Leigh & O’Kane, LLC is a Structural Engineering firm with a wide scope of services and experience. The firm works both as a prime engineering consultant and as consultants to the best architects and engineers in the area.

We have been in business in Kansas City since 1986, and have sustained growth by providing excellent structural design and responding to the needs of our clients. Our structural experience has grown to include buildings, bridges, and infrastructure. We are certified as a Women Business Enterprise and as a Disadvantaged Business Enterprise through the Missouri Regional Certification Committee.

From wood structures to steel, masonry, and concrete, the firm has experience in all types of structures. We provide inspections for structural condition, and building and bridge design including renovations and repairs, and new construction.

Everything has changed since 1986: the design process, the codes, the structural analysis software, the drafting, the modeling, and the integration of both, the delivery method of documents and construction, and the speed of everything.

Everything has changed except the principles of good design:

- Safe structures
- Creative solutions
- Economical materials suited for the structure
- Thorough Construction Documents
- Good communication and service throughout the design and construction process.
Leigh & O’Kane, LLC provides structural engineering for bridge and infrastructure projects. The firm has worked as a structural consultant on many design-bid-build and design-build projects in Missouri.

We have teamed with other consultants for bridge projects for Kansas City Public Works since 1990, including the Biennial Bridge Inspections for fourteen cycles. Work with MoDOT has grown since 2010 beginning with the Safe and Sound design-build project. Leigh & O’Kane is a MoDOT certified DBE firm and pre-qualified for bridges.

Representative Bridge Design Projects:

- Woodswether Road Rehab, Kansas City, MO. Assisted in site inspection and plan preparation of bridge rehabs over BNSF and UP Railroads.
- MoDOT 44 Bridge Rehab, Kansas City, MO. Prepared rehab plans and estimated quantities for 9 bridges.
- North Brighton Avenue over Shoal Creek, Kansas City, MO. Superstructure for twin, 3-span precast concrete girder bridge.
- Missouri 291 E. Outer Road over Miller Creek, MoDOT project in Jackson County. New 3-span precast concrete girder bridge.
- Soccer Drive over I-435, Kansas City, MO. Evaluated structure and deck drainage to add two multi-use paths to existing bridge, by adding drains and new barrier.
Leigh & O’Kane, LLC is an established structural engineering consultant for building design in Kansas City. They have worked on all styles of buildings from the simple and functional to buildings featuring high architectural design. Projects include building rehabilitations, additions, and new construction. Following are some representative projects:

- **Aviation Department Office, Kansas City Missouri.** Two-story office has a wing-shaped floor plan for offices with precast concrete exterior. Another portion of the building has a conference room with a small garage below.

- **St. Joseph Transit Complex, St. Joseph, Missouri.** This facility includes a central field office space, fueling stations, and vehicular garages. The garage has multiple bays for vehicle storage and maintenance. Structural materials are steel and masonry walls.

- **Fire Station #19, Kansas City, Missouri.** Public Safety buildings have a special importance factor and are designed for durability and economy. This building includes space for a small office and administration, common spaces for staff and the community, and garage bays for vehicle storage and maintenance.

- **Field Maintenance Office at Kansas City International Airport, Kansas City, Missouri.** The maintenance facility has a primary vehicular function, but is supported by ancillary spaces such as administration office, conference room, break room, and locker rooms for staff, wash bays, paint booth, welding bay, and mezzanines. Tools and equipment.
Cheri J. Leigh, P.E.

Ms. Leigh has been a partner and project manager with Leigh & O’Kane since 1986. Her responsibilities include management and quality control of projects. She has experience with buildings and infrastructure projects of all types. Ms. Leigh has a B.S. in Civil Engineering from Southern Methodist University and a M.S. Engineering Management from University of Kansas.

Amanda R. Bush P.E.

Ms. Bush has been with Leigh & O’Kane since 2010 and a Principal since 2015. She has been the lead engineer on four Leigh & O’Kane subcontracts for MoDOT Design-Build projects. She has worked on other bridge inspections and infrastructure projects with Leigh & O’Kane including bridges for MoDOT and the city of Kansas City. Ms. Bush has a B.S. in Civil Engineering from Missouri University of Science and Technology.

Wayne N. Hess, P.E.

Mr. Hess has been an engineer with Leigh & O’Kane since 2005. He gained experience as an engineering technician for a consulting firm for six years while completing his B.S. in Civil Engineering at the University of Missouri—Kansas City. He has experience with private and public buildings and infrastructure design in steel, concrete, masonry, and wood.

Adam C. O’Kane, E.I.

Mr. O’Kane began his career at Leigh & O’Kane in 2000 and gained experience as an engineering technician while attending the University of Missouri—Kansas City for his B.S. in Civil Engineering. His responsibilities include structural design and coordination of drawings, specifications, and field inspections. He has experience with private and public projects including design in steel, concrete, masonry and wood. He has been a Principal since 2015.