



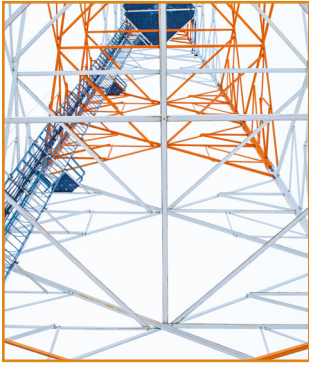
ENGINEERING INNOVATION

GLOBAL TECHNOLOGY SOLUTIONS AND SERVICES FOR
INFRASTRUCTURE ASSESSMENT AND MONITORING



Making the world's critical infrastructure
SAFER, STRONGER, and SMARTER.

OUR MISSION



FDH INFRASTRUCTURE SERVICES IS A GLOBAL TECHNOLOGY SOLUTIONS FIRM AND PIONEER IN ENGINEERING AND NONDESTRUCTIVE INVESTIGATION SERVING CRITICAL INFRASTRUCTURE MARKETS.



Our Values

FDH business practices reflect the highest ethical standards, placing a premium on the health and safety of our employees, clients, and partners, and the communities where we work and live.



WHERE WE LEAD

- » FDH Infrastructure Services, LLC (FDH) is a global leader in the engineering investigation of structures and foundations and the development of technology solutions that assess and monitor the condition of critical infrastructure.
- » FDH is commercializing groundbreaking research that leverages artificial intelligence to deliver innovative solutions and advance the state-of-the-art in the industry. With proven technology and solutions that tackle the challenges of condition assessment and continuous monitoring in novel ways, this integrated approach helps critical infrastructure owners and operators mitigate risk, reduce costs, and ultimately extend the life of their assets.
- » Through its broadcast division Stainless®, the company is a leading provider of structural engineering and installation services to the broadcast tower industry.

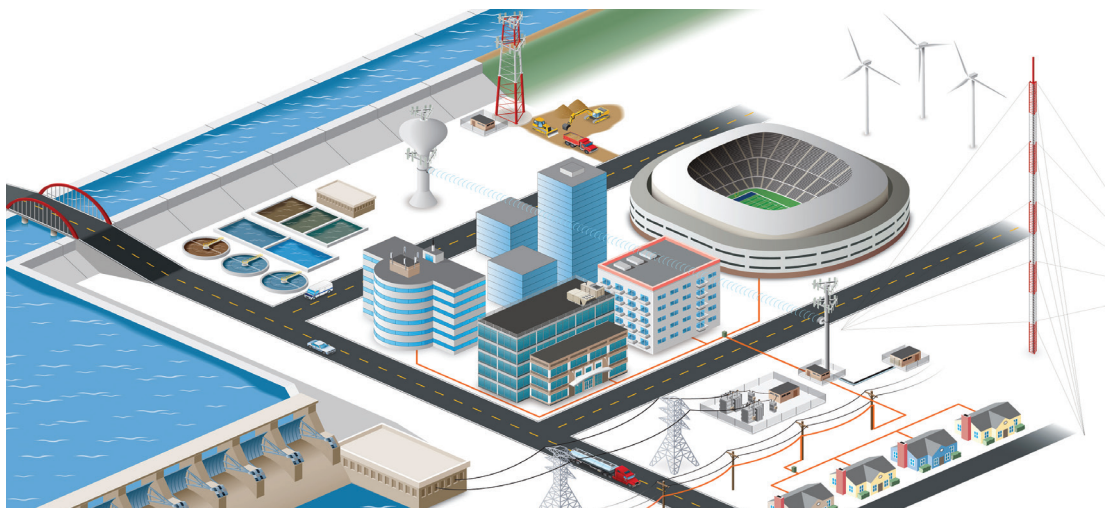
WHERE WE WORK



FDH Infrastructure Services, LLC, is a registered professional organization headquartered in Raleigh, NC. We work globally, with offices in seven states and London (UK). Our staff professionals hold licensure in 49 U.S. states and some U.S. territories.

- » Florida
- » Illinois
- » North Carolina (HQ)
- » Wyoming
- » Texas
- » London (UK)

MARKETS WE SERVE



- Government (Heavy Civil Structures)
- Broadcast (Towers)
- Power (Wind, Transmission & Distribution)
- Transportation (Roads, Bridges, Tunnels)
- Telecommunications (Wireless, Towers)
- Water (Dams, Levees)

OUR CORE CAPABILITIES

Engineering FDH engineering professionals are licensed throughout the U.S. and several of its territories. Drawing on decades of real-world experience in every conceivable terrain, FDH's engineering team specializes in quality design, research, and field investigative services that adhere to governmental codes and industry standards.

- » Civil Engineering
 - › AE Services
 - › Bridge Scour and Environmental Analysis
 - › Site Remediation and New Site Development
 - › Temporary Access Matting
 - › Utility Coordination
- » Geotechnical Engineering
 - › Lab Analysis
 - › Nationwide Driller Network
 - › Geotechnical Reports
- » Structural Engineering
 - › Structural Analysis and Design
 - › Foundation Analysis and Design
 - › Modification Design
 - › Tower / Mount Analysis and Design
 - › Access Load Reviews
 - › Expert Witness Testimony
- » Field Investigations and Inspections
 - › Foundation, Structure, and Mount Mapping
 - › Line and Antenna Mapping

Technology Solutions Combining expertise in patented nondestructive testing (NDT) methods and advanced machine learning, FDH's PhD-level research and product engineering professionals are developing novel technology solutions to assess, monitor, and derive insights from the condition of critical infrastructure. These solutions can reduce programmatic maintenance costs, enhance safety, and extend asset life.

