QANTUR TECHNOLOGIES

INNOVATION THROUGH SIMULATION

Engineering Innovation Through Simulation

Ansys

AUTHORIZED PARTNER

Qantur Technologies is an **Authorized Ansys Partner** delivering advanced simulation products, engineering services, training, support, and consulting to help organizations design better, innovate faster, and lead with confidence.



QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

EMPOWERING INDUSTRIES WITH SIMULATION-LED ENGINEERING



Qantur Technologies is an **Authorized Ansys Channel Partner** delivering simulation-driven solutions that help organizations design smarter, test virtually, validate with confidence, and optimize performance.

We combine deep engineering expertise, industry knowledge, and best-in-class Ansys technology to solve complex challenges and accelerate innovation across the product lifecycle.

QANTUR AT A GLANCE

FOUNDED

2017

Built on a foundation of engineering excellence and customer trust.

AUTHORIZED PARTNER

Proud Ansys Channel Partner delivering trusted simulation solutions.

PRODUCTS & SERVICES

End-to-end simulation solutions, consulting, and integration tailored to your needs.

TRAINING & SUPPORT

Expert-led training and technical support to maximize your simulation success.

MULTI-INDUSTRY EXPERTISE

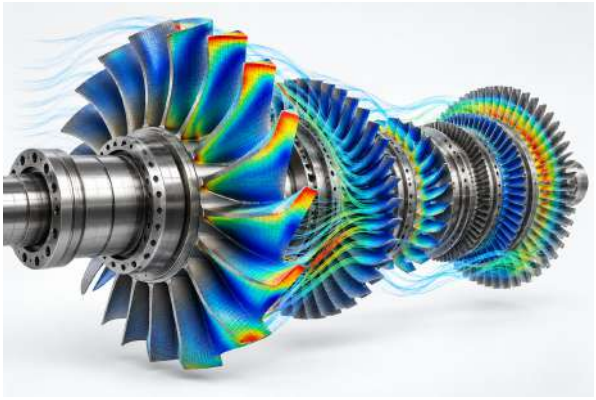
Proven experience across aerospace, automotive, energy, electronics, and more.

REGIONAL REACH

Serving customers across the Middle East, India, and beyond with local expertise.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

From Concept to Confidence



We transform ideas into high-performing products through a seamless simulation-driven lifecycle.

THE SIMULATION LIFECYCLE

01 **CONCEPT**
Define goals, requirements, and performance targets.

02 **DESIGN**
Create and refine digital models with engineering intent.

03 **SIMULATION**
Analyze performance using advanced simulation tools.

04 **VALIDATION**
Validate results against real-world data and tests.

05 **OPTIMIZATION**
Refine design for maximum performance and efficiency.

06 **PRODUCTION**
Deliver better products to market with confidence.

ENGINEERING BENEFITS

- Reduce prototypes and physical testing
- Validate early and reduce design risks
- Improve performance and reliability
- Optimize designs for efficiency
- Explore more possibilities, faster
- Make data-driven engineering decisions

BUSINESS IMPACT

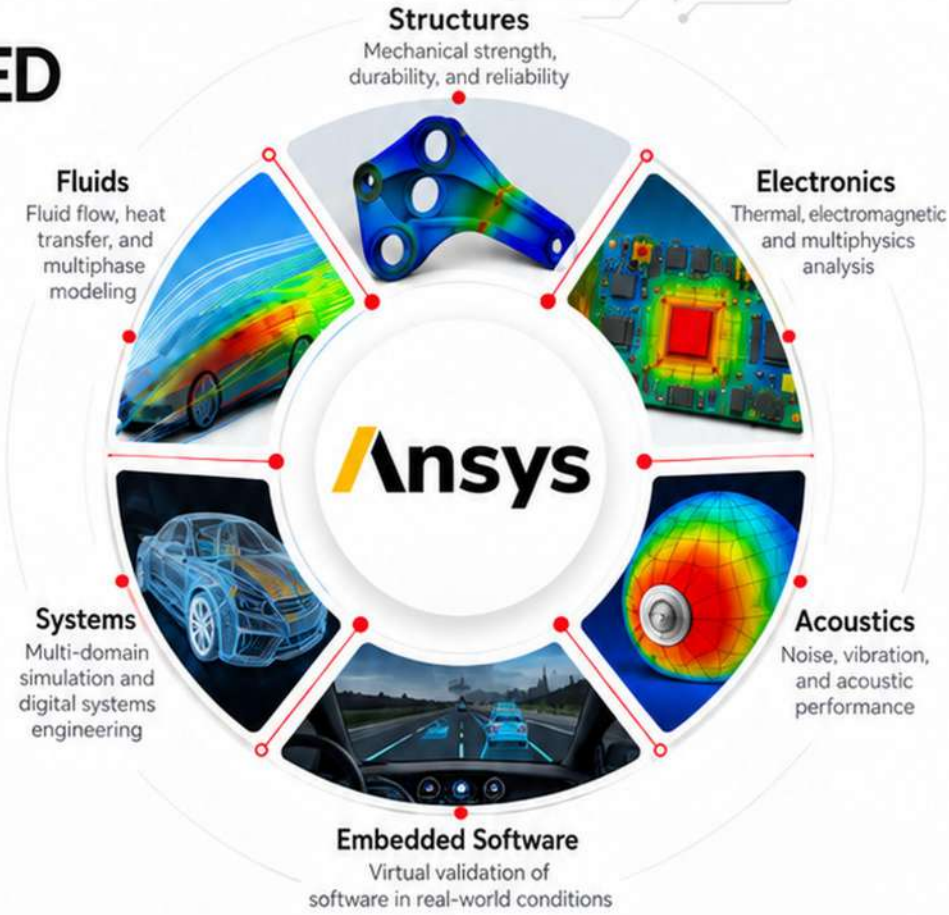
- Faster time-to-market
- Lower development cost
- Higher product quality
- Stronger innovation pipeline
- Greater customer satisfaction
- Better ROI through smarter decisions

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

ONE INTEGRATED SIMULATION ECOSYSTEM

Qantur Technologies leverages the Ansys simulation ecosystem to deliver connected, high-fidelity engineering solutions across the entire product development lifecycle.

From concept to operation, we help organizations solve complex challenges with trusted Ansys tools, integrated workflows, and deep domain expertise.



SIMULATION ECOSYSTEM

MULTI-DOMAIN CAPABILITIES

Unify structural, fluid, thermal, electromagnetic, acoustic, and system simulation in one platform.

INTEGRATED WORKFLOWS

Seamless data flow across disciplines for faster, more accurate insights.

SCALABLE SOLUTIONS

From desktop to cloud and HPC, enabling simulations of any size or complexity.

REAL-WORLD ACCURACY

High-fidelity physics for confident decision-making.

FASTER INNOVATION

Reduce development time with virtual prototyping and optimization.

EXPERT SUPPORT

Leverage Qantur's deep Ansys expertise across industries and applications.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

One Integrated Simulation Ecosystem

Qantur Technologies delivers a comprehensive simulation ecosystem powered by ANSYS, integrating physics, data, intelligence, and workflows to accelerate innovation, reduce risk, and drive better decisions across the product lifecycle.



ONE ECOSYSTEM. ENDLESS POSSIBILITIES.

SIMULATE SMARTER. INNOVATE FASTER.

POWERING INNOVATION ACROSS INDUSTRIES.

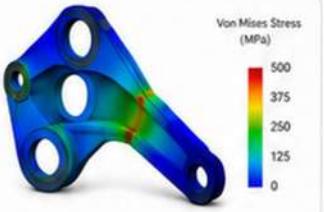
QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

High-Fidelity Simulation Across Engineering Disciplines

Qantur Technologies delivers high-accuracy, physics-based simulation across key engineering domains—empowering smarter design, faster iteration, and confident decision-making.

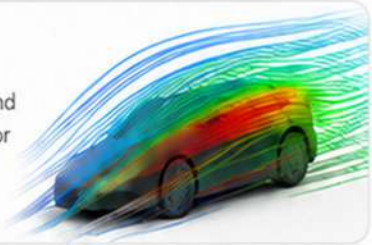
STRUCTURES

Strength, durability and reliability under real-world loads and conditions.



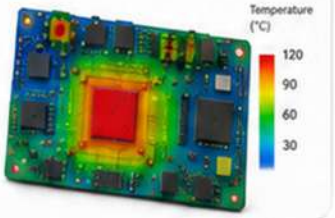
FLUIDS / CFD

Fluid flow, heat transfer and multiphase phenomena for optimal performance.



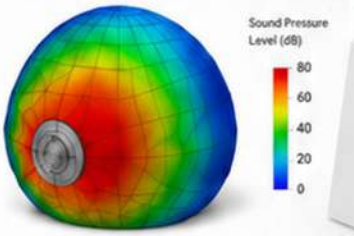
ELECTRONICS

Thermal, electromagnetic and multiphysics analysis for reliable electronic systems.

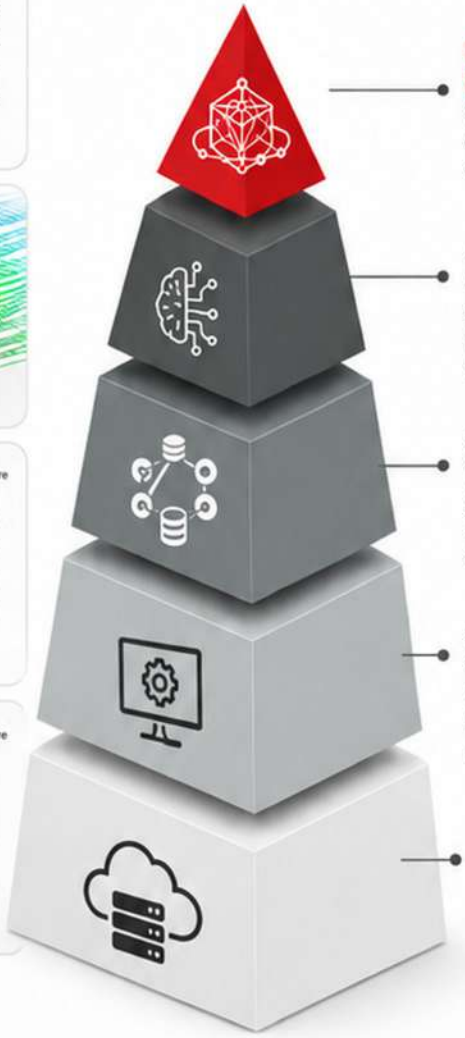


ACOUSTICS

Noise, vibration and acoustic performance for better NVH outcomes.



Connected, Scalable and Intelligent Engineering



DIGITAL TWIN / MISSION READINESS
Virtual validation for operational excellence and mission success.

AI ASSISTANCE & AUTOMATION
Smarter insights, faster decisions, higher productivity.

CONNECTED WORKFLOWS & DATA
Seamless collaboration and data-driven engineering.

SIMULATION SOLVERS
Best-in-class solvers for accurate and robust results.

CLOUD / HPC SCALABILITY
Elastic compute power for models of any scale.

ENGINEERING IMPACT THAT MATTERS

Better Performance
Optimize early, perform with confidence.

Faster Time-to-Market
Iterate faster, validate smarter.

Lower Risk
Predict issues early, reduce uncertainty.

Lower Cost
Reduce physical tests and avoid rework.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

KEY SERVICE AREAS

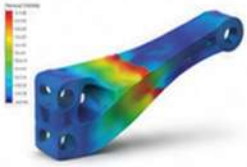
SIMULATION SERVICES DESIGNED TO SOLVE REAL ENGINEERING CHALLENGES



Qantur Technologies provides application-focused engineering services that help organizations validate designs, optimize performance, reduce development risk, and accelerate innovation.

1 FEA & STRUCTURAL ANALYSIS

Strength, durability, vibration, fatigue, nonlinear and thermal stress analysis.



