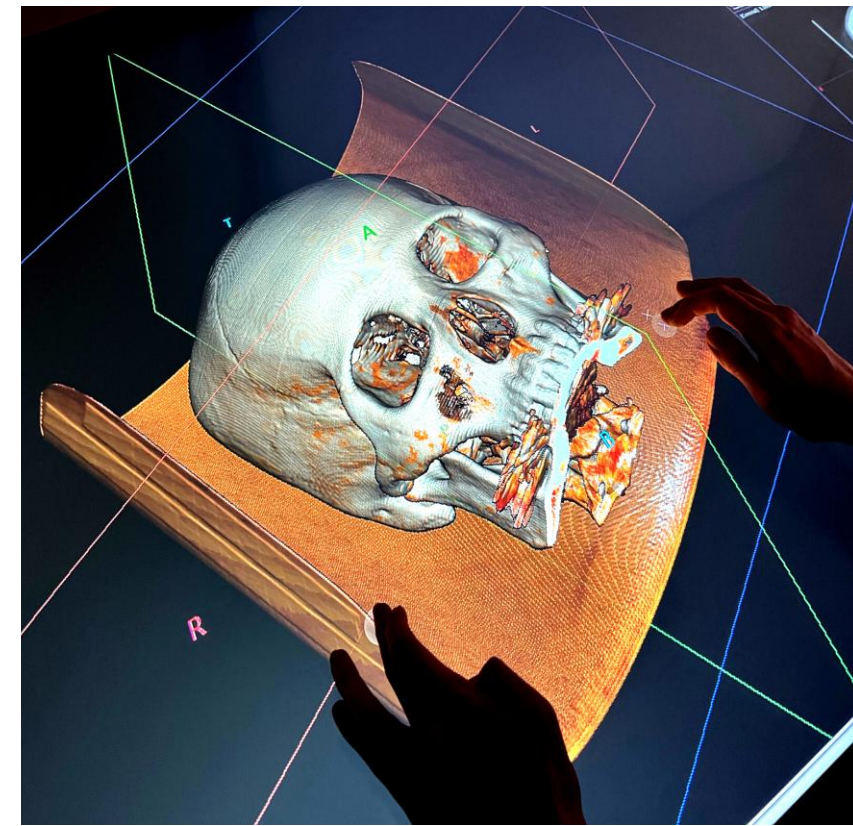
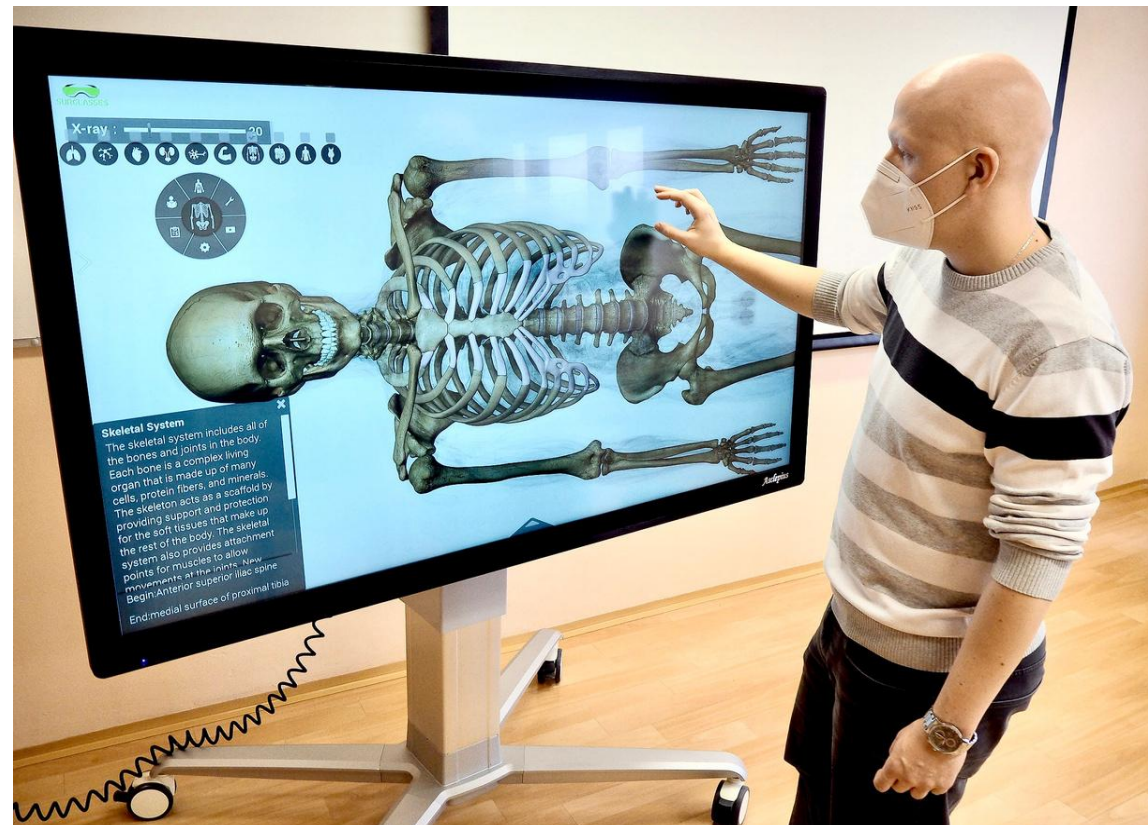


