

## Dr. Laurent GERBAUD

Geosciences Research Center of Mines Paris-PSL



### Education

- PhD at Mines Paris-PSL in "Technique and Economics of underground mining". Thesis defended: "Optimization of the PDC-Roche interaction: Application to the bit design for small-diameter oil drilling"
- Engineer Centrale Nantes option Civil Engineer

### Details of the current professional position

- Head of the Engineering Geology and Geomechanics research team at the Geosciences Research Center of Mines Paris-PSL
- Head of the drilling tests laboratory of Mines ParisTech-PSL in Pau
- Researcher in the field of rock cutting and real time analysis of drilling data to detect drilling dysfunctions.
- Member of the board of directors of the competitiveness hub Avenia for the subsurface industries

### Details of current projects

- Scientific coordinator of the H2020 European project ORCHYD " Novel Drilling Technology Combining Hydro-jet and Percussion for ROP Improvement in Deep Geothermal Drilling "
- Scientific coordinator of industrial drilling research projects on drilling such as "Effect of shaped cutter on drilling performance", "Effect of rock temperature and mud cooling on drilling performance" or "Drilling dysfunction detections with Physic Informed Neural Network"