



CENTRALBIDDING
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**SOQ 23-037-Provide Professional Traffic Engineering Services for a
period of two (2) years**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
10-Jan-2024 11:56:20 AM

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 23-037 - Provide Professional Traffic Engineering Services for a Period of Two Years
Resolution No. 143314

B. Firm Name & Address:

Gresham Smith
10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Herbert "Bert" Moore II, P.E., PLS, PTOE
State Transportation Leader - Louisiana
bert.moore@greshamsmith.com
225.282.2101

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Herbert "Bert" Moore II, P.E., PLS, PTOE
State Transportation Leader - Louisiana
bert.moore@greshamsmith.com
225.282.2101

E. Please provide the number of employees whose primary function corresponds with each category:

<u> 1 </u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> 3 </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> 1 </u> Graduate Engineers
<u> 6 </u> Civil Engineers	<u> </u> Interior Designers	<u> 1 </u> Project Managers
<u> 3 </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> 2 </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> 3 </u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u> 20 </u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO ☒

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
<p>1.</p> <p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>2.</p> <p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>3.</p> <p>N/A</p>	<p>N/A</p>	<p>N/A</p>

J. Please specify the total number of support personnel that may assist in the completion of this Project:

20

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Herbert "Bert" Moore II, P.E., PLS, PTOE
State Transportation Leader - Louisiana

Project Assignment:

Professional in Charge of Project / Project Executive / Traffic Engineering Lead

Name of Firm with which associated:

Gresham Smith

Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1999 / Civil Engineering, Minor in Land Surveying

Active registration: Year first registered/discipline:

PTOE 2728 / 2009
PE.0031065 / LA / 2004 / Civil Engineer
PLS 5043 / LA / 2010

Other experience and qualifications relevant to the proposed Project:

