



**Missouri's
Local
Program**
for community
development

COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

**Firm's Full Legal
Name:**

Engineering Surveys and Services LLC

Firm Contact Name: Josh Lehmen, PE

**Contact Email
Address:**

jlehmen @ess-inc.com

**Firm's Mailing
Address:**

1113 Fay Street

Columbia, MO 65201

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**



Engineering Surveys & Services

DELIVERING YOUR VISION™

COLUMBIA | JEFFERSON CITY | SEDALIA



December 12, 2025

Ms. Ashley Buechter, PE | Local Program Administrator
Missouri Department of Transportation
105 West Capitol Avenue
Jefferson City, MO 65102

RE: MISSOURI'S LOCAL PROGRAM
On-Call Professional Services Prequalification | 2026-2029
Work Category: CONSTRUCTION INSPECTION

Dear Ms. Buechter & Selection Committee,

As a professional services firm that has served mid-Missouri clients since our founding, *Engineering Surveys & Services* (ES&S) is excited about the chance to serve in an "on-call" capacity for a variety of construction inspection services for participants of Missouri's Local Program for community infrastructure development. ES&S is proud of the quality assurance and construction-support services we have offered to mid-Missouri clients for decades, and believe our experience, local knowledge of the region, and work ethic make us a valuable partner to deliver transportation infrastructure and facility projects.

In the *Letter of Interest* that follows, we provide information about our firm's accessibility and responsiveness, key personnel that will lead task activities for assigned projects, and examples of relevant projects with municipal clients, MoDOT, and other public agencies. The enclosed *Company Brochure* provides a list of additional project experience in support of our capabilities and capacity to serve. Finally, we wish to confirm that ES&S is listed on the Approved Consultant Prequalification List. We are hopeful that in your review of our LOI, you will agree that ES&S is uniquely located, capable and committed to help successfully deliver projects assigned by central Missouri agencies participating in Missouri's Local Program.

Best regards,

John R. Frerking, PE | Client Manager, MoDOT

Joshua D. Lehmen, PE
Manager, Geotechnical & Construction-Support Services

General Profile & Experience of Firm

Since its founding in 1954, ES&S has been delivering solutions to support the built environment of mid-Missouri. Over the decades, the firm has added to the services it provides to clients in the public sector and private industry. Today, ES&S offers planning and design services to support mid-Missouri civil infrastructure in the transportation and water industries; site preparation for vertical construction; full-service land surveying, construction observation services; and laboratory facilities to perform a comprehensive list of analytical and construction material testing required for most public infrastructure and building projects. ES&S is registered as a *Professional Engineering Corporation* (Certif./Lic. No. 2004005018) and *Professional Land Surveying Corporation* (Certif./Lic. No. 2004004672) with the State of Missouri.

Accessibility

ES&S has three mid-Missouri offices (Columbia, Sedalia, Jefferson City) to offer prompt, personal service to clients in the region. We offer land surveying, geotechnical investigations, civil engineering planning & design, landscape architecture, materials testing & construction observation services, and maintain materials labs in each of our three office locations and a mobile lab. Our staff has amassed extensive knowledge of the region's surveying records and geotechnical conditions. ES&S enjoys strong working relationships with regulatory agencies and utility providers, helping us to deliver efficient and cost-effective design for our clients. The combination of services available in each office and accumulated knowledge of the region allows for effective, hands-on project management and enhances control over project deadlines and budget.



COLUMBIA
1113 Fay Street



JEFFERSON CITY
802 El Dorado Drive



SEDALIA
1775 West Main Street

WORK CATEGORY: CONSTRUCTION INSPECTION

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Qualifications of Personnel

ES&S' *Geotechnical & Construction-Support Services* practice is managed by **Josh Lehmen, PE**, who has maintained an oversight role over the firm's materials lab services since 2013, after being heavily involved with the efforts in 2012 to renew validation of the Columbia laboratory by the *Materials Testing Center - Concrete and Materials Branch*, of the *USACE's Engineer Research and Development Center* in Vicksburg, MI. He was an intern with MoDOT's Central Materials Lab during college and since joining ES&S, has participated in quality control & assurance services on a wide variety of projects involving infrastructure and facilities for MoDOT, municipal, and institutional agencies.