# SimMan: Manikin For Real-Time Simulation



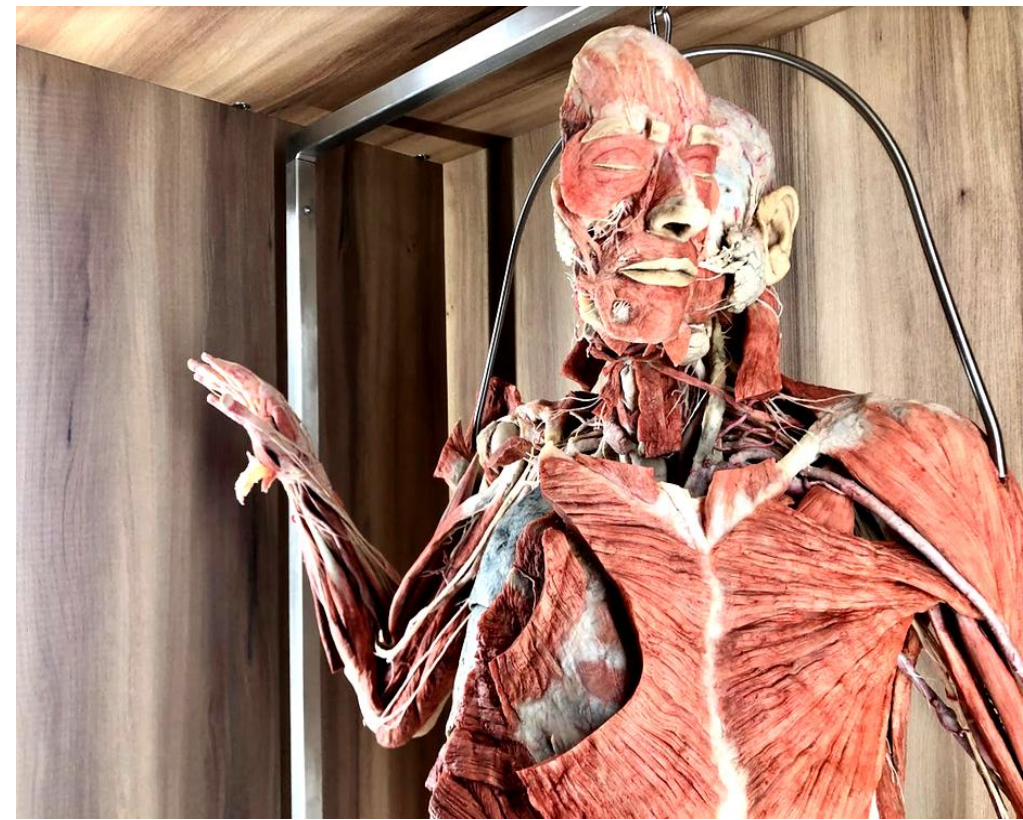
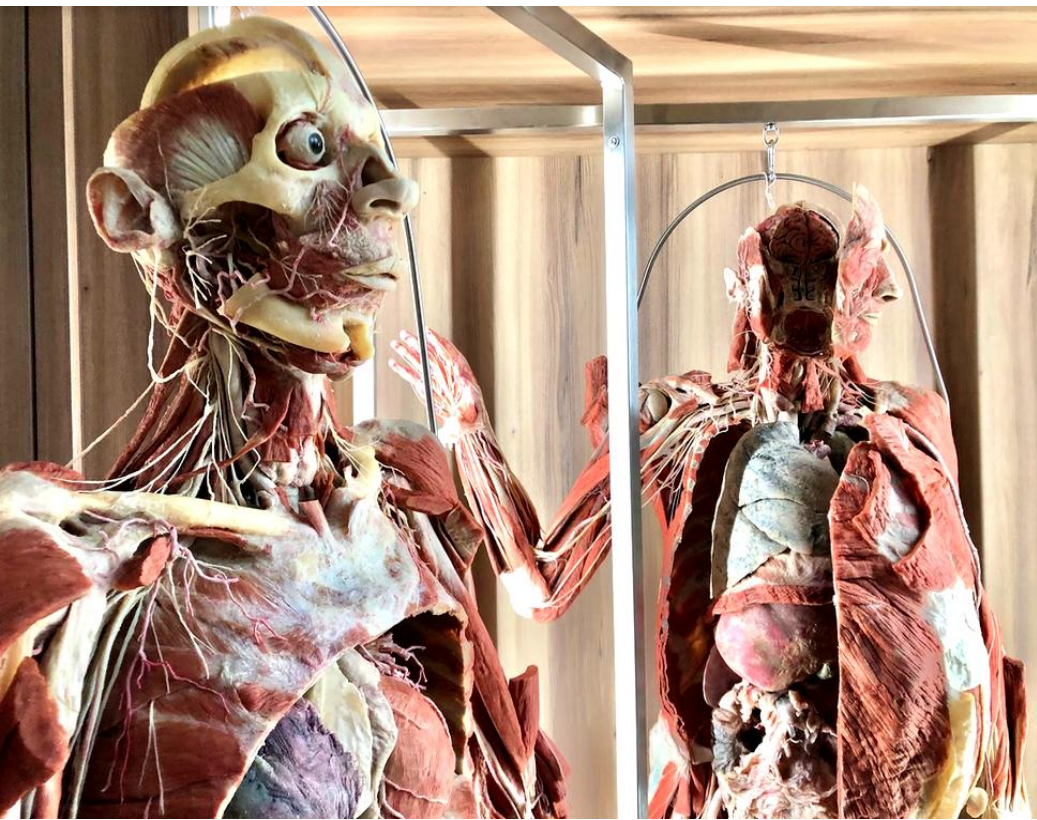


