



105 West Capitol Avenue
P.O. Box 270
Jefferson City, Missouri 65102

Missouri Department of Transportation
Patrick K. McKenna, Director

1.888.ASK MODOT (275.6636)

April 23, 2024

Dear Consultant:

The Missouri Highways and Transportation Commission is requesting the services of a consulting engineering firm to perform the described professional services for the project included on the attached list.

If your firm would like to be considered for these consulting services, you may express your interest by responding to the appropriate office, which is indicated on the attachments. Limit your letter of interest to no more than **three** pages. This letter should include a statement to indicate your firm's understanding of the project. It should also include any other information which might help us in the selection process, including key personnel you would assign to the project and the backgrounds of those individuals, and any sub-consultants you would propose to use, and an indication of your firm's approach to promoting and developing a diverse workforce. MoDOT is committed to reflecting the diversity of the communities we serve and we expect our partners to do the same. We will utilize the consultant information already on file so we will not need a lengthy submittal of other general company information. In addition, please attach **one** page with detailed information on similar projects that your key personnel have worked on. Indicate the role your key personnel played in the projects and include reference contact information.

DBE firms must be certified by the Missouri Department of Transportation in order to be counted as participation towards an established DBE Goal. We encourage DBE firms to submit letters of interest as prime consultants for any projects they feel can be managed by their firm. We also encourage both DBE firms and non-DBE firms to consider joining MoDOT's Mentor/Protégé program whenever possible as part of a MoDOT project.

MoDOT will evaluate firms based on: Project Understanding & Innovation, Past Performance, Qualifications of Personnel Assigned, General Experience of Firm, Familiarity/Capability, Accessibility of Firm & Staff. Firm's not providing a response on approach to workforce diversity will be considered non-responsive to this solicitation. Firm's that are not current on all of the required prequalification categories found in [MoDOT's Approved Consultant Prequalification List](#) at the date of the solicitation expiration will be considered non-responsive.

We request all letters be received by 3:00 pm, **May 7, 2024** at the appropriate office.

Sincerely,

DocuSigned by:

D6B5C4961F0D41E...
Kenny Voss, P.E.
State Design Engineer

Attachment

Our mission is to provide a world-class transportation system that is safe, innovative, reliable and dedicated to a prosperous Missouri.

www.modot.org

DISTRICT OFFICES

Tom Blair
District Engineer
Missouri Department of Transportation
1590 Woodlake Drive
Chesterfield, MO 63017

Contact
Leah White
314-624-7448
Leah.White@modot.mo.gov
Email responses are encouraged.

District SL

Various Counties, Various Routes	
Job No:	J6Q2025H, J6Q2026H, SL0096H
Location:	St. Louis Transportation Management Center
Proposed Improvement:	N/A
Length:	N/A
Approximate Construction Cost:	\$1,650,000
DBE Goal (if applicable)	0%
Consultant Services Required:	This project will provide independent support, modification, expansion, and maintenance of the Gateway Guide (GWG) Network. The Offeror will be responsible for all network maintenance activities and documentation management.
Other Comments:	<p>The following is an overview of the major responsibilities to manage the GWG Network:</p> <ol style="list-style-type: none"> 1. Daily Network Support: <ol style="list-style-type: none"> a. Support predetermined network tasks. b. Support emergency or critical maintenance efforts. c. Work with partners, clients, and vendors on network interconnection projects. d. Deliver training if requested. e. Take direction from MoDOT's designated network manager. 2. Configure, manage, maintain, troubleshoot: <ol style="list-style-type: none"> a. Layer 1 through layer 3 network devices b. Video stream transport and distribution hardware and software c. SolarWinds Orion network management platform or a similar Network Monitoring System software package as deployed by MODOT. d. Network security procedures, by performing regular security audits. e. Respond to network security incidents as required. 3. Implement and support: <ol style="list-style-type: none"> a. Video streaming software parallel adoption. b. Continuation of ASR-920 conversion

