

## FEM & CFD

Finite Element Method (FEM) and Computational Fluid Dynamics (CFD) are examples of two large areas where AFRY has leading expertise and experience.

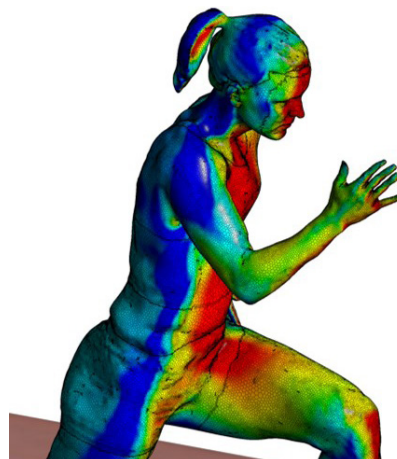
AFRY's Computer Aided Engineering unit works in several different market areas such as the automotive industry, process industry, food and Pharma, oil and gas, nuclear power, aviation and aerospace, forest industry and infrastructure.

### FEM - Finite Element Method

Within finite element analysis we simulate and analyze fatigue and fracture, impact, stress and strain, heat transfer, sound and vibration, electromagnetism.

### CFD -Computational Fluid Dynamics

The main types of phenomena we analyze with computational fluid dynamics are; flow patterns, chemical reactions, heat transfer, multi-phase flows, pressure drop, fluid structure interaction.



Together we can:

- reach a deeper knowledge about your product or system performance
- reduce project risks
- shorten lead times and
- achieve better performance for your product or application

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