



Master's thesis (30 ECTS)

MT_71

Working Title	Measure While Drilling (MWD) data utilization for ground prediction
Project objectives	The installation of boreholes is one of the main tasks of geotechnical engineering and the acquisition of data during the drilling process is commonly described as measure while drilling (MWD). Although storage of the drill data is standard in modern tunnelling, the use of this data is not self-evident. Therefore, this thesis focuses on the investigation of the possible utilization of MWD data. The thesis should include: a literature study regarding MWD and ground classification based on drill data, statistical correlation analyses of the measured parameter, examination of possibilities to include the evaluation of MWD data in daily tunnelling operations.
Student has enthusiasm for	Tunnelling, rock classification, drilling
Requirements on student	Attention to detail, engagement, good writing
Start (earliest / latest)	April 2021
Project term (min. / max.)	6 months full-time
Coop. with external institution	yes
Possibility of remuneration	no
Contact person	Stefan Stauder stauder@tugraz.at, +43 316 873 4229

PDF on
tunnel.tugraz.at:

