



Development and Integration Program

Full Lifecycle Engineering for Mission Systems



KBR's Development and Integration (DI) Program has capabilities that cover a wide variety of undersea, surface, shore, airborne, mobile, lab and space systems. The program uses AS9100-certified processes to ensure the highest quality for product development, ranging from commercial and civilian government systems to complex modern military manned and unmanned weapon systems. The DI staff are certified to IPC J-STD-001 and IPC/WHMA A-620 for assembly and are also experienced in SAE AS50881 and NAVAIR 01-1A-505-1 for aircraft integration.

AREAS OF EXPERTISE

KBR's DI Program experience provides customers with capabilities, capacity, continuity and commitment:

- **Products:** Vehicle, mission and weapon systems development; mobile/carry units, flight-line systems and airborne pods; and custom RDT&E and fleet platforms upgrades.
- **Capabilities:** DI laboratory services; electrical and mechanical design and analysis; rapid prototype, assembly and qualification testing; platform modification/integration and ground/flight test; depot upgrade, repair, rework and calibration of fleet equipment; and cybersecurity architecture development and vulnerability assessments for tactical systems.
- **Quality Management System Scope of Certifications:** AS9100D - develop, design, manufacture, modify, repair, rework, integrate, test, install and sustain components and complex mission systems with a concentration in sustainment and professional engineering services in aerospace.

PROVEN PERFORMANCE

KBR's DI program is a certified AS9100 Quality Management System for aviation, space and defense. We have an established record performing a broad range of technical services to develop and support our products for manned and unmanned vehicles, mission payloads and weapons systems. Services include:

- KBR concept trade studies and analysis of alternatives
- Size, weight and power and cost (SWaP-c) and cost analysis
- Structural, thermal and aerodynamic analysis
- Electronic signal and electromagnetic/RF analysis
- Electronic circuitry design, PCB layout and CCA assembly, and 3D printed electronics research
- Electrical and mechanical design, analysis and assembly
- Ruggedize for EMI (461), Power (704) and Environment (810)

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PROVEN PERFORMANCE *cont.*

- Wire and cable harnesses design, marking and assembly
- Part/system documentation and configuration management
- Material orders, tracking, inspection, inventory and logistics
- Proof-of-concept, rapid prototype and first articles
- Scalable limited-production, fabrication and assembly
- Component and system upgrades, rework and repair
- Build and deliver aircraft integration A-Kits and B-Kits
- Major platform upgrade, modification and integrations
- Developmental, qualification, and operational ground and flight test
- Training, customer service and warranty management
- Tactical cyber lab enables aircraft platform architecture development and testing

WHY KBR?

KBR has more than 35 years of defense, civilian and commercial systems experience, as well as development and integration expertise, with a fully outfitted DI laboratory and remote airfield, tower and hangars for secure flight test. KBR's certified team is ready to assist you with your DI needs.

- Certified customer focused AS9100 and ISO 9001:2015 Quality Management
- Certified by NAVAIR METCAL Program to NA 17-35QAC-01B JNAC Program
- Certified IPC J-STD-00 and IPC/WHMA A-620 staff
- Experienced SAE-AS50881 and NAVAIR 01-1A-505-1 staff

NEXT STEPS

To learn more about KBR's Development and Integration Program, contact Wayne Devereux at wayne.devereux@us.kbr.com or 301-863-4290.

ABOUT US

We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 28,000 people performing diverse, complex and mission critical roles in 34 countries.

KBR is proud to work with its customers across the globe to provide technology, value-added services, and long-term operations and maintenance services to ensure consistent delivery with predictable results. At KBR, We are the Team Behind the MissionSM.