2 CFD & THERMAL-FLUID ANALYSIS

Fluid flow, heat transfer, turbulence, multiphase flow, HVAC, and thermal management.



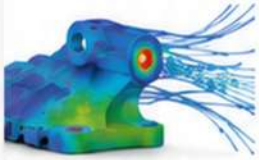
3 ELECTRONICS COOLING & ELECTROMAGNETICS

PCB thermal analysis, EMI/EMC, signal integrity, power integrity, and cooling.



4 MULTIPHYSICS SIMULATION

Coupling of structural, thermal, fluid, and electromagnetic behavior.



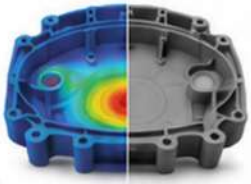
5 DESIGN OPTIMIZATION

Parametric studies, design exploration, performance improvement, and weight/cost reduction.



6 SIMULATION-DRIVEN PROTOTYPING

Virtual validation before physical build to reduce iterations and speed development.



7 TEST CORRELATION & VALIDATION

Correlate simulation with test results for better accuracy and confidence.



8 HPC & CLOUD SUPPORT

Scalable compute resources for faster simulations and larger models.



9 TECHNICAL ADVISORY & CONSULTING

Expert guidance on simulation strategy, tool adoption, workflow setup, and best practices.



10 TRAINING & CAPABILITY DEVELOPMENT

Practical training, certification, and knowledge transfer.



HOW WE DELIVER VALUE

1. UNDERSTAND CHALLENGE
2. SELECT RIGHT PHYSICS
3. BUILD & SOLVE MODEL
4. VALIDATE RESULTS
5. OPTIMIZE & RECOMMEND

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

Simulation Services Designed to Solve Real Challenges

From concept to production, our simulation expertise helps you reduce risk, accelerate innovation, and deliver better-performing products.



FEA & Structural Analysis

Evaluate strength, durability, and performance under real-world loads.



CFD & Thermal-Fluid Analysis

Optimize fluid flow, heat transfer, and system efficiency.



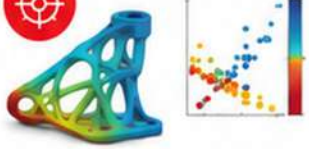
Electronics Cooling

Ensure reliable performance with accurate thermal management.



Multiphysics Simulation

Capture the interaction of physics for real-world accuracy.



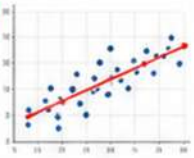
Design Optimization

Explore more possibilities and identify the best design with confidence.



Simulation-Driven Prototyping

Validate early, iterate fast, and bring better products to market.



Test Correlation

Correlate simulation with test data for trusted decisions.



HPC & Cloud Support

Leverage high performance computing for complex simulations at scale.

Reliable Support for Continuous Engineering Productivity

1. **Query Submission** — You reach out with your question or issue.
2. **Ticket Creation** — We log and prioritize your request.
3. **Diagnosis** — Our team analyzes the issue and identifies the root cause.
4. **Expert Session** — Connect with our engineers for live guidance and solutions.
5. **Resolution** — We implement the solution and verify the outcome.
6. **Knowledge Transfer** — We share insights to help you move forward independently.

WE'RE HERE TO SUPPORT YOU

- **Installation & Licensing** — Smooth installation and license management support.
- **Platform Compatibility** — Ensure optimal performance across supported environments.
- **Workflow Guidance** — Get help to build efficient and reliable simulation workflows.
- **Remote Support Sessions** — Live remote sessions for fast and effective assistance.
- **Knowledge Sharing** — Access tutorials, tips, and resources to build your expertise.
- **Best Practices** — Proven practices to achieve accurate, reliable, and repeatable results.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

SIMULATION SERVICES DESIGNED TO SOLVE REAL CHALLENGES

From model development to decision support, Qantur Technologies delivers end-to-end simulation services tailored to your goals, domain, and complexity.

OUR ENGINEERING SERVICES

SIMULATION MODEL DEVELOPMENT

Custom-built physics-based models tailored to your system, objectives, and operating conditions.

