



Master project (5 ECTS)

MP_40

Working title	The utilization of the binder jetting technology in 3D-printing of artificial soft rock samples: How well can the material simulate the response of soft rock and is it possible to incorporate anisotropy?
Project objectives	Identification of current state of the art in 3D-printing of artificial rock samples. Evaluation of the influence of different printer settings and the selection of various printing materials (resins, sand type) on the mechanical properties. Assessing the limitations of the printing technology (accuracy, printing resolution etc.)
Student has enthusiasm for	3D-printing, laboratory testing
Requirements on student	attention to detail
Start (earliest / latest)	Immediately
Project term (min. / max.)	2 / 4 weeks full-time
Coop. with external institution	no
Possibility of remuneration	no
Contact person	Manuel Winkler (winkler@tugraz.at, +43 316 873 8118)

PDF on
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