	<ul style="list-style-type: none"> c. St. Louis TMC network security between multiple networks. <p>4. Document, Review, and Manage</p> <ul style="list-style-type: none"> a. Network Classless Inter-Domain Routing (CIDR) IP address and 802.1Q VLAN allocations. b. HSRP, REP, and other redundancy features and suggest potential upgrades and improvements. c. Bandwidth usage and suggest strategies on how to mitigate bandwidth congested areas. d. PIM design and suggest potential upgrades and improvements. e. Current Cisco device portfolio and provide a product lifecycle management strategy. f. Current database of IP devices. g. Network changes using industry standard tools. <p>Complete a monthly status report covering adds, moves, changes, and remedial activities.</p>
<p>Other Comments:</p>	<p>Networking Experience</p> <p>The following is an overview of the desired staff experiences and past efforts that would be seen as valuable in managing the GWG Network:</p> <ul style="list-style-type: none"> 1. 7+ years in layer 1 Ethernet technologies including single mode fiber, multimode fiber, and 802.11 (wireless LAN) technologies 2. 7+ years in layer 2 switching technologies including 802.1Q VLANs, REP, and STP 3. 7+ years in layer 3 routing technologies including OSPF routing, Classless Inter-Domain Routing (CIDR) IP addressing, PIM routing, HSRP routing, Dynamic Multipoint Virtual Private Network (DMVPN), private networks over cellular, and NetFlow traffic analysis

	<ol style="list-style-type: none">4. 7+ years in video compression standards and protocols, codecs, and real-time media streaming solutions (e.g., Wowza) <p>Device Experience</p> <ol style="list-style-type: none">1. Cisco IE series switches (IE-3000, IE-4000, IE-5000)2. Cisco ME series switches (ME3600) and ASR-920 devices3. Ubiquiti AirLink series wireless devices (PowerBeam 5AC)4. Cisco 800 series VPN devices (C819)5. Sierra Wireless RV50 devices connected to Verizon Wireless Mobile Private Network6. Cisco 6800 series routers (C6807)7. Cisco C4500X series routers8. Cisco NCS2000 series DWDM shelves (NCS2006)9. Cisco ASR 1000 series firewalls (ASR 1001) <p>Network Security</p> <ol style="list-style-type: none">1. 7+ years in installation, configuration, upgrade, maintenance, and troubleshooting of firewalls and other network security devices2. 7+ years with network security practices, hardening, and audits <p>Network Management</p> <ol style="list-style-type: none">1. Experience with SolarWinds Orion or similar network management automation software2. Experience managing SolarWinds Orion modules: Network Performance Manager (NPM), Network Configuration Manager (NCM), NetFlow Traffic Manager (NTM), User Device Tracker (UDT), and IP Address Manager (IPAM) <p>Troubleshooting</p> <ol style="list-style-type: none">1. Experience with troubleshooting remote instrumentation devices such as CCTV
--	--

	<p>cameras, vehicle detection stations, and industrial control systems</p> <p>Certifications and Experience</p> <ol style="list-style-type: none"> 1. 7+ years of experience managing networks of similar (or greater) size and scope 2. Cisco Associate level certification (e.g., Cisco Certified Network Associate (CCNA) Routing and Switching) <p>Availability</p> <ol style="list-style-type: none"> 1. Be available 24x7x365 by telephone, email, or other approved method for emergency network support 2. Work with TMC staff during normal business hours (Monday-Friday 7:30 AM - 4 PM) unless other arrangements made
<p>Other Comments:</p>	<p>Depending on the responses, the Department may short list firms and request interview/presentations from those teams.</p> <p>The Consultant Short List will be posted to the web</p> <p>Tentative Date of Consultant Interviews-May 23, 2024</p> <p>Tentative Date of Consultant Selection-June 1, 2024</p>

Rating Criteria w/Weighted Values

Project Understanding & Innovation	25 Points Max
Past Performance	15 Points Max
Qualifications of Personnel Assigned	10 Points Max
General Experience of Firm	15 Points Max
Familiarity/Capability	25 Points Max
Accessibility of Firm & Staff	<u>10 Points Max</u>
	100 Points Max Total