- » **Foundations iQ™** – a proprietary tool that puts FDH expertise with nondestructive probing technology into the hands of owners and service providers, enabling determination of foundation type, dimensions, and concrete strength and quality, without disturbing the structure or interrupting operations.
- » **Bolts iQ™** – a faster, more accurate, and safer method for measuring tension in bolted joints.
- » **Matting iQ™** – a matting calculator that uses site conditions, mat properties, and engineering methodology to estimate the performance of mats in temporary construction applications, particularly for eco-sensitive conditions, such as soft soils and wetlands.
- » **Smart Tower™** – a structural health monitoring system designed to support telecom towers, (and in future, transmission, wind turbine towers, etc.), in both short-term diagnostic applications and for continuous monitoring over the life of the structures.

Nondestructive (NDT) Investigations Having performed 25,000+ investigations of structures and foundations over more than two decades, FDH's NDT experts are uniquely qualified to conduct condition assessments of critical structures as well as to design and implement engineering solutions for the most challenging site conditions.

- » Concrete Material Property Analysis
- » Crack and Failure Investigations
- » Embedded Rebar / Corrosion Identification
- » New Construction Quality Verification
- » Research and Development
- » Unknown Foundations / Foundation Mapping

Construction Services Technology-driven project controls and management systems to ensure FDH's construction services meet client objectives and adhere to safety requirements.

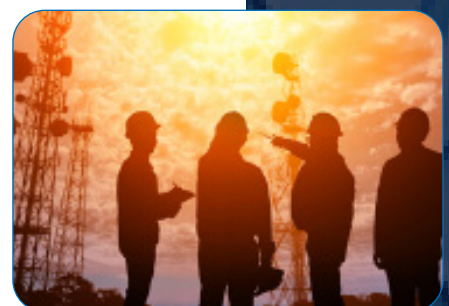
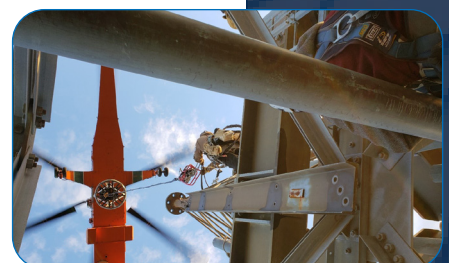
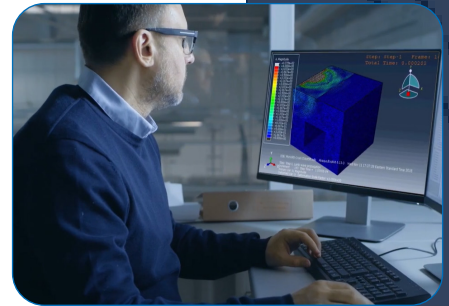
- » Construction
- » Construction Management
- » Emergency Restoration
- » Maintenance and Repair
- » Painting and Lead Abatement
- » Structural Modifications

Broadcast Division (Stainless) Through Stainless, FDH offers industry-leading engineering and construction services to the broadcast tower industry. Since 1947, Stainless has built more than 7,500 towers in 100 countries and installed over 50% of the tall towers in the United States.

- » Maintains extensive archive of tower information (>50% of U.S. tall towers)
- » Offers fabrication services through a network of highly qualified vendors
- » Ensures proper installation, compliance, and safety through construction / RF specialists
- » Provides expert technical services, from tower / antenna inspections to emergency repair

Data Analysis and Machine Learning FDH experts analyze a combination of historical, construction, and site inspection data to assess structures in their current and future states.

- » Finite Element Modeling
- » Digital Twins
- » Probabilistic Analysis of Future State
- » Quantitative Information on Structural Performance
- » Deterioration Modeling



FDH PROFESSIONAL MEMBERSHIPS

- » American Clean Power (ACP)
- » American Concrete Institute (ACI)
- » American Public Works Association (APWA)
- » American Society for Nondestructive Testing (ASNT)
- » American Society of Civil Engineers (ASCE)
- » Association for Materials Protection & Performance (AMPP)
- » Canadian Renewables Association (CanREA)
- » Deep Foundations Institute (DFI)
- » Institute of Electrical and Electronic Engineers (IEEE)
- » International Right of Way Association (IRWA)
- » International Society for Structural Health Monitoring of Intelligent Infrastructure (ISSHMII)
- » National Association of Broadcasters (NAB)
- » National Association of Tower Erectors (NATE): The Communications Infrastructure Contractors Association
 - » NATE STAR Initiative Member (Safety, Training, Accountability, Reliability)
- » National Society of Professional Engineers (NSPE)
- » North American Matting Association (NAMA)
- » Society of American Military Engineers (SAME)
- » State Wireless Associations
- » Telecommunications Industry Association (TIA)
 - » Members and/or chairs of various committees, including TR-14
- » Texas Association of Broadcasters (TAB)
- » Women in Wireless Leadership Forum (WWLF)

NAICS CODES

- » 237130 Power and Communication Line and Related Structures Construction
- » 517919 All Other Telecommunications
- » 541330 Engineering Services
- » 541350 Building Inspection Services
- » 541690 Other Scientific and Technical Consulting Services
- » 541715 Research and Development in the Physical, Engineering, and Life Sciences

FDH Infrastructure Services, LLC, offers engineering services in all jurisdictions where it is duly authorized and licensed to perform such services. Engineering services may also be provided by FDH Engineering, PLLC, an affiliated company, in New York and North Carolina.

www.fdh-is.com

FDH Infrastructure Services, LLC
Registered in SAM.gov

For More Information

Chad Barham
Director, Client Services
FDH Infrastructure Services, LLC
sales@fdh-is.com
(919) 755-1012

Jon Marcusse
Director of Broadcast Services| Broadcast Division
Stainless
jon.marcusse@fdh-is.com
(972) 293-1200