Assisting Josh is **Cullen Even, PE**. Cullen began his tenure at ES&S in 2011 as a Field/Lab Technician. Prior to joining ES&S, he worked for five years in the municipal, commercial, and institutional markets, with involvement in civil-site design, construction quality control, and heavy highway construction. Cullen gained extensive experience performing lab and field testing for construction materials, and construction observations for public and private projects. During his tenure with ES&S, Cullen returned to school to pursue a degree in civil engineering, and graduated with his bachelor of science in 2015, and now works as a full-time civil engineer, with an emphasis on materials testing and geotechnical services.

Another key staff member in our geotechnical practice is **Randy Lee, PE, RG**. Randy is a licensed professional engineer and registered geologist, with nearly 30 years at ES&S working on mid-Missouri projects. Randy's primary focus for ES&S is geotechnical investigation and engineering recommendations for projects completed by the firm or by ES&S's design partners. He also is very involved with construction observation of deep fills, shallow foundations, installation of piles, micropiles, piers and sheeting, and steel placement for reinforced concrete. Randy has provided observation of critical construction activities for major facility and infrastructure projects for the University of Missouri, Columbia College, City of Columbia, numerous mid-Missouri K-12 school districts, and numerous other commercial & industrial clients.

Familiarity / Capability

Josh Lehmen, PE

Manager, Geotechnical & Construction-Support Services



- **Randy Lee, PE, RG** - Geotechnical Engr.
- **Cullen Even, PE** - Materials/Geotechnical Engr.
- **Joe Rolsing, CWI** - Special/Weld Inspections
- **Colin Smialek** - Materials Laboratory Mgr.
- *Approx. one dozen FTE Lab/Field Technicians*
- **Mikaela Alley** - Analytical Laboratory Mgr.

ES&S has provided construction materials testing & inspection services on an "as-needed" basis for a number of public agencies, including the cities of Columbia, Ashland, Sedalia, Warrensburg, Columbia Public Schools, MoDOT, University of Missouri-Columbia, UM-System, and University of Central Missouri. A wide range of

materials testing services are conducted by ES&S lab technicians at the firm's three materials laboratories, and various construction observations and special inspections are conducted by firm engineers and field technicians. These are listed in the enclosed *Company Brochure*.

To support our surveying, materials testing and construction observation practices, ES&S maintains fleet trucks and equipment distributed among the firm's three offices/materials labs. The firm also enjoys strong staff retention of both design professionals and field technicians, resulting in our personnel having learned to work together in a very coordinated and efficient manner. Our technicians and professional staff are required to take OSHA's 10-hour construction industry training and several of our clients have additional safety training required for work onsite (for example, Ameren UE's *Callaway Energy Center*). In addition, we have periodic internal training briefings dealing with topics such as protective equipment requirements, proper lifting techniques, seasonal weather and wildlife exposure risks, etc. Staff responsible for operating or maintaining the nuclear density gauges are required to take NRC-approved radiation safety training and our analytical lab has staff that maintain HAZWOPER certification. Laboratory practice demands strict adherence to ASTM procedures and other governing specifications when required by specific project needs. The firm takes care to provide a uniform approach to the work done in the testing laboratory to deliver the consistency of results demanded by our clients and the safety of the end-users of projects for which we provide QA/QC services.

In fact, this is one reason that the firm's technicians are full-time staff members, not seasonal employees or working on an "on-call" basis when work needs arise. This approach allows ES&S to maintain consistently trained, high-quality surveying and field technicians that respond

WORK CATEGORY: CONSTRUCTION INSPECTION

Missouri's Local Program | On-Call Professional Services Prequalification



efficiently to our clients' needs and understand their role and duties once arriving on a jobsite. We cross-train technicians across our primary practices (survey, geotechnical, materials testing) to provide production capacity and flexibility. We believe that this integrated approach allows ES&S to offer superior value in project delivery to our clients.

