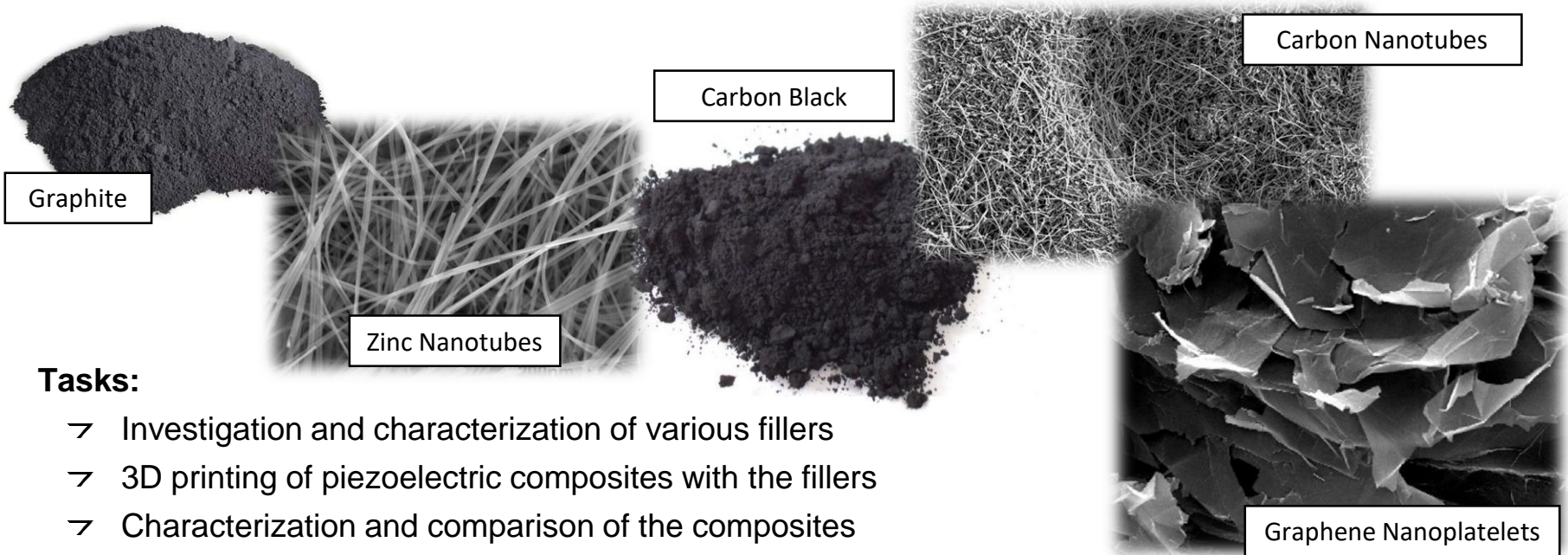


Investigation of Conductive Nano-fillers as a Third Phase for Piezoelectric Composites

✓ Bachelor- / Studien- / Masterarbeit

Piezoelectric composites have unique properties, but currently they suffer from low piezoelectric output and poor electromechanical performance. In order to increase their performance, highly conductive nano-fillers such as Carbon Nanotubes or Carbon Black were proposed by researchers. Their dispersion process and influence on the performance of the composites must be experimentally investigated.



Tasks:

- Investigation and characterization of various fillers
- 3D printing of piezoelectric composites with the fillers
- Characterization and comparison of the composites

Additional information:

- Part of experimental work will take place at DLR Braunschweig
- Multiple works on same topic possible (e.g. Studienarbeit + Masterarbeit)

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