



Systems Engineering & Integration

TQI Solutions provides end-to-end systems engineering & integration that keeps defense and federal systems mission-ready. With more than 20 years of Navy and DoD experience, our teams deliver requirements management, design analysis, technology insertion, lifecycle sustainment, and test & evaluation that ensure systems perform reliably in real-world operational environments.

We bring clarity to complexity by aligning technical solutions with mission priorities—reducing risk, improving performance, and strengthening readiness.



Core Competencies

- ⦿ **Engineering Support** across the full system lifecycle
- ⦿ **Requirements Management & Validation** ensuring mission alignment
- ⦿ **Technology Insertion & Gap Analysis** to improve capability and system performance
- ⦿ **Lifecycle Sustainment Analysis** to maintain readiness and reduce long-term risk
- ⦿ **Test & Evaluation including** coordination with Operational Test Activities (OTAs)

Past Performance

- ✦ **NAVSEA**
Delivered lifecycle sustainment analysis and test & evaluation under operational conditions to ensure mission assurance.
- ✦ **USFF**
Supported requirements management and integration to ensure readiness across enterprise systems during modernization and consolidation.
- ✦ **OPNAV**
Provided engineering support for capability development and risk reduction.

Differentiators

- ✦ **Deep expertise in Model-Based Systems Engineering (MBSE) and lifecycle sustainment**
- ✦ **Veteran-owned with extensive Navy and DoD engineering support experience**
- ✦ **99% on-time delivery across active projects**
- ✦ **Proven ability to integrate technical design with operational mission requirements**
- ✦ **Track record of validating systems in demanding, real-world environments**

Company Data

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NAICS Codes: Primary - 541330 | Secondary - 54151S

CAGE Code: 4JRW3

Socio-Economic Status: Service-Disabled
Veteran-Owned Small Business (SDVOSB)

Contract Vehicles: SeaPort NXG, GSA MAS,
OSD ATSS, OASIS+



How We Deliver

- Apply rigorous systems engineering methodologies—including MBSE—to design, optimize, and integrate mission systems
- Align technical requirements with operational realities to ensure systems perform as intended
- Conduct technology gap analyses and insert improvements that enhance mission readiness
- Plan for lifecycle sustainment to keep systems reliable, affordable, and mission-ready
- Lead test & evaluation activities to validate performance, safety, and compliance

Client Impact

- ✦ **NAVSEA**
Increasing reliability through sustainment analysis and operational test & evaluation
- ✦ **USFF**
Improving readiness through requirements alignment and integrated systems support
- ✦ **OPNAV**
Reducing technical and operational risk with engineering assessments and capability development

Case Study



Challenge

NAVSEA and NAVAIR needed rigorous testing and sustainment analysis to ensure mission-critical systems could withstand demanding operational environments.



Solution

TQI delivered engineering support, lifecycle sustainment analysis, and coordinated test activities with OTAs to validate performance and reduce risk.



Outcome

- Verified compliance with Navy and DoD technical standards
- Reduced mission risk through early identification of design gaps
- Increased operational confidence and readiness
- Strengthened reliability across system portfolios



Our People & Culture

Our people are our strength. Guided by our core values of Trust, Quality, and Innovation, we foster collaboration, accountability, and transparency. More than half of our workforce are veterans, bringing firsthand operational insight and a shared commitment to mission readiness.

Why It Matters

Systems that don't integrate, sustain, or perform reliably create mission risk.

TQI ensures systems are designed, tested, and supported to operate with confidence in real-world environments — reducing risk, improving performance, and strengthening national security.



Learn more at
tqiinc.com