ES&S maintains MoDOT-certified technicians for responsive construction observation and materials testing services on state and local transportation projects (see below). Our support staff is familiar with MoDOT's *Local Public Agency* (LPA) guidelines and expectations related to the *Quality Management* initiative and offer construction observation administration and oversight to meet FHWA and MoDOT requirements.

These same services are applicable for all manner of public-sector infrastructure and vertical construction projects. ES&S believes critical construction activities and field observations requiring added engineering judgment should be overseen by licensed professionals and have registered engineers available for observation of mass excavation, structural backfill, foundations of many types, and can provide a certified weld inspector for inspection and non-destructive testing of structural steel connections.

Past Performance

The matrix below provides a list of recent projects and typical services provided by ES&S to support construction of roadway, sidewalk, trails, and other relevant infrastructure that is commonly undertaken by MoDOT and LPAs in Missouri.

CONSTRUCTION-SUPPORT SERVICES: MATERIALS TESTING & INSPECTION EXPERIENCE

PROJECT NAME	CLIENT / OWNER	LOCATION	Year Complete	CONSTRUCTION-PHASE SERVICES & MATERIALS TESTING													COMMENTS	
				Earthwork Observation & Testing	Foundation / Subbase Observation & Testing	Compaction Testing (Soil & Aggregate)	Asphalt Compaction Testing and Coring	Concrete Mix Design (Asphalt / PCO)	Concrete Testing	Moisture / Non Testing	Post-Tensioned Concrete Loading & Tendon Placement	Reinforcing Steel Placement Documentation	Structural Steel Connection Inspection	Structural Steel Weld Testing	Floor Placement Observ. / Moisture Test	Fileproofing Observation & Documentation		Constr. Observ. / Quality Mgmt. (Full- or Part-Time)
Site Preparation for ISFSI Facility @ CEC	Ameren UE	Reform, MO	2015															High-density concrete mix design to meet NRC standards
South Katy RR Bridge Trailhead Improv. - Phase 1	City of Boonville, Missouri	Boonville, MO	2015															Recreational Trail Program (RTP) funding / coord. [RTP 2014-08]
PWD: Aurora Drive & Nova Way Connectors & RABs	City of Columbia, Missouri	Columbia, MO	2021															direct for City of Columbia
PWD: Nifong Blvd Improvements, Providence to Willowcreek	City of Columbia, Missouri	Columbia, MO	2021															direct for City of Columbia
COU: Columbia Regional Airport Construction-Support Services	City of Columbia, Missouri	Columbia, MO	varied															sub to Burns & McDonnell, prime consultant for City's 5-year On-Call Engr Svcs MSA
COU: Runway Extension / Reloc of MO Route H	City of Columbia, Missouri	Columbia, MO	2020															sub to Burns & McDonnell, prime consultant for City's 5-year On-Call Engr Svcs MSA
COU: Runway Extension / Reloc of Rangeline Road	City of Columbia, Missouri	Columbia, MO	2016															sub to Burns & McDonnell; provided QM services on an as-needed basis
PWD: Forum Blvd Trail & Pedestrian Bridge over Hinkson	City of Columbia, Missouri	Columbia, MO	2016															QA testing provided under on-call testing services master agreement
P&R: Horny Creek Trail	City of Columbia, Missouri	Columbia, MO	2014															QA testing provided under on-call testing services master agreement
COU: Taxiway A Reconstr	City of Columbia, Missouri	Columbia, MO	2012															sub to BMC; utilized drainable, coarse aggregate and cement base mat under pmvt
CWL: COLT RR Bridge over US Route 63	City of Columbia, Missouri	Columbia, MO	2010															Full-time resident inspection services (quality manager); drilled micropile foundations;
PWD: Maguire Blvd. Extension & Bridges over Grindstone Creek	City of Columbia, Missouri	Columbia, MO	2010															ES&S work as sub to Affinis Corp & directly for City, incl Chg Order Negot support
Water Street Pavement Stabilization	City of Jefferson, Missouri	Jefferson City, MO	2011															Geotechnical investigation; constr observation; geo-grid installation
Main Street Accessibility Improvements, Phase I	City of Monroe City	Monroe City, MO	2020															ADA-compliance; TAP-funded; MoDOT coord.
Downtown Streetscape, Phases I & II	City of Sedalia, Missouri	Sedalia, MO	Ph I - 2009 Ph II - 2010															direct for City of Sedalia
Constr. Engr. Inspection (CEI) Svcs 2018 Water Project - Phase 1	City of Sedalia, Missouri	Sedalia, MO	2020															Daily field diary; wage rate interv.; mat'l's docum; pay applic. review; progress mtgs.
Downtown Streetscape, Phase IIIa - Downtown Gateway	City of Sedalia, Missouri	Sedalia, MO	2015															direct for City of Sedalia
Lions Lake Improvements	City of Warrensburg	Warrensburg, MO	2026															lake excavation & stockpile assessments; direct for City of Warrensburg;
Bus Barn / Transportation Facility Upgrades	Columbia Public Schools	Columbia, MO	2014															direct for CPS
Business Loop 70/Conley Road Extension	Conley Road TDD	Columbia, MO	2018															direct for Conley Rd. TDD
I-70 Concrete Panel & Patch Maintenance On-Call	MoDOT - Central District	Various Counties	varied															maturity meter; night work; subconsult to Lamke Constr., S&A, Geromini, others
I-70 and US Route 63 Intersection Improvements	MoDOT - Central District	Boone County	2027															subconsult to Millstone Weber Constr; night work
I-70 Bridge over Missouri River @ Rocheport	MoDOT - Central District	Boone Cooper Counties	2025															subconsult to Lunda Construction;
MO Route Z Improvements	MoDOT - Central District	Boone County, MO	2013															sub to Dan Scheiders Excav; plan prep. & QA testing to implement contractor's QM plan
MoDOT Maintenance Facility Relocation	MoDOT - Central District	Columbia, MO	2007															
US Route 50 J-Turns (J3P3181) US Route 131 (J3S3083)	MoDOT - KC District	Saline Johnson & Lafayette Cos.	2022															subconsult to Radmacher Excavating;
South Providence Medical Park Paved Trail	University of Missouri	Columbia, MO	2016															direct for University & as sub to SOA;