Bert is a professional engineer with 25 years of experience designing and managing projects in the fields of traffic and transportation engineering. Prior to joining Gresham Smith, Bert spent six years serving as the District Traffic Operations Engineer (DTOE) for the Louisiana Department of Transportation and Development (LADOTD) where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway and over 600 traffic signals in the Department's Baton Rouge region. Bert also has experience designing for non-vehicular traffic such as bicyclists and pedestrians and making accommodations within ROW and at intersections. He has recently completed bicycle and pedestrian master plans for both the City of Denham Springs and the City of Baker. Bert has his Professional Traffic Operations Engineer (PTOE) certification and has completed both the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training. See attached resume.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Christina Florez, P.E. Senior TSM&O Engineer
Project Assignment:
Project Manager/ITS Lead
Name of Firm with which associated:
Gresham Smith
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2001 / Electrical Engineering
Active registration: Year first registered/discipline:
PE.0038799 / LA / 2014 / Electrical and Computer Engineer PE 65603 / FL / 2007 / Electrical and Computer
Other experience and qualifications relevant to the proposed Project:
Christina has been a senior project manager/engineer on complex ITS projects over the past 22 years. She has been the lead engineer, supervising and mentoring staff, as well as the overall project management on a wide variety of projects. Some of her project experiences include: design-build projects, providing support to DOT clients, adaptive traffic signal control (ATSC) plans, integrated corridor management (ICM) planning studies, ITS design and construction support, field inspection and testing, variable speed limit (VSL) system, transportation systems management and operations, systems engineering analyses, incident management system (IMS), and reversible-lane plan development. Christina is one of the leaders of the TSM&O Initiative for Gresham Smith which includes technical areas of ITS, Traffic Signal Systems, Data Management and Analytics, Connected and Autonomous Vehicles, Traffic Incident Management, and Transportation Operations and Strategies. Christina has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training. See attached resume.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Tait Karlson, P.E., PTOE Senior Transportation Engineer
Project Assignment:
Traffic Engineer/ITS Engineer
Name of Firm with which associated:
Gresham Smith
Years' experience with this Firm:
14
Education: Degree(s)/Year/Specialization:
Master of Engineering/2003/Transportation Engineering Bachelor of Science/2001/Civil Engineering
Active registration: Year first registered/discipline:
PTOE 3091 / 2011 PE.0040438 / LA / 2016 / Civil Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Tait has over 18 years of experience performing transportation engineering tasks for many municipalities and DOTs. He has experience in developing traffic studies and creating traffic signal, Adaptive Traffic Signal Control (ATSC), and ITS design plans. Tait has developed the purpose and need studies for interchanges, traffic impact studies for developments, and analyses for freeway systems to determine alternative solutions. He has integrated the use of traffic modeling software to analyze design alternatives, as well as to develop three-dimensional videos for public involvement purposes. Tait's design experience also includes creating roadway, pavement marking, signing, traffic control, lighting, traffic signal, and ITS plans as well as developing specifications and cost estimates for these plans. Tait has his Professional Traffic Operations Engineer (PTOE) certification and has completed all 3 modules of LADOTD's Traffic Engineering Process and Report Training.</p> <p>See attached resume.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Rebecca Murray, P.E., PTOE, RSP1 Transportation Engineer
Project Assignment:
Traffic Engineer
Name of Firm with which associated:
Gresham Smith
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
Bachelor of Science/2015/Civil Engineering
Active registration: Year first registered/discipline:
PTOE 4861 / 2020 PE.0043788 / LA / 2019 / Civil Engineer RSP1 / 611 / 2021
Other experience and qualifications relevant to the proposed Project:
Rebecca has worked in various roles and responsibilities on a variety of projects including interchange and corridor studies, traffic signal design plans, Adaptive Traffic Signal Control (ATSC) plans, traffic impact studies, and traffic modeling as well as feasibility and concept studies. Her responsibilities for these projects include reviewing traffic volumes and crash data to develop traffic models, develop proposed alternatives and perform analysis on the alternatives. She has experience modeling existing and proposed roadway networks in analysis software such as Synchro, Sidra, HCS, and VISSIM. Rebecca has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training. See attached resume.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Alben P. Cooper III, P.E., PTOE
Project Assignment:
Traffic Engineer
Name of Firm with which associated:
Gresham Smith
Years' experience with this Firm:
<1
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2006 / Civil Engineering
Active registration: Year first registered/discipline:
PTOE 3206 / 2012 PE.0036291 / LA / 2011 / Civil Engineer
Other experience and qualifications relevant to the proposed Project:
<p>With over 15 years of experience in transportation engineering, Alben is a Professional Traffic Operations Engineer (PTOE), and a licensed Professional Engineer (P.E.) in Louisiana, Mississippi, Alabama, and Texas. He has been the project manager/engineer on a variety of transportation projects including: safety studies, feasibility studies, signal design and timing of coordinated systems, geometric design, striping and signage design, traffic impact analysis, and transportation management plans. He has been the lead engineer for multiple Stage 0 Feasibility Studies and Environmental Assessments throughout Louisiana. He has also performed studies for intersection/corridor operation and safety improvements including pedestrian facility upgrades. Alben has managed and provided construction administration services for temporary and permanent traffic signal design using the LADOTD TSI format, geometric design, and striping and signage design. He has developed/managed sequence of construction and traffic control device plans for large construction projects. Alben has experience using various analysis programs including Synchro, Highway Capacity Software (HCS), and SIDRA Intersection. He has completed all 3 modules of LADOTD's Traffic Engineering Process and Report Training. See attached resume.</p>

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish - Train Detection System (TDS), Move Metairie Tracking Forward, Jefferson and Orleans Parishes, LA</p> <p>Angela Desoto, P.E. adesoto@jeffparish.net 504.736.6511</p>	<p>Prime Consultant responsible for entire contract. Gresham Smith was selected to implement the Train Detection System (TDS) to solve a long-standing problem of providing advance notice to drivers that a train was approaching or blocking the grade crossing at Metairie Road. Gresham Smith is tasked with coordination for device procurement and installation, implementation of the TDS application, testing, routine maintenance and data management. The implementation of the TDS application includes server configuration and software customization.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2023 (Actual)	\$164,000	\$164,000

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>LADOTD - Lafayette Consolidated Government (LCG) Adaptive Traffic Signal Control (ATSC) Upgrade, H.012018.5, Lafayette, LA</p> <p>Andre Fillastre, P.E. andre.fillastre@la.gov 225-242-4646</p>	<p>Prime Consultant responsible for entire contract. Gresham Smith was selected to implement Adaptive Traffic Signal Control (ATSC) for the Lafayette Consolidated Government (LCG). This project will implement ATSC at 78 intersections, upgrade the existing Naztec TS2 traffic signal controllers at all 190 intersections to the Naztec ATC traffic signal controllers and install a new Emergency Vehicle Preemption (EVP) system at all 190 intersections. This will be the largest adaptive traffic signal system to be installed within the state of Louisiana. This project includes field inspection of 190 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel studies.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
03/2024 (Estimated)	\$813,400	\$813,400

