



## Data Center - Capabilities Overview

### Contact

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## Engineering Services For Data Centers

Mechartés specializes in providing advanced engineering services for data centers using analysis tools like Computational Fluid Dynamics (CFD). By using Computational Fluid Dynamics (CFD), a three-dimensional model is created to study the heat transfer and air flow in data centers, which allows forecasting the air speed and temperature range under diverse conditions of operation and in-turn helps in energy saving.

## Applications

- Computer Room Air Conditioner (CRAC) failure analysis
- Testing different rack layouts and loads
- Optimize location of telecommunications pathways, air conditioning equipment, equipment enclosures, air return, air vents and ventilated tiles
- Chiller Yard/ Generator Yard Study
- Hot and Cold Aisle Arrangement
- TES and Buffer Tank Design
- Generator and DRUPS Rooms
- Piping Stress Analysis and Support Design
- Seismic Analysis