ANALYSIS & OPTIMIZATION

Extract deeper insights, explore design alternatives, and optimize performance, safety, and efficiency.

TECHNICAL CONSULTING & ADVISORY

Expert guidance on simulation strategy, methodology selection, and result interpretation.

HIGH-PERFORMANCE COMPUTING (HPC)

Scalable computing solutions for large, complex, and high-fidelity simulations.

TRAINING & CAPACITY BUILDING

Customized training programs to build in-house simulation expertise and capabilities.

ONGOING SUPPORT

Continuous technical support to ensure long-term success and model value.

ENGINEERING SERVICES AND CUSTOMER SUPPORT

1. **IDENTIFY NEED**
   Define project scope, required skills, duration, and support model.
2. **SELECT RESOURCE MODEL**
   Choose offsite, hybrid, or dedicated resource support.
3. **DEPLOY SKILLED ENGINEERS**
   Assign application-focused simulation experts aligned to the project.
4. **ACCESS CLIENT TOOLS & INFRASTRUCTURE**
   Work using client licenses/hardware or agreed delivery setup.
5. **EXCESTE WITH GOVERNANCE**
   Weekly reviews, progress tracking, technical coordination, and milestone reporting.
6. **DELIVER OUTCOMES**
   Simulation studies, reports, design recommendations, and engineering support.
7. **SCALE OR EXTEND**
   Continue for 6 months, 1 year, or project-based extension as needed.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

Structured Training for Practical Simulation Skills

Build real-world simulation expertise through structured, hands-on training.

Training Modes

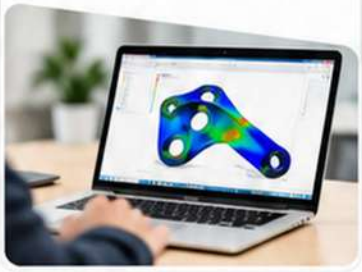
INSTRUCTOR-LED TRAINING (ILT)

Live, expert-led sessions.



SELF-PACED E-LEARNING

Learn anytime, anywhere.



CORPORATE WORKSHOPS

Tailored for your team.



POST-TRAINING SUPPORT

Continued guidance for your success.



Certification Levels

CERTIFIED SIMULATION ENGINEER BASIC LEVEL

Basic Certification

Build core fundamentals.

CERTIFIED SIMULATION ENGINEER STANDARD LEVEL

Standard Certification

Strengthen applied skills.

CERTIFIED SIMULATION ENGINEER ADVANCED LEVEL

Advanced Certification

Master advanced workflows.

Key Training Domains

- FEA / Structures
- CFD / Fluids
- Electronics Cooling
- Acoustics
- Multiphysics
- AI & Data-Driven Simulation

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

HOW EXTENDEDGE WORKS

FLEXIBLE RESOURCE EXTENSION FOR SIMULATION-LED ENGINEERING

ExtendEdge helps you scale simulation capability quickly through dedicated resources, proven workflows, and seamless collaboration.

1 IDENTIFY NEED
Define scope and requirements.

2 SELECT RESOURCE MODEL
Choose offshore, hybrid, or dedicated support.

3 DEPLOY SKILLED ENGINEERS
Assign experts aligned to your project.

4 ACCESS CLIENT TOOLS & INFRASTRUCTURE
Work using your licenses or agreed setup.

5 EXECUTE WITH GOVERNANCE
Track progress with regular reviews and reporting.

6 DELIVER OUTCOMES
Receive studies, reports, and recommendations.

7 SCALE OR EXTEND
Continue to scale or extend as needed.

EXTENDEDGE ENGAGEMENT MODES

OFFSITE DELIVERY
Dedicated remote engineering support.

HYBRID DELIVERY
Remote execution with periodic onsite collaboration.

DEDICATED RESOURCE EXTENSION
Long-term aligned **engineering** support embedded with client needs.

