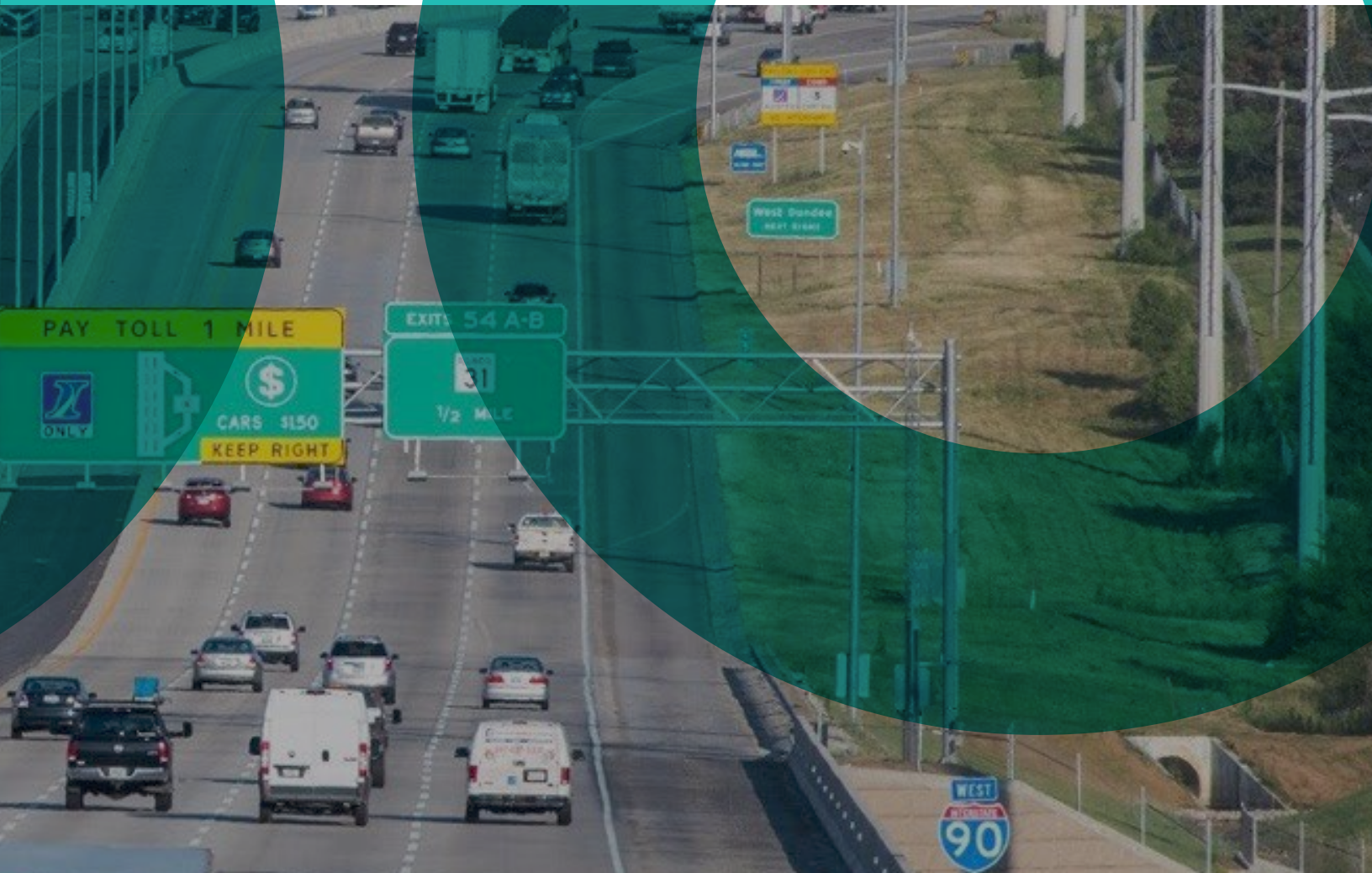




Transportation & Infrastructure Solutions

With expertise in planning, design, construction, and long-term support, Wood works with customers to tailor solutions to the unique needs of each customer, project, and budget



Delivering comprehensive solutions

Pressure on transportation systems worldwide is mounting due to aging infrastructure, population growth, increased passenger and freight volumes, and funding limitations. Today's challenge is to maintain the integrity and increase the capacity of our facilities to meet this demand – economically safely and within the tight schedules required.

Delivering our promises

Our customer-focused culture encourages employees to manage risk effectively and seek ways to enhance performance for customers in areas such as project acceleration and cost savings. As trusted partners to our customers, we work closely with them to deliver results that enhance communities and businesses, improve safety, respect the environment and save our customers money.

