Defense & Security
I would try to build a company providing every kind of engineering service in every corner of the world.

Dr. Louis Berger
Founder
Louis Berger

Louis Berger is a global professional services corporation that helps infrastructure and development clients solve their most complex challenges. We are a trusted partner to national, state and local government agencies; multilateral institutions; and commercial industry clients worldwide.

Louis Berger operates on every habitable continent, represented by the multidisciplinary expertise of nearly 6,000 engineers, economists, scientists, managers, technicians and planners. By focusing on client needs to deliver quality, safe, financially-successful projects with integrity, we are committed to deliver on our promise to provide Solutions for a better world.
Louis Berger’s solid presence and roster of projects have established the company as a leading global infrastructure and professional services corporation. Louis Berger leverages the know-how of its engineers, architects, scientists, planners and technicians to deliver complex projects on time and on budget in the following markets:

- Agriculture
- Buildings and Facilities
- Defense and Security
- Economic and Institutional Development
- Environment
- Mining and Minerals
- Power and Energy
- Transportation
- Water
Louis Berger offers a range of technical experts operating across 10 major technical service and subservice areas, including:

- Architecture
- Capacity Building and Technical Assistance
- Heritage Resource Management
- Economics and Financial Services
- Emergency and Disaster Management
- Engineering
- Environmental Services
- Operations and Maintenance
- Planning
- Program and Construction Management
1950s Louis Berger was founded in 1953.

1960s Louis Berger expands across the globe

1970s Louis Berger’s environmental practice takes shape.
HISTORICAL TIMELINE

1980s
Louis Berger expands its U.S. practice.

1990s
Louis Berger undertakes a wider range of large-scale infrastructure projects.

2000s
Louis Berger’s services reflect the world’s rapidly evolving political and environmental climates.

2010s
Louis Berger restructures its leadership and practices for greater global mobility and business transparency.
**United States**

Operating on 23 military installations with experience on 50+ nationwide

Decades of support to the U.S. Army, Navy, Coast Guard, Marine Corps and Air Force

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**Latin America & Caribbean**

Provided police advisors in Mexico and Colombia and facility master planning in Honduras

Experience in every independent country in Latin America

More than 100 employees in regional hub office in Panama

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**Europe & Commonwealth of Independent States**

Supporting the U.S. military in Germany and Spain

Offices in Ukraine, Romania, Bulgaria, England, France, Spain

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**Africa**

25 offices in Africa and experience in every African country
Middle East
Currently operating on military bases in Qatar, Kuwait, and Iraq
800 employees in the region with offices in Qatar, Saudi Arabia, Kuwait, United Arab Emirates

Southwest Asia
Operating in Afghanistan since 2001

Asia
More than 1000 employees
Ongoing operations in South Korea, Japan, and Philippines

Pacific Region & Australia
Ongoing support of military operations in Mariana Islands and Hawaii
Decades of experience in Pacific islands including Kwajalein, Marianas Islands, Guam, and American Samoa

United States
Charleston Defense Fuel Supply Point
Pentagon Secure Access Lanes

Middle East
Contingency Engineering and Base Operations Support
Kuwait
Army Preposition Stock Maintenance and Management
Louis Berger provides support to the defense industry where it’s needed and when it’s needed. We have the global resources to be in the right place at the right time to supply integrated support throughout a project’s lifecycle – from planning to design and engineering to construction and program management and from logistics to operations and maintenance. For the Defense & Security sector, Louis Berger has specialized expertise in the realignment of military bases—from greenfield development to base closure and in ensuring physical security through upgrades, blast protection engineering. Louis Berger works around the world to engineer life-improving solutions, foster sustainable communities and protect national and natural resources.

For more than 60 years we have worked with federal clients including U.S. Army, U.S. Navy, U.S. Marine Corps, U.S. Air Force, Department of Homeland Security and Department of State. We support global defense contractors as well.