KEY BENEFITS

- FASTER ACCESS TO EXPERTISE
- FLEXIBLE TEAM SCALING
- LOWER HIRING BURDEN
- BETTER PROJECT CONTINUITY
- CONSISTENT TECHNICAL REPORTING
- IMPROVED DELIVERY SPEED

BEST SUITED FOR

PEAK WORKLOAD SUPPORT
Handle workload surges without compromising timelines.

SPECIALIZED SIMULATION TASKS
Access niche skills for complex or domain-specific analysis.

LONG-DURATION PROGRAMS
Sustain engineering support across extended project lifecycles.

CAPABILITY EXTENSION
Expand simulation capability without long-term hiring.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

AND CUSTOMER SUPPORT

ExtendEdge

Your Extended Engineering Team

On-demand access to Qantur's engineering experts, tools, and proven workflows to scale capacity, accelerate projects, and achieve better outcomes.

A Collaborative Process for Your Success

From your need to real impact — a simple, transparent process.

1. **Submit Request** — Share your requirement.
2. **Plan & Prioritize** — We log and align on goals.
3. **Analyze** — We identify the root cause.
4. **Expert Guidance** — Connect with our engineers.
5. **Solve & Verify** — We implement and validate the solution.
6. **Share & Scale** — Insights to move forward.



Proven Capabilities

- ANSYS & Solver Experts
- Rapid Model Setup
- Long-Term Engagement
- Training & Knowledge Transfer

Flexible Engagement Modes

- **Project-Based Support** — Focus on defined goals and deliverables.
- **Dedicated Engineering Team** — An extension of your organization.
- **Long-Term Partnership** — Continued support for evolving needs.

Key Benefits

- **Faster Time-to-Market** — Accelerate development with expert support.
- **Access to Expertise** — Tap into deep multi-physics skills.
- **Cost-Effective Scaling** — Get the right expertise without overhead.
- **Knowledge Retention** — Build internal capability through collaboration.

Best Suited For

- **Automotive** — Vehicle performance, NVH, thermal.
- **Aerospace & Defense** — Structural, thermal, systems analysis.
- **Industrial Equipment** — Durability, optimization, multi-physics.
- **Energy & Sustainability** — Thermal, fluid and structural analysis.

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

OUR CUSTOMERS

Organizations advancing engineering, innovation and product development

AUTO-LEK A TRUSTED NAME | AUTO-LEK ELECTRIC HEART OF EV

DCM SHRIRAM
Growing with trust

DREAM AEROSPACE

Elin एलिन

EndureAir
Fly with Purpose!

Envirotech SYSTEMS

EULER

FLOVEL
Advantage on your side

FLOWMORE
Flow for life

IoTechWorld

KHATIB & ALAMI

MV ELECTROSYSTEMS LTD.

NTF
GROUP HOLDING

NIRMON
MARINE & OFFSHORE DESIGN

STAHL
CraneSystems

S&O MARITIME

SYSTRA

Temple'

VAREL
ENERGY SOLUTIONS

QANTUR TECHNOLOGIES
INNOVATION THROUGH SIMULATION

SIMULATION EXPERTISE ACROSS CRITICAL INDUSTRIES

- AUTOMOTIVE & MOBILITY
- AEROSPACE & DEFENSE
- ELECTRONICS & SEMICONDUCTORS
- ENERGY & POWER
- OIL & GAS
- INDUSTRIAL EQUIPMENT
- HEALTHCARE & MEDICAL DEVICES
- CONSTRUCTION & INFRASTRUCTURE
- MARINE RAIL & TRANSPORTATION
- CONSUMER GOODS
- MATERIALS & CHEMICALS
- ACADEMIC & RESEARCH

HELPING INNOVATORS MOVE FASTER WITH SIMULATION

1. IDEA
From concept to engineering challenge

2. SIMULATION ACCESS
Leverage our expertise, tools & HPC infrastructure

3. VIRTUAL VALIDATION
Test, iterate & optimize through accurate simulation

4. PROTOTYPE REDUCTION
Minimize physical tests & development iterations

5. MARKET READINESS
Accelerate time-to-market with confidence

GET IN TOUCH

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