

Engineering Services

- High-quality and value-added simulation.
- Multi-industry experience.
- Capable of handling complex engineering problems.



CHANNEL PARTNER



Since 1985

For whom

Are you facing any of these challenges?

- ▶ We want to make analysis work more efficient.
- ▶ Our team wants to improve their analysis skills.
- ▶ Lack of resources and time to carry out analysis work.
- ▶ We don't know how to start, our team doesn't have enough experience and know-how to perform complex analysis using simulation.



HQ in Tokyo, Japan



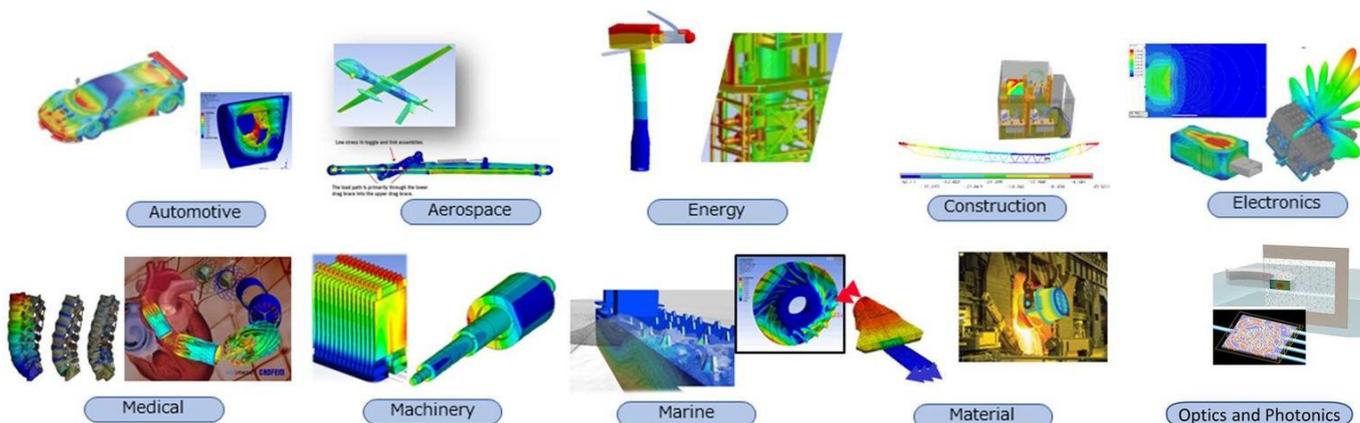
Industry Experts

Services we offer

Whether you are looking for a simple design, analysis or optimization task or a company-wide deployment of Computer-Aided Engineering (CAE), CYBERNET can provide the required guidance, consulting, training, and engineering services to surmount your engineering simulation challenges.

- ▶ Thermal-Fluid analysis (CFD)
- ▶ Mechanical analysis
- ▶ Optical Analysis
- ▶ Consultation
- ▶ Training & other services

Simulated with **Ansys**



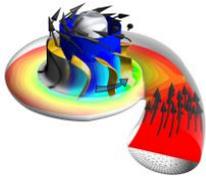
Service flow

- ▶ Consultation/Appointment
- ▶ Simulation Service
- ▶ Delivery of Report



Professional Services

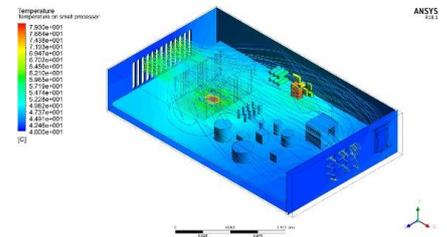
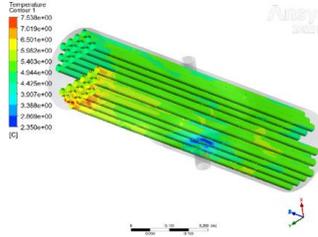
Fluid Analysis



- Steady/Transient flow
- Laminar/turbulence flow
- Compressible/Incompressible flows
- Chemical/combustion flow
- Multiphase flow
- Turbomachinery

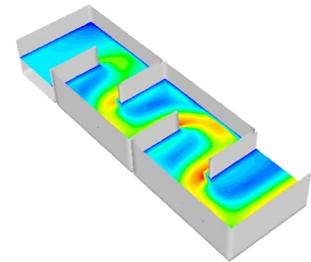
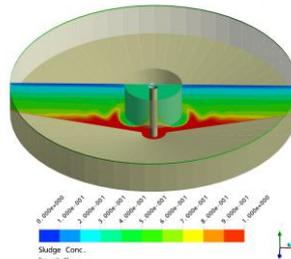
Air-conditioning System (HVAC)

- Indoor ventilation simulation
- Building (outdoor unit) heat discharge simulation
- Airflow performance simulation
- Heat exchanger simulation

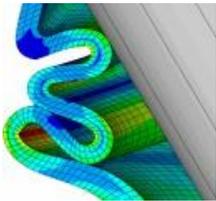


Waste Water Treatment Plant

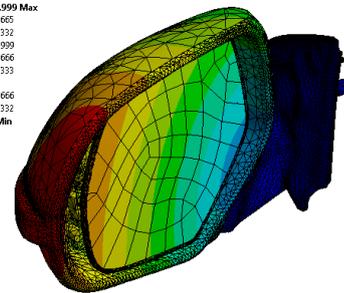
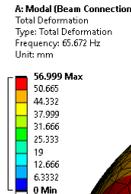
- Ozone Contact Tank
- Mixing Tank
- Flocculation/Clarifiers
- Sedimentation Tank
- UV Water Disinfection



Mechanical Analysis

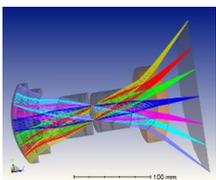


- Structural Integrity (displacement/ stress/strain)
- Vibration characteristics (resonant frequency)
- Vibration response to seismic events
- Drop/Collision test
- Fatigue/Fracture/Buckling load
- Non-linear Material (Plastic/Hyperelastic/Viscoelastic)

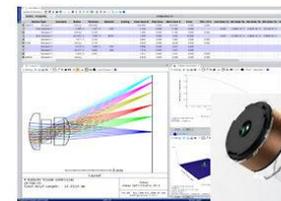


Tabular Data	
Mode	Frequency [Hz]
1	65.672
2	85.332
3	104.39
4	125.14
5	129.57
6	173.37

Optical Analysis



- Lens Design
- Optimize and Tolerance for manufacturability



Other Services



- CAD creation
- CAE environment construction
- Sample model creation
- Customization training
- CAE launch support
- Consulting

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