

**OST**

Ostschweizer  
Fachhochschule

# Welcome @ OST – Campus Buchs

**OCLA – Symposium 2021**

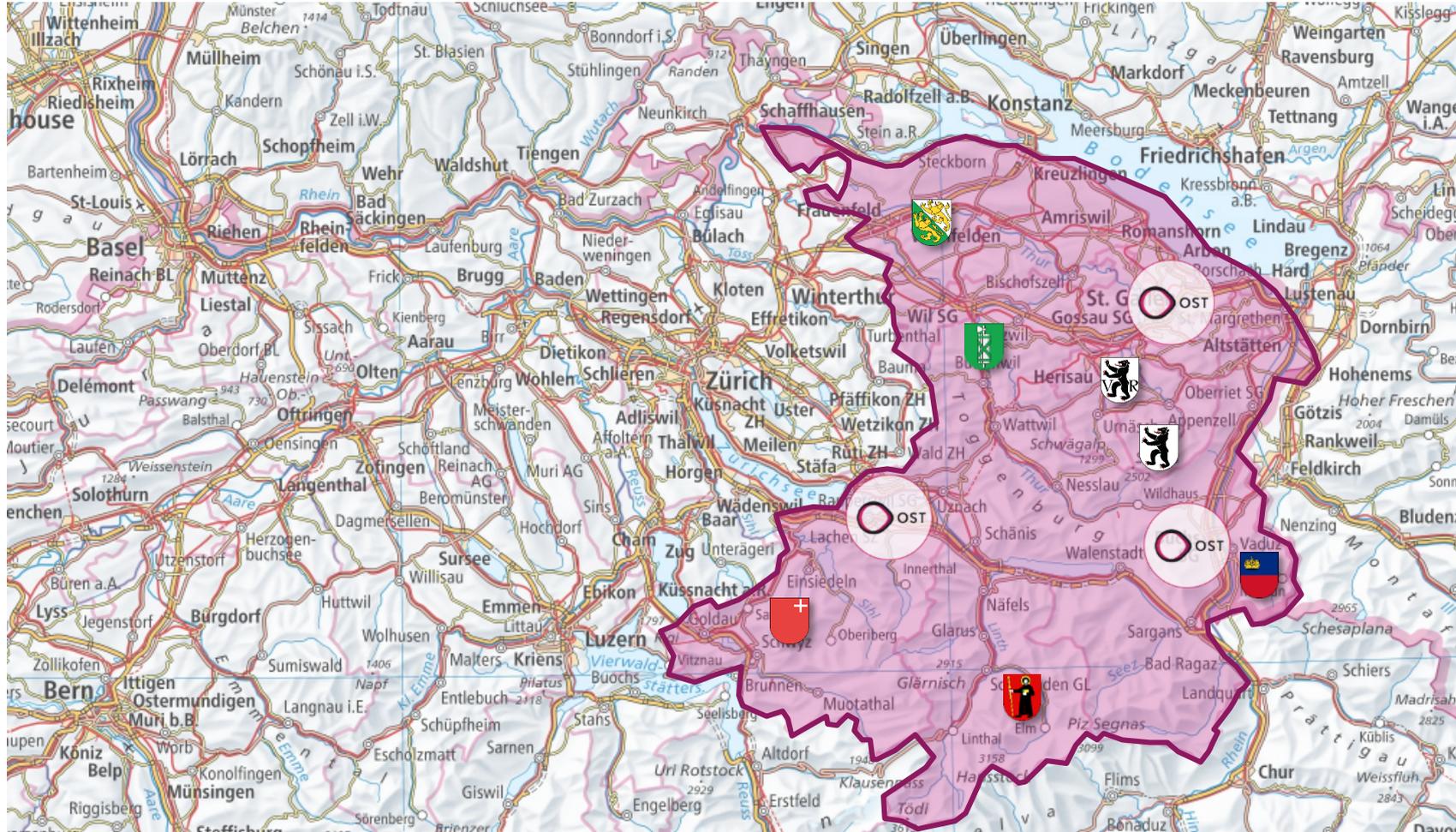
March 30, 2021

**Prof. Dr. Carsten Ziolek**

Head, Department of Systems Engineering – School of Technology

**OST – Eastern Switzerland University of Applied Sciences**

## Area of the OST



- **Operational start on 01/09/2020**
- **3 Locations**
- **Emerged from three established universities of applied sciences**
  - FHS St.Gallen
  - HSR Rapperswil
  - NTB Buchs