Transportation & engineering

- Environmental documentation NEPA (EA, EIS)
- Highway, roadway design
- Local, municipal public agency, grant applications: land planning, streetscape design
- Traffic engineering and traffic planning
- Pavement and culvert drainage
- Structure engineering: bridge design and inspections, load rating, retaining walls, misc. structures
- SWPP, erosion control compliance inspections
- Construction inspection, monitoring and management
- Value engineering

Geosciences & remediation

- Phase I and II ESAs
- Soil & groundwater remediation
- Asbestos surveys
- Hazard assessments
- Demolition planning
- Program management
- Project management

Water & general civil engineering

- Wastewater planning & design
- Stormwater planning & design
- Potable water planning & design
- Traffic planning & engineering
- Signal design & optimization
- General civil engineering

Environmental planning & natural resources

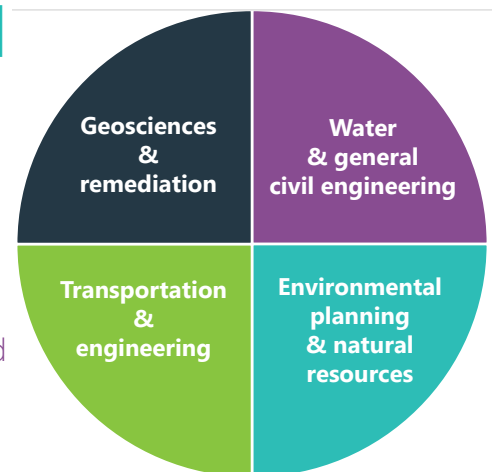
- NEPA (EA, EIS)
- Linea corridor environmental studies (roadways, pipelines, transmission lines)
- Clean Water Act permitting (Section 404, 401 Certification)
- NPDES permitting support (Section 316 a and b)
- Wetland delineation, mitigation
- Threatened and endangered species
- Ecology lab, boats, field equipment
- SWPPP, erosion control compliance inspections
- GIS

Greater St. Louis area presence since 1975

- professional engineers
- professional land surveyors
- certified floodplain managers
- environmental scientists
- planners
- designers
- technicians

75

local personnel maintaining full-time, fully staffed offices in St. Louis, and Jefferson City, Missouri, and Collinsville, Illinois



The St. Louis office provides comprehensive civil engineering, water resources, transportation, structural, and environmental services to public and private sector clients throughout the Midwest.

Civil engineering/transportation experience includes roadway and structure design and inspection, feasibility/location studies with National Environmental Policy Act (NEPA) documentation, trail planning and design, value engineering, and utility management services.

Civil engineering/infrastructure expertise includes water resources, stormwater management, watershed master planning, flood/risk mapping, levee certification, stormwater collection/conveyance systems, streambank stabilization, sanitary relief sewers, storm/sanitary pump stations, combined sewer overflow control, sanitary sewer overflow elimination, and wet weather sanitary storage facilities.

Wood's engineers, planners, scientists, and technicians have completed successful projects for more than 30 state departments of transportation and hundreds of county and municipal agencies nationwide, as well as the Federal Highway Administration, and the U.S. Corps of Engineers, for example.

Delivering our promises

Transportation planning & engineering

Wood's expertise has been put into practice on a wide range of urban, suburban, rural, and industrial roadway projects throughout the Midwest and North America. Services we offer our clients include civil site planning and design; preliminary and final roadway and bridge design; geotechnical engineering; drainage and stormwater design; traffic engineering and safety studies; construction materials testing; and construction management.

Water & wastewater

Wood has a national reputation for providing high-quality, cost-effective, and timely open-end contract and programmatic water, wastewater, and stormwater infrastructure services to a wide variety of public entities (including St. Louis). These long-term relationships allow us to clearly understand the challenges large utilities face in providing their customers reliable and affordable services. Among many others, services have included:

- Wastewater interceptor study and design
- Large diameter water transmission main assessment and design
- Pump station evaluation and design
- Reservoir assessment, rehabilitation, and design
- Water treatment plant evaluation and design
- Water and wastewater process troubleshooting and operations
- Dam assessment and design
- Wet weather programming
- Green Infrastructure planning, design, and implementation
- Watershed based CSO studies

Bridge & structural engineering

Wood helps state, regional and municipal governments as well as private industry clients evaluate, improve, replace, and build new bridges, culverts and retaining structures. Our experience includes short-, medium- and long-span water and grade separations for most functional categories. We are able to provide proven expertise to our clients in virtually every facet of structural inspection, planning, engineering, and construction management that brings creative solutions to complex challenges.

Value engineering

Wood has successfully provided value engineering services since 1976. **Since then, Wood has conducted more than 880 value studies on projects exceeding \$22.5 billion in construction costs for clients.** -Through the process of a VE study, Wood reviews selected projects and recommends alternative ideas that add value by improving project quality, reducing project costs, fostering innovation, eliminating unnecessary and costly design elements, and ensuring efficient investments.

