

# Doctoral School for Engineering

## **CONTACT:**

Babeş-Bolyai University, Doctoral School of Engineering,  
Traian Vuia Street 1-4, 320085, Reşiţa, Caraş-Severin  
Tel. +40 730 583 011, +40 374 810799

**Web:** [https://eng.ubbcluj.ro/?page\\_id=405#tab-id-10](https://eng.ubbcluj.ro/?page_id=405#tab-id-10)

**Doctoral school director:** *Assoc. Prof. dr. eng. habil. Zoltan-Iosif KORKA*

**E-mail:** [zoltan.korka@ubbcluj.ro](mailto:zoltan.korka@ubbcluj.ro)

The Doctoral School for Engineering was established in 2007. Its activity is running according to the Romanian legislation in force and its own regulations. The normal duration of doctoral studies is 3 years, with the possibility of interruption or extension (maximum 2 years for each case).

Currently, the doctoral school organizes studies in the field of **Mechanical Engineering**, having co-opted 8 doctoral supervisors.

Our PhD supervisors have competencies in the following scientific fields:

- damage detection;
- structural health monitoring;
- vibration base isolation;
- signal processing;
- reverse engineering;
- additive manufacturing;
- hydraulic machines;
- optimization of gear systems.

## **Supervisors:**

1. Prof. dr. eng. **Gilbert-Rainer GILLICH**

### **Research topics:**

- Development of non-destructive testing techniques based on vibration signal analysis;
- monitoring of engineering structures for early detection of defects and prediction of service life;
- isolation of noise and vibration, including from seismic action;
- advanced signal processing;
- development of autonomous non-destructive testing systems

**E-mail:** [gilbert.gillich@ubbcluj.ro](mailto:gilbert.gillich@ubbcluj.ro)

**Personal page:** [https://eng.ubbcluj.ro/?page\\_id=167#toggle-id-2](https://eng.ubbcluj.ro/?page_id=167#toggle-id-2)



2. Assoc. Prof. dr. eng. habil. **Zoltan-Iosif KORKA**

**Research topics:**

- Vibro-acoustic diagnosis of mechanical transmissions;
- reliability of mechanical transmissions;
- computer-aided design of mechanical systems;
- programming of numerically controlled equipment.

**E-mail:** [zoltan.korka@ubbcluj.ro](mailto:zoltan.korka@ubbcluj.ro)

**Personal page:** [https://eng.ubbcluj.ro/?page\\_id=167#toggle-id-8](https://eng.ubbcluj.ro/?page_id=167#toggle-id-8)



3. Lecturer dr. eng. habil. **Zeno-Iosif PRAISACH**

**Research topics:**

- Development of non-destructive testing techniques based on vibration signal analysis;
- monitoring of engineering structures for early detection of defects and prediction of service life;
- advanced signal processing;
- development of autonomous non-destructive testing systems.

**E-mail:** [zeno.praisach@ubbcluj.ro](mailto:zeno.praisach@ubbcluj.ro)



**Associated Ph. D. Coordinators**

1. Assoc. Prof. dr. eng. habil. **Tiberiu MĂNESCU**

**Research topics:**

- strength of materials;
- kinematics and dynamics of bearings;
- numerical modelling and simulation;
- finite element method.

**E-mail:** [manescu.tiberiu@gmail.com](mailto:manescu.tiberiu@gmail.com)