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>LADOTD - Emergency Vehicle Preemption Devices, H.010649.1, East Baton Rouge City/Parish, LA</p> <p>Lucy Kimbeng, P.E., PTOE lucy.kimbeng@la.gov 225.379.2528</p>	<p>Prime Consultant responsible for entire project. Gresham Smith developed a Systems Engineering Assessment (SEA) document in compliance with the FHWA Final Rule for the East Baton Rouge City/Parish Emergency Vehicle Preemption (EVP) Devices project. The project consisted of defining the requirements, Concept of Operations (ConOps), operational strategies, and system alternatives. Gresham Smith also developed the physical architecture, project requirements, procurement alternatives, and high level design.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2017 (Actual)	\$51,000	\$51,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>LADOTD - I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, H.011065.5, Lake Charles, LA</p> <p>Ryan Hoyt, P.E., PTOE ryan.hoyt@la.gov 225.379.1370</p>	<p>Prime Consultant responsible for entire contract. Gresham Smith was responsible for overseeing the data collection, conducting field investigations, travel time runs, reviewing crash reports, developing VISSIM models for existing conditions, determining a regional growth rate, developing and modeling a future No Build condition, and developing a project report.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2018 (Actual)	\$462,000	\$286,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
LADOTD - Farmerville State and Local Roads Study, H.012345, Union Parish, LA Ryan Hoyt, P.E. PTOE ryan.hoyt@la.gov 225.379.1370	Prime Consultant responsible for entire contract. Gresham Smith was contracted to prepare and coordinate a formal traffic study of various state and local roadways in and around the Town of Farmerville, Louisiana. The objectives of the study was to analyze the existing and projected future traffic conditions in and around the Town of Farmerville and to develop alternative design concepts that would improve the safety and efficiency of roadways in the study area.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
10/2017 (Actual)	\$419,000	\$215,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
East Baton Rouge Parish - MovEBR, Bluebonnet Boulevard Sidewalks (Mall Drive 1 to Bluebonnet Centre Blvd.), East Baton Rouge, LA Thomas A. Stephens, P.E. tstephens@brla.gov 225.389.3186	Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard to Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian lighting and pedestrian signals to the existing traffic signals on Bluebonnet Boulevard for the intersections of Mall Drive 1/Constantine Boulevard, I-10 EB Ramps, I-10 WB Ramps and Bluebonnet Centre Boulevard in Baton Rouge, Louisiana. The goal of this project is to bring this existing intersection up to ADA requirements for pedestrians, provide connectivity for pedestrians through these intersections, provide connectivity to the BREC path along Ward's Creek and to the sidewalks along Bluebonnet on either end of the project limits. This includes providing pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 bypass.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
90% Completed: 04/2024 (Estimated)	\$157,000	\$157,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>East Baton Rouge Parish - MovEBR, Sherwood Forest Blvd Multi-Use Path (MUP), Project No. 20-EN-HC-0027, Baton Rouge, LA</p> <p>Thomas A. Stephens, P.E. tstephens@brla.gov 225.389.3186</p>	<p>Gresham Smith is the prime consultant responsible for designing a Multi-Use Path along the west side of South Sherwood Forest Boulevard from South Harrells Ferry Road to Old Hammond Highway. Gresham Smith was selected to provide the safety and timing for the traffic signals through this project, to review the feasibility of the improvements required to the traffic signals. Gresham Smith was also tasked with the design to upgrade these traffic signals to accommodate the MUP and the crosswalks required. This included the intersections of South Sherwood Forest at S. Harrells Ferry, I-12 EB Ramps, I-12 WB Ramps, N. Harrells Ferry and Old Hammond Highway. This project will improve the operation and safety for both vehicular and non-vehicular users by bringing these existing intersections up to current ADA requirements. The signal improvements will include the installation of handicap ramps, crosswalks, pedestrian signal head and audible pedestrian pushbuttons. Gresham Smith has also been tasked with the study and design of pedestrian lighting along Sherwood Forest between these intersections. This included pedestrian lighting for the portion of the path under the I-12 overpass.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>98% Completed: 02/2024 (Estimated)</p>	<p>\$293,000</p>	<p>\$293,000</p>

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>East Baton Rouge Parish - MovEBR, Synch & Comm Signal Rebuilds, Phases I and II, City of Baton Rouge and East Baton Rouge Parish, LA</p> <p>Thomas A. Stephens, P.E. tstephens@brla.gov 225.389.3186</p>	<p>Gresham Smith was selected to redesign the traffic signals for seven intersections in Phase I and four intersections in Phase II within Baton Rouge, Louisiana. These projects replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users. Additionally, this project brings these existing intersections up to current ADA requirements for pedestrians. The designs included luminaries to light the crosswalks at the intersections.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>Phase I & II: 80% Completed: 5/2024 (Estimated)</p>	<p>Phase I and II: \$281,000</p>	<p>Phase I and II: \$281,000</p>