- **Inter-cantonal and inter-state**
- **7 Supporters:**
  - Canton St. Gallen
  - Canton Thurgau
  - Canton Appenzell Ausserrhoden
  - Canton Appenzell Innerrhoden
  - Canton Glarus
  - Canton Schwyz
  - Principality of Lichtenstein

## The OST in Numbers



**3**  
Campus:  
Buchs, Rapperswil-Jona, St.Gallen



**6**  
Schools



**21**  
Study programs  
(Bachelor and Master)



**34**  
Research institutes  
and centers



**1000+**  
Research projects with  
practice partners

**190 Mio.**  
Revenue total

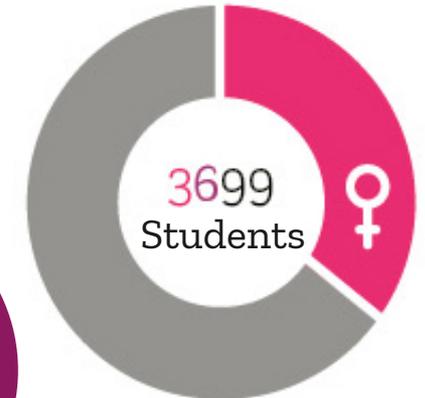
**73 Mio.**  
Research



**180+**  
Cooperations in 52 countries



**1'800**  
Employees



**3699**  
Students

**36 %**  
Women

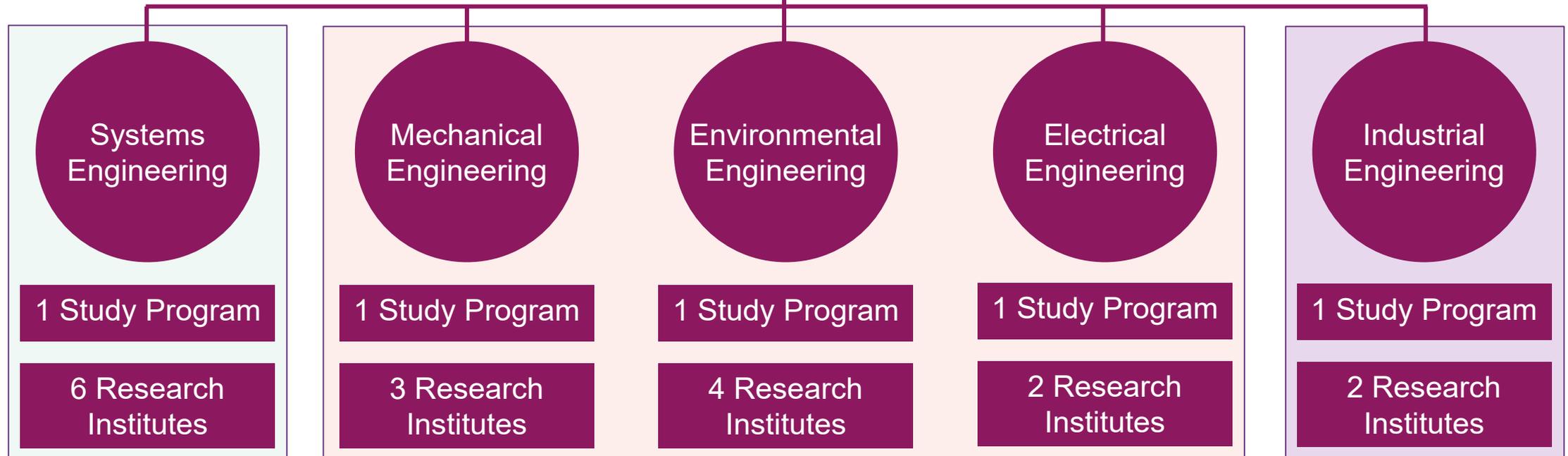
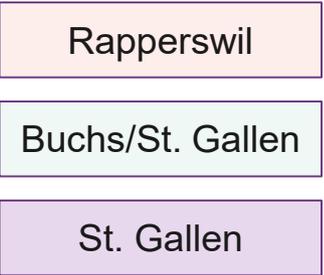
# School of Technology

- **1200 students**
- **520 employees**
  - 85 professors, 65 lecturers
  - 300 scientific employees
  - 70 administrative staff

