



DSC

Drilling Simulator Celle

The overarching goal of the Drilling Simulator Celle at Clausthal University of Technology is to contribute to reducing costs and risks in geothermal and deep drilling projects. For this purpose, unique test facilities and simulation methods are available for research and service projects.

Our offering includes the development and testing of new drilling techniques, pump and flushing systems, process simulation and digitization of drilling and process technology, as well as education and training in the field of deep drilling technology.

FLVI – Flow Loop with Variable Inclination

Over 40% of non-productive time in drilling projects is caused by problems in the flushing process. Reduce technical and cost risks through targeted optimization of the drilling process and cuttings transport. Our modular facility integrates state-of-the-art high-resolution measurement technology,





TU Clausthal

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enabling quantitative analysis of multiphase flows under realistic drilling conditions. This individually adaptable facility sets new global standards in drilling technology research. The location of our facility in Celle offers not only the integration of our systems into existing hardware and software simulators but also excellent opportunities for cooperation with regional SMEs and industry partners.

Your Benefits

- **Optimized Drilling Process:** Through targeted investigations of hole cleaning and drill string rotation, we reduce non-productive times and increase the efficiency of your projects.
- **Analyses and Optimization:** Analysis of rheology and flow, investigation of optimal operating parameters, improvement of hole cleaning.
- **Expandable Research Platform:** The modular facility provides scope for future application-oriented studies and developments.

Contact

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Here you can find us

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