Interested in data analytics, pattern recognition and machine learning?

The Critical Alarms Lab is looking for a student who can strengthen our research by analysing continuously measured acoustic data (in dB) taken from the Intensive Care Unit (i.e. the patient room). This data is measured by ComfortZone-sensors, made by the American company Quietyme (see its portal in the image below). These sensors are simply put wall plugs which measure environmental factors like sound and light-intensity. In order to understand the noise profile of the ICU (see image below), we need to **categorise the measured sounds in the ICU** (i.e. alarms, talking, abrupt/incidental sounds and continuous sounds coming from the machinery). With this understanding we could improve, for example, the patient's circadian cycle (day-night sleep rhythm), leading to a recovery that is more effective and efficient.

Did we spark your interest?
Contact Elif Özcan - **E.Ozcan@tudelft.nl**
Director, Critical Alarms Lab

We can discuss together what kind of project this would be for you
(e.g. **graduation project, elective or an internship**).