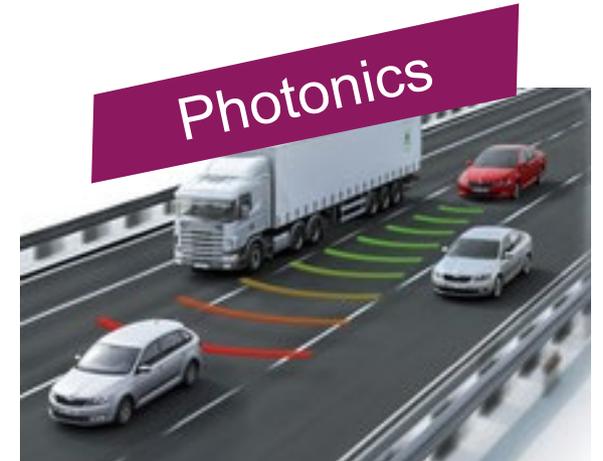
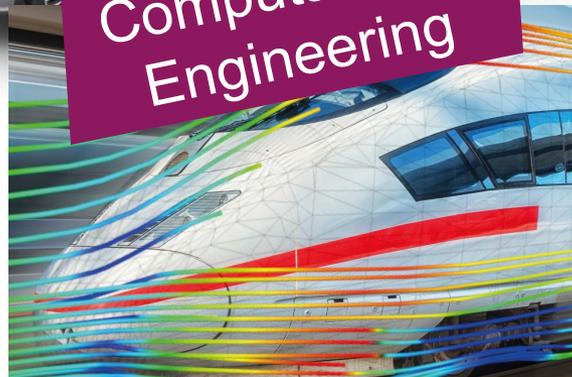
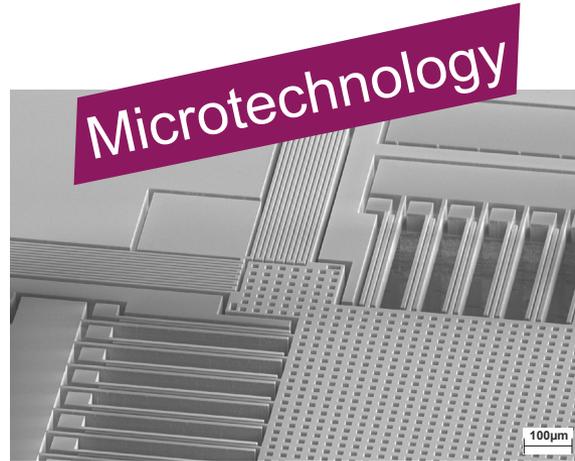
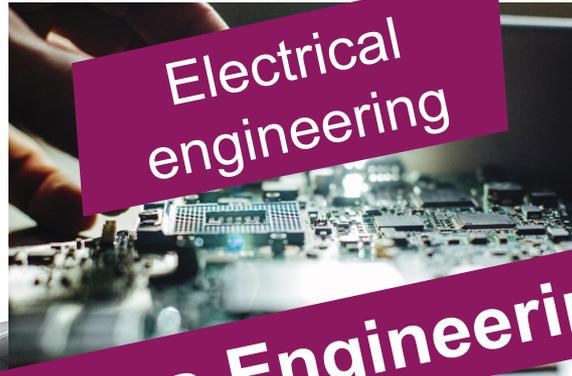
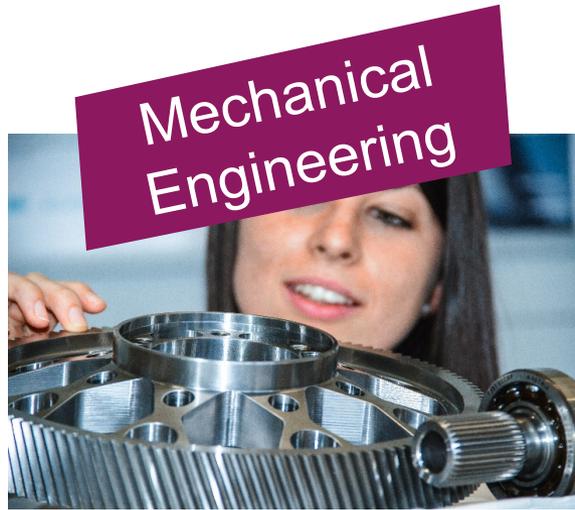