Geosciences | Remediation

Wood offers a full range of geotechnical engineering and geological/geophysical field services. Our engineers and earth scientists are established specialists in soils engineering, hydrology, geology, geophysics, seismology and rock mechanics. Through our proven exploratory techniques, we determine the behavior of soil, rock and water as they are affected by natural phenomena and construction activities. Our professionals develop strategic plans from site assessment and investigation through the final stages of remedial design and implementation. We have negotiated favorable settlements for clients in all EPA regions and have worked with regulators in nearly every regional organization.

Cultural resources

Wood has provided cultural resources services from our Jefferson City office since 2002, successfully completing surveys and inventories of historic and prehistoric sites ranging from small one-acre parcels to large-scale projects in excess of 1,800 acres. Our services include well-qualified professionals, deep bench strength for field deployments and a wide breadth of in-house analytical services. We work closely with our clients and the Missouri SHPO, US Army Corps of Engineers, and other regulatory agencies, providing an integrated approach that helps clients plan the project to avoid or mitigate potential cultural resource impacts.

Environmental planning | NEPA & permitting

Wood offers our clients a full range of planning and permitting services. Our professionals have a thorough understanding of NEPA/CEQA and FHWA guidelines for transportation projects, and have successfully completed environmental documents in Missouri, Illinois and throughout the Midwest. We provide proven expertise in formulating Purpose and Need statements, developing and evaluating defensible alternatives, preparing NEPA-level reports, and coordinating public involvement and agency coordination programs. Our team understands the importance of streamlining the NEPA permitting process with appropriate avoidance, minimization and mitigation measures.

Natural resources

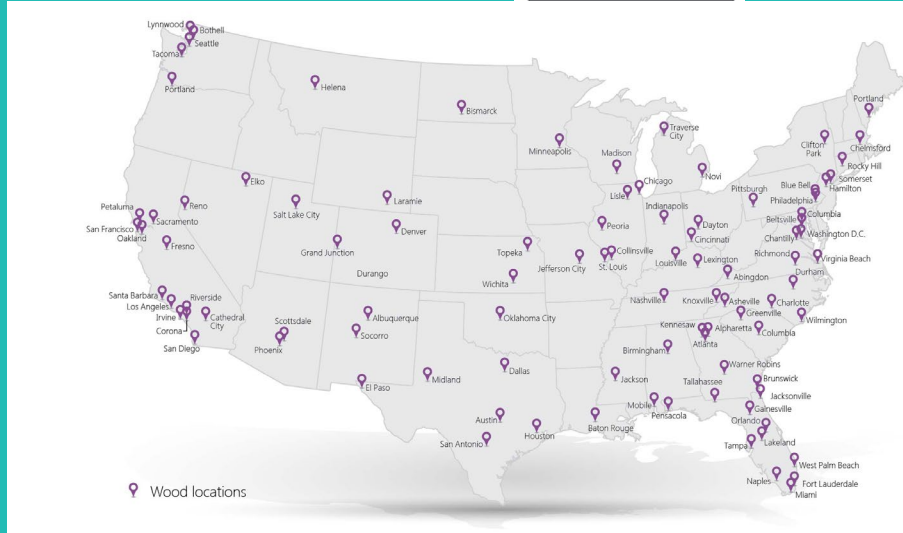
Wood has been involved in natural resources consulting services in the Midwest for more than 35 years. Our experience includes fisheries and wildlife studies, habitat assessments and threatened/endangered species surveys, wetland delineation, permitting and mitigation, and ecosystem restoration. Wood maintains a full complement of biological sampling equipment for field sampling and data collection efforts. Our St. Louis laboratory is fully equipped to perform identification, analysis and processing of aquatic and terrestrial species. Other ecological support services include technical writing and editing, QA/QC program management, biological reference collections, and health and safety program oversight.

Recent projects completed for:

- Federal, state, provincial, and municipal governments
- Airports and aviation agencies
- Freight railroads and public transit agencies
- Port, harbor, and marine authorities
- PPP, design-build, and ADM customers
- Toll highway authorities
- Mineral exploration
- Private industry



Wood was named the #1 Top International Design Firm in the Engineering News-Record's 2019 ranking of the world's 225 leading engineering and construction companies



over
3,600
employees

96
offices

I-90 (James Addams Memorial Tollway) east corridor rebuilding, widening: **First tollway in Illinois to include flex lanes with transit options**

Wood provided design, corridor construction management, and construction management of phased improvements to 25 miles of this heavily traveled section of one of Illinois' busiest interstate highways

Ryan Thomas
Senior Project Manager
D: 636-200-5146
M: 314-406-4059
ryan.thomas@woodplc.com

woodplc.com

