

Traineeship offer for international exchange student

Department of Environmental Protection Engineering

Faculty of Technology

Tomas Bata University in Zlín

The possible topics of work:

1. Stabilization/solidification of different hazardous waste

The student will prepare number of tested solids which will be made from water, different types of binder and selected hazardous waste. After some period (usually 3 days or 28 days) the samples will be leached in distilled water or acetic acid and the leachates will be analysed using AAS – atomic absorption spectrometry). The measured analytes are usually heavy metals.

Demands for the international student: be capable of working with advanced instrumental equipment (AAS, UV-VIS, etc., have a good knowledge of solid samples preparation of hazardous waste, be capable of analysing obtained data (knowledge of basic analytical methods, calibration curve, etc.)

2. Determination of heavy metals in different matrices

Determination of “heavy metals” in different matrices using atomic absorption spectrometry (contrAA 800) (examples of samples: sediments from the river Drevnice, soil samples etc..). Demands are same as listed before.

3. Determination of mercury in different matrices

Determination of mercury in different matrices using the instrument AMA 254 (samples could be: hair, potatoes, fishes..). Demands are same as listed before.

We are looking for one, two or three students interested in this topic who want to enhance the experience in environmental protection engineering.

The placement is available from **January – June 2019**.

Each topic takes two-months time period, so we can accept either 3 students, each for two months (not together, but separately) or one student doing all three topics in all months offered.

The traineeship is aimed for students of Bachelor or Master degree in related study field. The work difficulty can be adapted to the student’s expertise and skills.

We do not offer any payment. The students are expected to apply via Erasmus+ or other mobility programme at their home university.

Interested students should send **CV, Transcript of Records and Cover letter to international@ft.utb.cz**. Based on that, the supervisor will decide about acceptance of the applicant for the traineeship. On the same email, we can answer all your questions regarding this offer.

The topics are available until the capacity of chosen trainees is fulfilled!