

Dear Sir, dear Madam,

S.V. Paradoxs, the student association for Biomedical Engineering (BME) and Technical Medicine (TM) of the University of Twente, organizes a study tour in September 2022 with Canada and the United States as destinations. During this travel thirty BME and TM students (accompanied by academics) visit biomedical companies, universities and institutes to conduct research revolving around the theme “Wahweenga”. This means “Perfection” in the old, North-American native Ojibwe language.

To finance the study tour, we are looking for companies and institutes which would like to participate in a collaboration with us. This is called a case study and consists of an assignment of 120 hours at your company or institute. This assignment will be completed by one of our students, for which we ask a compensation of 3000 euros. A larger or smaller assignment is also negotiable. The case study could be a literature study, a small scientific research, a practical research or a market research. A link between the case study and theme or destination of our study tour is not required.

In this table one can find examples of executed case studies for previous study tours.

Description	Company or institute
Expansion of a dataset focused on cardiac arrest patients and delirium.	Clinical Neurophysiology research group of the University of Twente
Designing and creating a realistic phantom of the peripheral vascular anatomy for MRI-scanner usage.	Magnetic Detection and Imaging research group of the University of Twente
Literature study for assembling a new Dutch guideline for a central sterilization department	TNO (VCCN)
Obtaining insight in the clinical and technical feasibility to judge the positioning of feeding catheter	Pontes Medical @ UMC Utrecht
Risk assessment and evaluation of radiation protection for employees	Radiotherapygroup
Use of “Telemedicine” for ambulatory revalidation	Roessingh research and Development
Overview of electrospinning techniques and electrospinning researches on the current market	Vivolta
Development of user manual, installation manual, service manual and start manual for the NeuroCenter® EEG	Clinical Science Systems

### **Profile of students**

The Biomedical Engineering student is an engineer capable of designing new technological methods, products and processes applicable in healthcare. The Technical Medicine student is able to design and develop new diagnostic and therapy methods using medical technology. Both students are academically educated and develop during their education a great ability of problem solving.

The BME and TM master students take specified education tracks, in which they focus on a certain medical and technical field:

- Medical Imaging & Intervention (TM)
- Medical Sensing & Stimulation (TM)
- Bioengineering technologies (BME)
- Imaging and in vitro diagnostics (BME)
- Physiological signals and systems (BME)
- Biorobotics (BME)
- Medical Device Design (BME)

### **Advantages**

Advantages for your company or institute are the connections of the student within the University of Twente. The student has access to academic resources (like the library of the university) and can bring new insights to existing problems. Additionally, the student has multiple academic skills and is able to cooperate with the medical, biomedical and technical fields. Another advantage of executing a case study is the experience of having expertise from Biomedical Engineering or Technical Medicine in your company. Lastly, your company gets more brand awareness in the University of Twente through the cooperation of via a case study.

We would like to hear from you so a possible cooperation could be discussed. Please contact us if any questions arise.

Yours faithfully,

Jesse van der Duin & Lars van Krimpen  
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