**Revenue in appl. R&D**  
**53 Mio. CHF**

- 32 Mio. CHF Rapperswil
- 18 Mio. CHF Buchs
- 3 Mio. CHF St. Gallen



# What do we teach? - Systems Engineering!

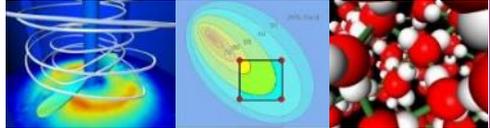
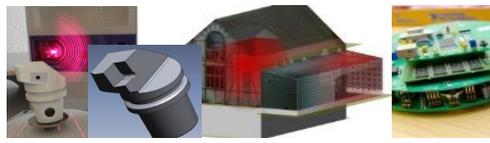
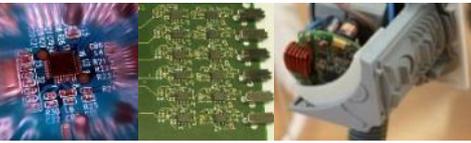


Department of Systems Engineering – Unique infrastructure

## Hybrid Learning Factory – real simulator in studies



# Where do we research? - The Institutes

	<b>Development of Mechatronic Systems</b>	<b>EMS</b>
<b>IMP</b>	<b>Microtechnique and Photonics</b>	
	<b>Computational Engineering</b>	<b>ICE</b>
<b>IES</b>	<b>Energy Systems</b>	
	<b>Engineering Informatics</b>	<b>INF</b>
<b>ESA</b>	<b>Electronics, Sensorics and Actorics</b>	

# Competence Center for Production Metrology

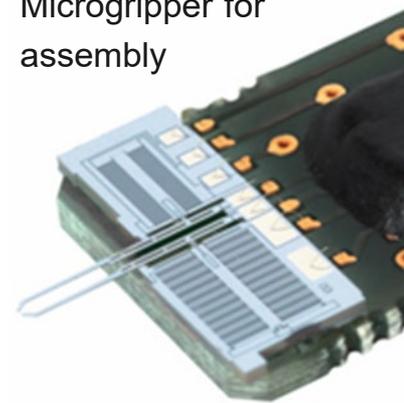
- **Accredited test laboratory** for
  - Coordinate metrology
  - Roughness metrology
- **International training program** for industrial customers
  - Coordinate Metrology (CM)
  - CM-Train
  - Geometric product specification and verification
  - Blended Learning, Digital Learning offers (development within EUREKA, IBH projects)
- Cooperation with  **RhySearch**  
Das Forschungs- und Innovationszentrum Rheintal
- **NEW:** Expansion to **Nano Coordinate Metrology** in close cooperation with RhySearch



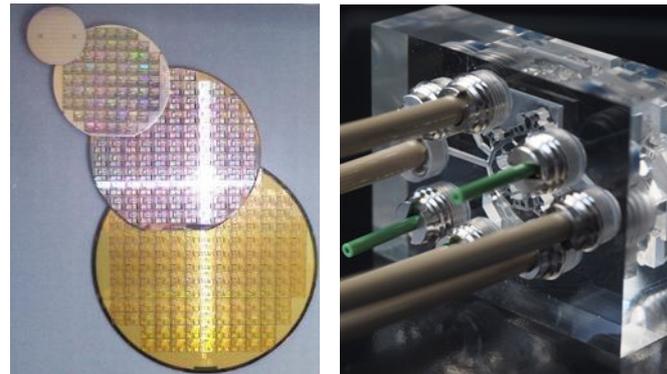
# Industry Standard Clean Room

- **620 m<sup>2</sup>** clean room area
- **Development and production of micro-technical systems** in **wafer technology** according to **industry standards** (8 inch)
- **Packaging and integration** from **chip level** to **complete systems**
- **Available also for external customers**
- Cooperation with  **RhySearch**  
Das Forschungs- und Innovationszentrum Rheintal
- **Use for**
  - Research Projects
  - Small series production
  - Teaching and Training

Microgripper for assembly



Coronary Vessel simulator for the optimization of surgical interventions



Quelle: wikimedia





# Symposium on *Optical Coatings for Laser Applications*

6<sup>th</sup> Symposium  
**OCLA 2021**

30 and 31 March 2021. Online. Save the date.