# Virtual Anatomy Table



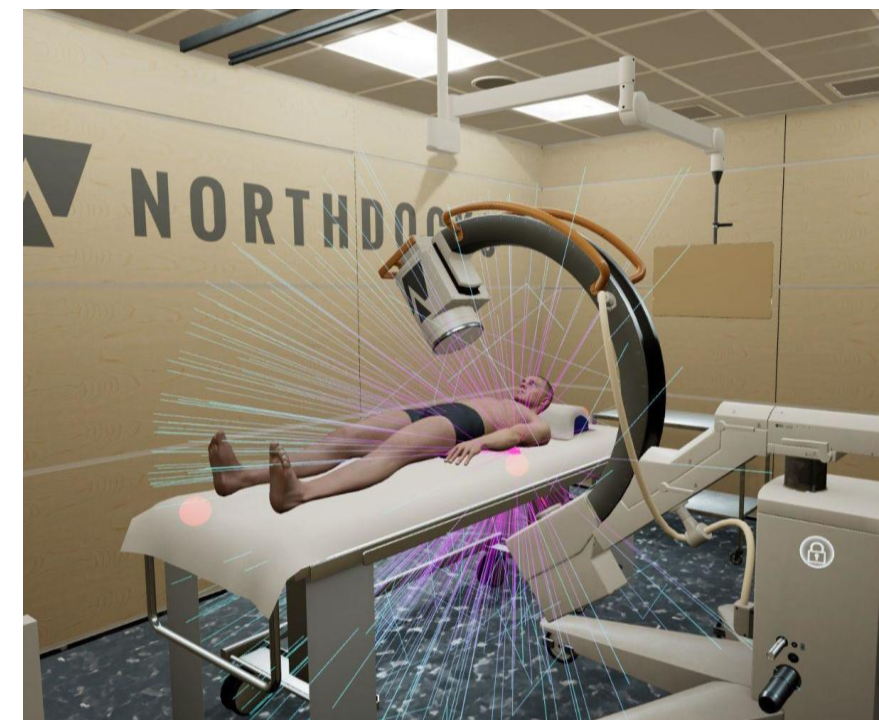


# Plastinated Human Bodies





# VR For Training





# Simulation Centre

## Memorandum of Cooperation (2024) signed by

**Faculty of Health Studies of the Technical University of Liberec (FHS TUL),  
Regional Hospital Liberec (KNL, a.s.),  
Emergency Medical Services of the Liberec Region (ZZSLK, p.o.).**

- ▶ Mutual collaboration in the field of simulation-based education and training of healthcare.
- ▶ Education of FHS TUL students and the professional development of KNL and ZZSLK staff.

|                    |  |
|--------------------|--|
| <b>Funding:</b>    | Shared funding of construction and equipment |
| <b>Location:</b>   | Renovated E2 building                        |
| <b>Completion:</b> | 2028/29                                      |

