Pro2Serve provides engineering and technical services supporting government and private-industry critical and challenging missions — helping ensure our Nation’s security.

- **30 years of broad engineering, technical and management experience** focused on facilities and infrastructure, environmental services, security systems, nuclear nonproliferation, and program management for the U.S. Department of Energy (DOE), the Department of Defense (DoD), and utilities such as TVA.
- **Corporate headquarters** in Oak Ridge, TN, along with eight locations across the country adjacent to client sites.
- **Security**: Significant experience working with multiple government agencies on projects involving sensitive information, including classified, controlled unclassified, and safeguarded information.
- **Quality**: ISO 9001:2015 certified and NQA-1 approved.
- **Safety**: 7 million work-hours without a lost-time incident.
- **Project Management**: Consistent with PMBOK and full earned value capability.

**Facilities and Infrastructure Architecture/Engineering**
- Programming and conceptual design studies
- New construction and extensive renovation work
- Cost estimating/scheduling
- Certified for construction packages
- Construction administration
- Test engineering/startup/commissioning
- Design/Build
- Sustainable and LEED designs
- Building Information Modeling (BIM)

**Planning/Design for Data Centers**
- Tier 1 through Tier 4 criticality data center planning and design experience
- Flexibility and scalability involving site location, building selection, layout, systems design and modularity
- Integrated Data Center design and implementation to optimize electrical power, space allocation and mechanical systems

**Critical Building Systems**
- Natural phenomena hazard analysis
- Specialty facilities and equipment deactivation and facility consolidation
- Redundancy for power source/distribution and HVAC systems, plus design work for fire protection, security and raised flooring systems

**Commercial Nuclear Security, Engineering and Architecture**
- Experience with preparing and issuing Engineering Change Packages (ECP) per Site Procedures
- Engineering Qualifications and Working Knowledge of Procedures / Processes for Utility sites
- NQA-1 approved Quality Program
- Previous SGI trained personnel with Nuclear Unescorted Access Authorization (UAA) with clearance for SGI
- In-House capabilities for all engineering disciplines, as well as Security

**LANL Weapons Office Renovation**: Integrated design/bid/build process was used for renovation of a 16,000-SF office building. Fast-track design completed in 12 weeks. Renovations included exterior, interior and new MEP systems.

**LANL Media Center**: New building designed with whole systems using BIM. A systemic, highly coordinated engineering approach links our ISO 9001 certified processes to how we perform work using established BIM standards. Building partnerships seamlessly integrates design/build and gains efficiency for faster delivery.

**LANL RC45 Laboratory Addition**: Design services for a new 10,000-SF chemistry-nuclear and radiochemistry lab included wet chemistry labs and a Class 10,000 clean room. Building is certified LEED Gold.
CASE STUDY: DATA CENTERS

DOE Office of Science Technology and Information (OSTI)

Detailed design and technical specifications for new HVAC system

OSTI, a component of the Office of Science within the U.S. Department of Energy, maintains the publicly available collections of scientific and technical information resulting from research, development, demonstration, and commercial applications.

The existing data center and data collection facilities’ constant air volume HVAC system did not meet the current space control and comfort requirements of the data center and data collection facility and was approaching its 20-year end of life. The new design takes advantage of envelope upgrades that had been made through the years, and saves more than $50,000 per year in utility costs — allowing OSTI to reach energy reduction guidelines as specified in the Federal High Performance and Sustainable Buildings.

Test and Balance and a commissioning plan were developed for both water and air side. Leak protection and humidity controls were provided where appropriate to meet the requirements of the mission-critical data center and records storage.

Critical Building Systems Experience

- Power Source/Distribution — Three lines of defense for backup power; additional capacity built into the main components to accommodate future growth.
- HVAC — Redundancy by installing multiple units, focus on rack and tile placement to maximize efficient flow of chilled air.
- Fire Protection systems — Firewall installation, heat and smoke detectors, chemical “clean agent” systems.
- Security — Perimeter/access control, CATV, Biometrics, centralized monitoring.
- Raised Flooring systems – Height relative to overall data center size; considerations to ensure maximum floor loading capability.

Construction Management Services

- Project Controls
- Quality Assurance (including NQA-1) inspections
- Preconstruction activities
- Construction support
- Engineering support
- Owner’s representative services, including submittal reviews, site inspections, field change requests, and as-built drawings

Melton Valley: Civil engineering and management for large mixed hazardous waste remediation project consisting of an engineered cap, groundwater control and site restoration.

US ARMY CORPS OF ENGINEERS

TASK FORCE POWER RESTORATION

Corps of Engineers: On-site scheduling and construction management support includes status updates, progress reporting.

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Design & Construction Phase (Title II–III) services to revitalize an existing 4,000 SF facility at LANL as a low-level radiochemistry laboratory.