ENGINEERING & PROFESSIONAL SERVICES

FIRM EXPERIENCE

CONSTRUCTION MATERIALS TESTING
& INSPECTION SERVICES

SUBMITTED TO:

Missouri Department of
Transportation



SUBMITTED BY:

ENGINEERING SURVEYS & SERVICES



ES&S is a trusted multidisciplinary firm serving clients since 1954, offering civil, geotechnical, and environmental engineering, surveying, materials testing, and landscape architecture. With three offices across Missouri and project experience throughout the U.S., we deliver site-responsive, constructible solutions tailored to municipal, community, hospitality, utility design, and commercial developments—bringing client visions to life through a collaborative and market-driven approach.

Our three locations allow efficient and effective response to your needs for design, design-support, and construction-support services. We have an onsite materials labs in our three locations with a USACE- validated construction material testing labs in Columbia as well as a mobile testing lab.

Key Personnel & Team Capacity

Engineering Surveys & Services (ES&S) organizes its services within four core practice areas, led by the following individuals to provide planning and design of civil infrastructure and site development. From concept through construction they are available to help facilitate projects.

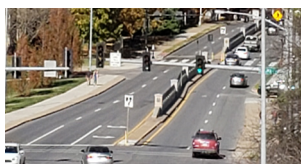


- Ben Ross, PE, PTOE – Vice President, Civil Engineering. Ben will serve as Principal-in-Charge and primary contact. He has over 30 years of experience leading roadway, traffic, and municipal infrastructure projects across Missouri, including corridor improvements, safety enhancements, and multimodal accessibility upgrades.
- Fred Carroz, PLS – Vice President, Land Surveying. Fred leads survey operations including boundary, topographic, and right-of-way acquisition mapping. In addition to traditional survey methods, Fred’s team utilizes UAS and 3D scanning technologies to expedite data collection and improve accuracy.
- Josh Lehmen, PE – Vice President, Geotechnical & Construction Support. Josh oversees laboratory services, subsurface investigations, and construction materials testing. He manages MoDOT-certified technicians and a USACE-validated testing lab.
- Chadd Fuemmeler, MLA, PLA – Landscape Architecture Lead. Chadd leads ES&S’s landscape architecture services, integrating site design, planting, and open-space planning with civil engineering to create context-sensitive, sustainable, and community-focused solutions. His experience includes municipal streetscapes, park and trail systems, and commercial development projects throughout Missouri and beyond.