By leveraging our existing relationships with local governments and workforces, we successfully complete contract missions while operating within host nation laws and boosting the local economies.
OUR EXPERTISE

ALTERNATIVE PROJECT DELIVERY
Design Build
Public-Private Partnerships

ARCHITECTURAL
Architecture
Buildings Engineering (MEP)
Interior Design
Landscape Architecture

CAPACITY BUILDING & TECHNICAL ASSISTANCE

CONSTRUCTION SERVICES
Construction Management
Sustainment, Restoration & Modernization

CULTURAL RESOURCE MANAGEMENT

ECONOMICS & FINANCIAL SERVICES
Economic Analysis
Financial Feasibility

ENGINEERING
Civil
Environmental
Geotechnical
Mechanical/Electrical
Structural
Utilities
Security Engineering, Blast Protection & Security Upgrades

ENVIRONMENTAL SERVICES
Asbestos & Lead Abatement
Environment Assessments/Impacts Studies
Environment Site Assessment/Remedial Investigations
Remedial/Restoration Design
Remediation Construction Oversight
Watershed Planning

EMERGENCY & DISASTER MANAGEMENT

OPERATIONS & MAINTENANCE
Aircraft & Airfield Services
Base Operations & Facilities Support Services
Electrical Utilities & Power Generation
Fuel Services
Logistics
Road/Highway Maintenance
Water/Wastewater Plant Operations

PLANNING
Master Planning
Sustainability/Resilience
Base Realignment & Closure

PROGRAM MANAGEMENT
Building Information Modeling (BIM)
Cost Estimating
Independent Engineering
Owner’s Representative/Advisor
Procurement Management
Project Management Information Systems
Quality Control Assurance
Risk Analysis/Claims Avoidance
Scheduling
Planning is the cornerstone of any project, ensuring that the infrastructure developed is in balance with the communities and environment that surround it.

**Louis Berger** has partnered with clients around the globe to deliver some of the largest planning programs worldwide, from managing the second largest ecosystem restoration plan in the United States to planning military realignment across multiple countries in the Pacific Region. The firm’s expertise spans the full spectrum of disciplines, including transportation, rural and urban, environmental, financial and disaster and emergency planning.

The firm leverages its interdisciplinary teams of professionals to provide clients with solutions that are tailored to their technical requirements and demonstrate an understanding of the social, economic, political and cultural sensitivities of the communities in which we work.

Specialized expertise for U.S. military installations:

- economic analysis
- environmental impact analysis
- Geographic Information Systems (GIS)
- pre/feasibility studies
- right-of-way
- risk assessment
- social impact analysis
- sustainability/resiliency
- traffic analysis and modeling
- transportation studies

**Featured sectors:**

- community and regional master planning
- environmental planning
- facilities planning
- green infrastructure
- natural resources management planning
- rail and transit planning
- transportation planning
- urban design
- water resource planning
Louis Berger provides specialized experience on designing training facilities, airfields, border stations/crossings, diplomatic buildings and the supporting infrastructure of military bases and camps.

Our multidisciplinary approach draws upon the expertise of a diverse range of professionals. From initial concept design through project completion, we are able to support our defense and security clients throughout the project lifecycle.

Specialized expertise:

- airfields terminals
- training facilities
- barracks and dormitories
- healthcare
- administration buildings
- hospitality
- military academies
- marine facilities
- border stations and crossings
- embassies and consulates

Featured capabilities:

- architecture
- blast security
- construction management
- construction surveillance and security systems
- engineering
- environmental services
- historic preservation services
- LEED-certified building design
- master planning
- project controls
- project management
- site analysis selection and development
- sustainable design
- urban planning
Louis Berger provides operations and maintenance support and turnkey delivery across a variety of market sectors, from transportation to buildings and facilities and from water to power and energy. We understand that long after construction crews complete their work, the sustainability and return on an infrastructure investment are dependent on appropriate and sufficient operations and maintenance.

For more than half a century, Louis Berger has supplied maintenance service teams, field service representatives and operations, logistics, engineering and technical services managers to the U.S. government, state and local governments, utilities, original equipment manufacturers and private industry. Leveraging the Louis Berger design and construction expertise, we are able to offer complete facility management services.

FACILITIES
- airfield services
- base operations, maintenance and logistics
- heavy vehicle maintenance and fueling services

TURNKEY OPERATIONS
- power generation and distribution
- bulk fuel storage and delivery
North Air Force Auxiliary Airfield | United States
Louis Berger performs large-scale government services contracts for multiple branches of the Department of Defense and other U.S. government agencies. To these clients, we bring decades of business and operational experience in CONUS and OCONUS locations, including Ramstein, Stuttgart and Spangdahlem, Germany; Rota, Spain; Al Mubarak, Kuwait; and several other critical locations in Southwest Asia and the Far East.

