Exceptional Commitment To Quality
Kleinfelder is an employee-owned engineering, science, and architecture consulting firm providing solutions to meet our world’s complex infrastructure and natural resource challenges.

At Kleinfelder our business is built on a track record of proven success and long-term relationships. Our breadth of expertise and range of services allow us to bring clients value across multiple aspects and phases of their diverse challenges.

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Dams Overview
Kleinfelder provides in-depth expertise in the design of new dams and remediation of existing dams and facilities. Our capabilities encompass all facets of planning, design, and construction of earthfill, rockfill, gravity concrete, and roller compacted concrete (RCC) dams. Our staff members have been leaders in RCC application in dam rehabilitation, new dam design, and construction since 1985. We provide conceptual through final design plans, specifications, construction cost estimates, and construction management.

Safety
Kleinfelder is at the forefront of risk-based dam and levee safety methodologies evolving across the country. At the core of our water practice is extensive dam safety expertise with a broad spectrum of experience in dam safety inspections, evaluations, and reporting.

Design
Our dam designs are built on proven technology, analysis methods, and a rigorous understanding of design precedence, dam engineering and case histories, and the evolution of critical technology related to soil mechanics, rock mechanics, concrete materials, earthquake engineering, flood hydrology, structural and thermal analysis, and emergency planning.

Hydropower Generation
This renewable energy resource is one of the most economical ways to generate electricity today. Kleinfelder’s team of experts performs feasibility studies, transient analysis, turbine specification, and conceptual through final design for trashracks, intakes, isolation gates, penstocks, and power houses for hydropower generation and related facilities.

Capabilities
- Geological & Geotechnical Analysis
- Seismic Analysis & Design
- Stability Analysis
- Seepage Analysis & Design of Filter/Drainage Systems
- Hydrology and Hydraulic Analysis & Design
- Foundation Analysis & Design
- Structural Analysis & Design
- Civil Design
- Gate & Valve Assessment Analysis & Design
- Instrumentation Design
- Dam Surveillance & Monitoring

Partial Client List
- U.S. Army Corps of Engineers (USACE)
- Hawaii Department of Land & Natural Resources
- Cow Creek Band of Umpqua Tribe of Indians
- PacifiCorp Energy
- Clean Water Services/Tualatin Basin Water Supply
- U.S. Bureau of Reclamation (USBR)
- Natural Resources Conservation Service
- Town of Brookline, MA
- East Bay Municipal Utility District (EBMUD)
- Puget Sound Energy (PSE)
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Partial Clients & Projects
- Creekside Dam - Canyonville, OR
- Scoggins Dam - Washington County, OR
- Waikino Reservoir - Waimea, HI
- Kalihiwai Reservoir - Kauai, HI
- Lake Isabella Dam - Kern County, CA
- San Vicente Dam - San Diego, CA
- Folsom Dam Spillway - Folsom, CA
- Portugues Dam - Ponce, PR
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