Supporting these leaders is a staff of sixty engineers, landscape designers, surveyors, field technicians, design drafting and inspectors—one of the strongest and most stable engineering and technicians design/construction support practices in mid-Missouri. Our proximity allows us to mobilize quickly and maintain strong coordination with City staff, contractors, and stakeholders as we work to integrate our services through the life of a project.

To discuss strategic partnering with ES&S, contact:
John Frerking, PE
PH-W: (573) 449-2646 x241
EML: jfrerking@ess-inc.com

ess-inc.com



Columbia
1113 Fay Street
Columbia, MO 65201
(573)449-2646

Jefferson City
802 El Dorado Drive
Jefferson City, MO 65101
(573)636-3303

Sedalia
1775 Main Street
Sedalia, MO 65301
(660)826-8618



Construction-Support | Materials & Analytical Laboratory Services

ES&S technicians are full-time employees, allowing us to maintain consistently-trained, high-quality staff to respond efficiently to our clients' QA/QC testing needs. ES&S' Columbia materials laboratory and mobile materials lab are validated by the U.S. Army Corps of Engineers for numerous soils, concrete, mortar and aggregate test procedures. The firm also has certified technicians available for MoDOT projects and for a variety of special inspections required by the International Building Code (IBC), Chapter 17. Our support staff is familiar with MoDOT's Local Public Agency (LPA) guidelines and offer construction observation administration and oversight to meet FHWA and MoDOT requirements. These same services are applicable for all manner of public-sector infrastructure and vertical construction projects. ES&S maintains MoDOT-certified technicians for responsive construction observation and materials testing services on state and local transportation projects.

ES&S believes critical construction activities and field observations requiring added engineering judgment should be overseen by licensed professionals and have registered engineers available for observation of mass excavation, structural backfill, foundations of many types, and can provide a certified weld inspector for inspection and non-destructive testing of structural steel connections. Below is a list of common services provided by ES&S technicians and professional staff.

Materials Testing & Quality Assurance/ Control

- Earthwork Observation & Testing
- Concrete, Grout & Mortar Testing/Mix Design Consulting
- Pavement & Subgrade Condition Assessment
- Reinforcing Steel Placement/Post-Tensioned Concrete Tendon Placement & Loading Documentation
- Foundation Construction Observation & Documentation (Shallow Foundation, Drilled Shafts, Rammed Aggregate Piers, Driven & Auger Cast Piles, Micropiles)
- Non-Destructive Testing
- Certified Welding Inspector for Structural Steel Connections
- Floor Flatness/Levelness Observation
- Fireproofing Adhesion, Cohesion, Applied Density, & Intumescent Paint



Construction Engineering / Quality Management

- Maintenance of the Construction Diary
- Quality Assurance/Quality Control Testing
- Progress Report Preparation
- Wage Rate Interviews/Assist with EEO Compliance
- Document Quantities of Work-In-Place for Pay Estimates
- Change Order Documentation
- Perform Semi-Final Observation/Coordinate Final Observation
- Submit Final Observation Report & Applicable Final Documentation



Analytical Laboratory

- Ground Water, Surface Water, Landfill Gas Monitoring & Analyses
- Water, Waste Water, & Sludge Sampling & Analyses (autosampler available for composite samples)
- Storm Water Quality Sampling & Analyses
- Industrial Pretreatment/Process Monitoring & Analyses
- Facilitation of WET Testing, RBCA Testing, etc.
- NPDES Permit Consulting
- Soil Permeability/Contamination Monitoring & Analyses

