





## RESEARCH & DEVELOPMENT

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Element has a long history of supporting research, development, and design stages of the product life-cycle with mechanical testing. Our digital engineering expertise can optimize the design, production, and through-life processes with:

- Computational Fluid Dynamics (CFD)
- Development of Digital Twins
- Discrete Element Modeling (DEM)
- Engineering Critical Assessment (ECA)
- Finite Element Analysis (FEA)
- Virtual prototyping
- Computed tomography
- Failure analysis

## POWDER QUALIFICATION

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Our European laboratories in Antwerp, Teesside, and Toulouse as well as locations in the US offer a range of powder qualification services. Element Antwerp in Belgium is accredited for full-scope powder characterization according to ISO 9001:2015. Computed tomography