- aircraft corrosion control
- air terminal and ground handling Services (ATGHS)
- aerial delivery services
- aviation system planning
- transient aircraft services (TAS)
- aircraft refueling
- airfield and terminal operations
- air ground handling equipment
- passenger terminal and cargo operations

Louis Berger is a leading provider of Aircraft Services globally. We operate at 30+ military installations in the U.S. (more than a dozen OCONUS) and have been supporting DoD for 40 years.
Louis Berger supports the development of new fuel terminals and pipelines and provides turnkey delivery and operations of fuel storage, bulk fuel products, fuel issue and inventory and fuel system maintenance. For more than half a century, Louis Berger has supplied fuel and fuel services to the U.S. government, state and local governments and private industry. Leveraging the Louis Berger design and construction expertise, our professional staff is able to offer complete facility management services on long term fuel projects.

Louis Berger builds and operates fuel facilities. Further, we own and operate bulk/retail facilities and the complexities that these dual product designs bring.

- retail fuel facilities
- government owned/contractor operated facilities
- alongside aircraft refueling
- recurring maintenance and repair
- fuel farm facility construction
- contractor owned, contractor operated facilities
- bulk fuel storage
- fuel inventory and management
- on-call and emergency repair services

Our sites have received numerous commendations including from the American Petroleum Institute.
Louis Berger supports military logistics through maintenance and operation of military vehicle, aircraft, fuel facilities, and power generation. For major defense contractors and the Defense Logistics Agency, Louis Berger provides exceptional service and value in the maintenance, modification, reset and overhaul of tactical military vehicles, aircraft and Aerospace Ground Equipment (AGE).

We operate bulk fuel storage facilities and provide alongside aircraft fueling services. We deploy and install electrical engineers and provide turnkey power solutions in the most austere environments.

Our technicians, mechanics, and engineers operate globally from the Qatar to United States, from Korea to Spain.
For mission-critical facilities, Louis Berger serves as a utility-grade turnkey provider offering high quality, efficient and reliable power generation. Our integrated power systems provide optimum performance and versatility for stationary standby and continuous power applications. We custom engineer solutions to our clients’ specific needs, and have the ability to provide surge capacity and additional power generation equipment to meet critical delivery deadlines.

Our customized solutions and strategic OEM partnerships allow us to deliver:

- customized power solutions
- turnkey power
- reliable power
- renewable power
- efficient power
- fast power
- energy security
- reduced electricity costs
- power for remote sites
- power at multiple sites
- emergency power
Louis Berger has one of the largest environmental practices in the world, committed to ensuring that future generations have access to clean air and water, fertile soil, open spaces and sustainable resources.

For the defense sector, we provide capabilities in proper planning to avoid environmental impact, in implementing mitigation and compliance measures and in remediation of existing sites.

For every assignment, the firm seeks to minimize environmental effects and optimize opportunities to lessen impacts on the environment and maximize social benefits.

Specialized expertise for defense and security agencies:

- environmental regulatory compliance
- natural resources management
- solid waste and hazardous waste remediation
- resiliency and climate change management

Featured capabilities:

- industrial hygiene/asbestos/lead survey, design and air monitoring
- biological assessments
- environmental assessments
- environmental and social impacts studies
- environmental/hazardous waste management
- environmental remediation services
- feasibility studies
- human health and ecological risk assessments
- natural resource assessments
- natural resource management
- solid waste management
- water resource management
BELGRADE NEW EMBASSY COMPOUND
SERBIA
Completed full architectural design, site/civil design and building systems engineering for a new 10 acre site.

Embassy compound facilities include:
• site perimeter barrier and associated security features
• new office building
• marine security guard quarters
• support annex
• compound access control facilities
• utility building
• parking lots for official, visitor and staff vehicles

WALTER REED NATIONAL MILITARY MEDICAL CENTER
MARYLAND, UNITED STATES
Louis Berger supported the establishment of the consolidated Walter Reed National Military Medical Center, which relocated 2,500 staff from Walter Reed Army Medical Center to the Bethesda Naval Medical Center.

