



CAE SoftSys

Capability Statement for Life Sciences & Medical Devices

Founded in 2015, CAE SoftSys, is a global provider of elite Eng. Design & Analysis resources, processes & technology solutions. Through strategic client partnerships we provide 24/7 on-demand availability, with real-world industry expertise, at domestic & global rates. Our Sr. Program Mgmt. teams & Subject Matter Experts are keys to our on-time delivery & exceeding our clients' expectations.

Core Competencies



Areas of Expertise:

- ▶ Domestic & Global 24/7 Program Management
- ▶ Advanced Stress, Thermal, Load, Transient Analysis
- ▶ Classical Method Analysis (Hand-Calculations)
- ▶ Fatigue Life, Impact Analysis
- ▶ Normal Modes, Multi-Body Dynamics, Fluid Dynamics
- ▶ Complex 2D/3D Product Development & Systems Eng.
- ▶ Composites Design & Mfg., Materials Validation
- ▶ Scripting, Templates, Applications Development

CAE Engineering Services for Life Sciences & Medical Devices

- ▶ Heart Stent & Valve Simulation
- ▶ Blood Flow Simulation In Plaque Filled Artery
- ▶ Bone Fracture Simulation
- ▶ Design of Orthopedic Screws & Fixation Device
- ▶ Rib Plate Fixation Device
- ▶ Bone Regrowth Modeling
- ▶ Hip Joint Replacement Simulation & Fracture Analysis
- ▶ Capsule Endoscopy Device Design
- ▶ Simulation of Various Standard Testing In Virtual Lab of DS
- ▶ Needle Design & Analysis
- ▶ Tissue Modeling Using Visco Elastic Material
- ▶ Blood flow
- ▶ Surgical Equipment
- ▶ Bone & Spine Implant
- ▶ Connected Devices

Differentiators

- ▶ Locally-Managed 24/7 Domestic & Global Teams
- ▶ Domestic & Global Eng. & Adv. Analysis Rates
- ▶ 20+ Years Sr. Program Mgmt. Expertise (Local/Global)
- ▶ Strategic Partnerships - Exceeding Expectations
- ▶ Full Teams of PhD's & Sr. Program Managers
- ▶ Adv. Process Assessment & Technology Transformation
- ▶ 35+ Dassault Technology Certifications



List of Tools

- ▶ Classical Method Hand Calculations
- ▶ Abaqus
- ▶ NASTRAN
- ▶ Adams / SimPack
- ▶ FEMAP
- ▶ Ansys
- ▶ LS-Dyna
- ▶ MATLAB
- ▶ MADYMO
- ▶ HyperMesh
- ▶ HyperGraph
- ▶ HyperView
- ▶ Patran/Apex
- ▶ CST
- ▶ Tosca
- ▶ Isight
- ▶ fe-safe
- ▶ nCode/AFGROW
- ▶ Simulink
- ▶ CATIA
- ▶ 3DEXPERIENCE
- ▶ SOLIDWORKS
- ▶ Unigraphics NX
- ▶ PTC Creo/Pro-E
- ▶ Design Space
- ▶ ShipConstructor
- ▶ Python/C++/VBA
- ▶ Fortran
- ▶ Scripts/Templates

NAICS & PSC Codes

541330- Engineering & Analysis Services
541715- Engineering Research & Dev.
541512- Computer Aided Engineering
541340- Drafting Services
561330- Prof. Employer Organizations
561320- Temporary Help Services
R408 - Program Mgt. / Support Services

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