

# Investigation of polarization process of piezoceramics

## ✓ Bachelor- / Studien- / Masterarbeit

Piezoceramic materials must be activated (polarized) in high electric field after their manufacturing prior to their use in the industry. The exact process parameters, such as ramp speed, hold time, and others determine the final piezoceramic performance of the components.

### Tasks:

- Preparation of the specimens for experiments
- Determination of polarization parameters to be investigated
- Analysis of process parameters
- Measurement of piezoelectric properties

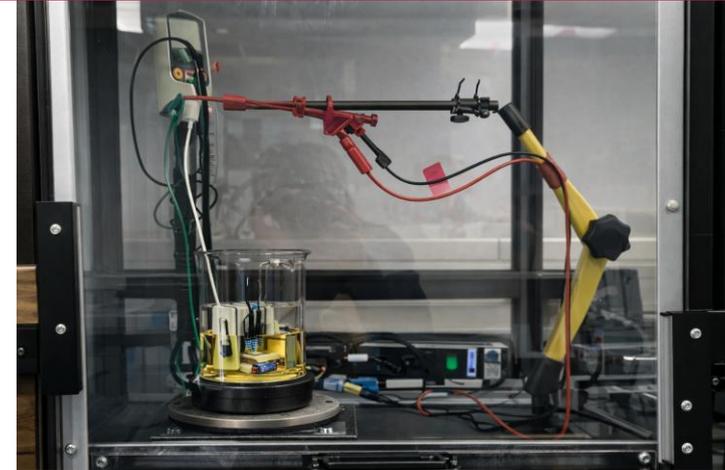
**Nature of the study:** Experimental work, high-voltage

**You will learn:** manufacturing of ceramics, sintering, safety while working with high voltage lines, piezoceramic polarization

**Optionally:** simulations + experimental work

### Additional information:

- You select language of the work, either German or English
- Multiple works on same topic possible (e.g. Studienarbeit + Masterarbeit)



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