Louis Berger’s role included:
• construction management for new construction and renovation of facilities to address the relocation of over 2,500 staff
• the Environmental Impact Statement included detailed traffic study and transportation management plan
• National Register of Historic Places listed resource and Section 106 consultation
Louis Berger analyzed approaches to help the U.S. Army meet Net Zero energy, water and waste goals at Fort Bliss, the U.S. Army’s second largest military installation.

Louis Berger role included:

- evaluation of waste-to-energy technologies, geothermal development and wind energy development
- alternatives development, impacts analysis, public involvement and agency coordination
- completion of the Environmental Impact Statement and other regulatory compliance activities for constructing and operating alternative energy infrastructure on post
- completion of transportation and air quality studies

Louis Berger provides expert mechanics, technicians and instructors to complete modification to the Bradley Fighting Vehicle. The result is streamlined approach with significant cost savings for military customers.

We provide training, tools and equipment to brigade units. Many of these modification are performed in Iraq, various CONUS installations and active and reserve units throughout the United States. Our experience with Bradley Fighting Vehicles (BFV) includes: performing improved armament; counter improvised explosive device (IED); increased crew protective devices (seats and restraints); cooling system; night vision capabilities; upgraded the torsion bars, shocks, sprockets and support arms; upgrades to vehicle side armor; and performing scheduled and unscheduled maintenance.
NAVAL STATION ROTA GROUND HANDLING SERVICES
ROTA, SPAIN

Under a contract with the U.S. Transportation Command, Louis Berger provides a full spectrum of ground handling services. Louis Berger’s duties include air terminal operations, load planning, special handling of hazardous cargo, joint inspection, transient aircraft services, flight line sweeping and passenger baggage handling.

Louis Berger’s management at the base counts many successes, including:

- effectively operating a U.S. air terminal in a foreign country with a national union work force
- hiring an air terminal ground manager uniquely skilled in working with union and base leadership so all parties are satisfied
- assisting the local community by hiring nearly 200 area people
- achieving Navy goals of saving money through precise management practices

AIRFIELD AREA DEVELOPMENT PLAN SOTO CANO AIR BASE
HONDURAS

The operating mission at Soto Cano Air Base includes humanitarian aid and disaster relief (HADR) for Honduras and neighboring countries. The Airfield Area Development Plan process included interviews with airfield stakeholders, a three-day on-site charrette during which installation leadership and stakeholders developed a capacity based plan for current and surge missions.

The final plan increases the operational tempo through pavement and fuel improvements, quadruples wide-body aircraft operational capacity to greatly increase their capacity for supply and storage of supplies during a HADR event. The plan also consolidates mission functions into a securable U.S. operations district and provides flexibility to accommodate the possibility of a new Honduran commercial air terminal at the site.
The Defense Logistics Agency Energy, a division of the Department of Defense, hired Louis Berger to design and build all aviation fuel storage and issue facilities at the airfields. The construction included two hydrant systems servicing eight heliports.

Louis Berger is responsible for rapid and hot refueling of approximately 40 aircraft per day, using 25 fuel technicians in a contractor owned-contractor operated system.

The services include:

- fuel storage, bulk issue and bulk receipt by truck and rail, quality control, fuel inventory management and fuels accounting
- a strong environmental safety program, especially related to prevention and mitigation of fuel spills
- cold refueling using a truck fleet owned by Louis Berger
- overseeing facilities and operations conducted to the DoD “Best Commercial Standards,” earning Louis Berger an “Exceptional” rating on the project

Louis Berger manages and executes maintenance and minor repair at 25 Defense Logistics Agency fuel facilities across the United States. All real property facilities holding capitalized product are covered under this contract. Louis Berger provides inspection and routine and emergency repair at each facility. Significant emphasis is placed on environmental, quality and safety matters on this contract.

Louis Berger’s work helps to maintain facility condition and maintain asset value, as well as ensure safe and reliable operation with minimal environmental impact from fuel operations.
Pier B has served the Naval Station Bremerton for over 60 years. The pier was in need of replacement with an upgraded structure. The adjacent earth-retaining structures at the head and along the full length of the pier also needed upgrades. Louis Berger’s BergerABAM managed a team in the development of design/build documents for the U.S. Navy to create a request for proposals.