# Specialized Courses

- Week of Health and Social Care
- Violence Prevention and Self-Defense Course
- Communication of First Responders during Urgent Situations
- Training in Rescue Operations on Frozen Water Surfaces
- Basics of Ski Mountaineering and Avalanche Rescue
- Advanced Driver Skills Course
- Climbing Techniques Course
- Water Rescue Service Training

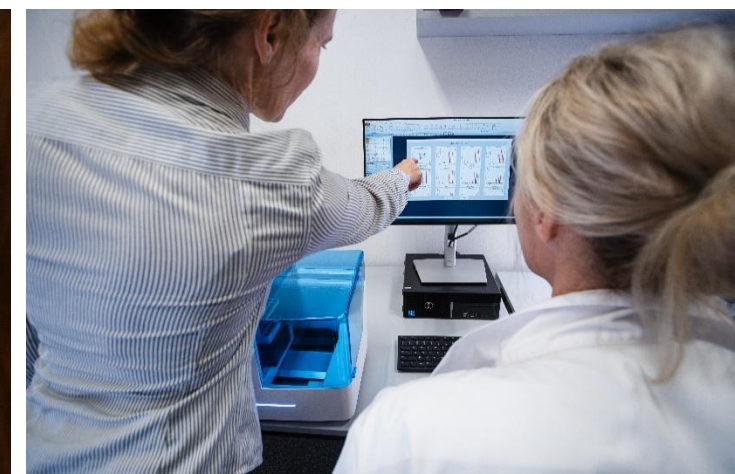
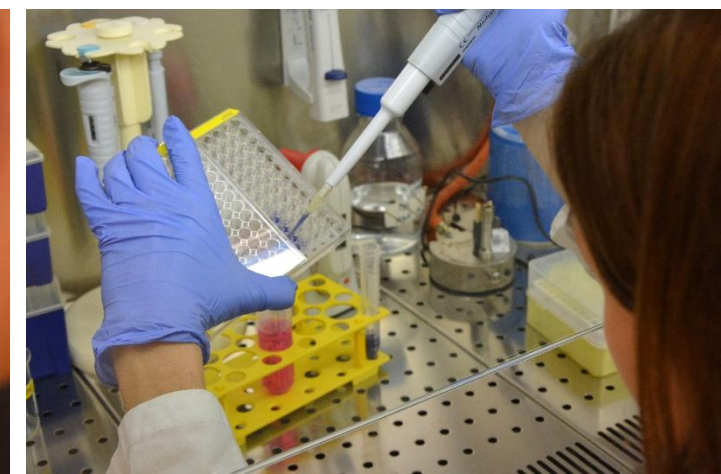
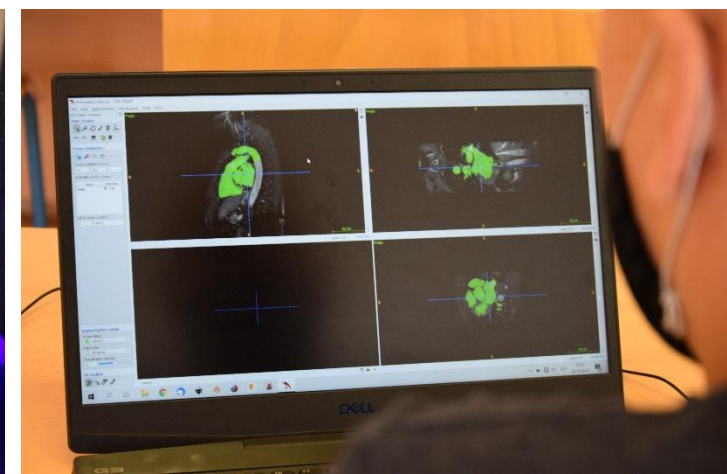
*and others.*





# Research & Development Fields

- Smart assistive systems for healthcare and physiotherapy
- Advanced functional ferroelectric materials
- Electromagnetic compatibility of cardiac implantable electronic devices
- High surface area aerogels from synthetic and natural polymer
- Nanofibrous mats for adsorption and sensing of per- and polyfluoroalkyl substances
- Biological testing of materials for biomedical applications
- Healthcare associated infections
- Innovation in healthcare, emergency medicine and public health



# Exchange Students

- Individual study plans
- Excursions in various hospital departments
- Training and intership:

**Liberec Regional Hospital** (general wards, ICU's),

**Emergency Medical Services** (ambulance and dispatch centre)



# Liberec

- Safe and modern city surrounded by mountains and forests
- Outstanding sports opportunities (hiking, cycling, skiing, climbing)
- Culture & entertainment



# FACULTY OF HEALTH STUDIES TUL

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