The team provided final design services for the earth-retaining structures, including extensive finite element slope analyses for liquefied soil conditions. Steel piles or concrete piles with continuous sheet pile walls were used in each structure. Vertical faces of the sheet pile walls were allowed to extend below mean high water (up to 15 feet), which is seldom allowed by permitting agencies due to annual migration of salmon.

Louis Berger, in joint venture with another firm, provided global emergency and contingency support services requiring rapid mobilization in support of military missions and humanitarian relief operations worldwide. Louis Berger provides personnel, equipment, materials, services, logistics and all other means necessary to achieve a quick response, worldwide planning and deployment capability. A partial list of services provided includes:

- professional engineering
- project and program management
- skilled trades (e.g. carpentry, plumbing, electrical, mechanical, etc.)
- power production
- lodging management
- utility plant operations
- emergency response management
Louis Berger developed three master plans that provide a flexible structure to inform planning and development decisions over the next 20 years. Each plan identifies types and locations for development, taking into consideration mission realignment, encroachment, reduction of defense budget and the call for sustainable development.

The three master plan areas are: South Range, a half-million acre range poised to accommodate new missions; the Armitage Airfield; and the central laboratory and base support “town center” district, Mainsite. The work includes:

- development of both short and long range capital investment plans for each area
- development of design standards that address the Navy’s policies on sustainable building, low impact development and energy independence
- development of “form-based” guidelines that address how buildings will relate to one another through harmonious scale, massing and materials

The Downtown Area Development at Fort Leonard Wood transforms a disjointed collection of parking lots and single-story big-box buildings into a compact, walkable district, with vertical and horizontal mixed use facilities. The form-based plan establishes a development capacity of up to one million square feet. The Phasing Plan identifies landscape and street improvements that begin to create the framework of blocks and streets. Intermediate phases establish the building form with programmed projects. Future build-out is programmed based on the capacity of the area. The plan exemplifies the tenets of capacity planning and plan based programming.
WEST POINT
NEW YORK, UNITED STATES

Over a decade, Louis Berger has provided professional services to maintain and expand the historic U.S. Military Academy at West Point.

Our projects have included:
- exterior building renovation design
- utility upgrades
- renderings for the North Dock Environmental Remediation
- planning charrette for the perimeter security
- planning and design for exterior renovations of Bartlett Hall

WORLDWIDE PRIME POWER
WORLDWIDE

Louis Berger with its technology partner, Cummins, was commissioned by the U.S. Army Corps of Engineers to install a 30 MW power plant on a fast-track basis. Louis Berger completed installation, testing and commissioning of the power plant in 55 days — including mobilization of equipment to the site — and then began plant operations.

Louis Berger’s cost-effective solution repositioned power generation and supporting electrical equipment from three different sites within Afghanistan, while airlifting other essential material from Dubai directly into Bagram. The installation team worked around the clock to finish the electrical installation. The plant is now operated and maintained with a highly fuel efficient solution compared to turbine technology and has saved the client millions of dollars annually in fuel consumption alone.
PORTS OF ENTRY AND BORDER STATIONS
UNITED STATES
Louis Berger has supported U.S. ports of entry and border station upgrades for more than two decades, along U.S.-Canada and U.S.-Mexico borders.

At the Calexico West Port of Entry, Louis Berger completed a Program Development Study, which included:

- master site plan $200 million facility along the Mexican/U.S. border
- housing plan for new main building, head house and inspection areas
- cost estimate
- facilitated planning between U.S. and Mexican authorities and local jurisdictions

PICATINNY ARSENAL
NEW JERSEY, UNITED STATES
Louis Berger has completed multiple projects at Picatinny Arsenal. Our work has included:

- design charrette and full design services using BIM of a $25 million expansion of the Guns and Weapons Facility
- civil, mechanical, structural, electrical, geotechnical and environmental engineering design for the new underground potable and fire service lines
- design charrette of a $7.5 million upgrade of the ventilation and dust systems in ranges and industrial support areas
- full design and construction documentation and onsite construction support for SCAT gun