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>LADOTD - I-10 Temporary Management Plan (TMP) West of LA 108 Interchange to I-210 Interchange, H.009620.5-1 Lake Charles, LA</p> <p>Hadi Shirazi, P.E. PTOE hadi.shirazi@la.gov 225.379.1929</p>	<p>Prime Consultant responsible for entire contract. The project consists of identifying the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits and primary detour roadways on I-10 and I-210 within the Lake Charles Metropolitan Area. Tasks included: traffic counts and queue analysis, safety analysis, alternate route/detour analysis, stakeholder involvement, temporary traffic control and documentation.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2018 (Actual)	\$191,000	\$110,000

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>LADOTD - I-10 Twin Spans ITS Design, H.011503.5, Orleans and St. Tammany Parishes, LA</p> <p>Lucy Kimbeng, P.E., PTOE lucy.kimbeng@la.gov 225.379.2528</p>	<p>Prime Consultant responsible for entire contract. The overall contract included providing ITS system engineering analyses, studies and evaluations, product and system alternative analyses, feasibility studies, development of design plans, specifications and cost estimates, providing construction consultation and site visits, structural modifications to existing structure, and incorporated the blending of ITS systems and structure health monitoring system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2018 (Actual)	\$210,000	\$210,000

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

Our staff of experienced professionals includes hand-selected experts who offer national perspectives on innovative and sustainable strategies for Traffic Engineering and ITS such as Traffic Studies, Traffic Signal Design, Adaptive Traffic Signal Control (ATSC), Implementation of Central Traffic Signal Systems, Transportation Systems Management and Operations (TSM&O); ITS/Traffic engineering analyses; ITS/Traffic design; freeway and incident management systems; traveler information systems; Automated Traffic Management Systems; and Connected and Autonomous Vehicles.

At Gresham Smith, our team of professional engineers, planners and integration experts understand the intricacies of publicly-funded transportation projects and deliver quality planning, design, operations and construction management services for federal, state and local projects. Understanding the relationships between all of these phases and operational roles enables us to produce cost-effective solutions that meet our client's specific requirements. Our versatility, grounded in our proven combination of creativity, resources and technical expertise, allows us to deliver a broad diversity of services and projects. We deliver an unparalleled diversity and depth of resources rivaling those of much larger national firms, but we retain the dedicated, personalized service and responsiveness of a smaller, local firm. Our core philosophy for the past 57 years remains the same: Focus on the Success of our Clients.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  **Print Name:** Herbert "Bert" Moore II

Title: State Transportation Leader - Louisiana **Date:** 1/25/2024



Herbert "Bert" Moore II,

P.E., PLS, PTOE

Professional-in-Charge of Project/Project Executive/ Traffic Engineering Lead

Bert is a professional engineer with over 25 years of experience designing and managing projects in the fields of traffic and transportation engineering. Prior to joining Gresham Smith, Bert spent six years serving as the District Traffic Operations Engineer (DTOE) for the Louisiana Department of Transportation and Development (LADOTD) where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway and over 600 traffic signals in the Department's Baton Rouge region. Bert also has experience designing for non-vehicular traffic such as bicyclists and pedestrians and making accommodations within ROW and at intersections. He has recently completed bicycle and pedestrian master plans for both the City of Denham Springs and the City of Baker. Bert has his Professional Traffic Operations Engineer (PTOE) certification and has completed both the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

26

Education

Bachelor of Science, Civil Engineering, Louisiana State University

Registrations

Professional Engineer: LA, AL, GA, KY, TN, TX
Professional Land Surveyor: LA

Memberships/Affiliations

American Council of Engineering Companies
Gulf Region Intelligent Transportation Society
Institute of Transportation Engineers
Society of Professional Surveyors

Accreditations/Certifications

Professional Traffic Operations Engineer

Relevant Projects

Jefferson Parish - Train Detection System (2020), Jefferson Parish, LA | *Project Executive*

Gresham Smith was tasked with developing a Train Detection System for the crossing at Metairie Road. The goal of this project was to notify users when trains

block or will be blocking the crossing at Metairie Road. Gresham Smith developed a mobile application for iOS and Android to inform users when a train is approaching, when the crossing is blocked, and when the crossing is clear. Gresham Smith was also responsible for determining the detector locations, coordinating with the vendor for detector installation, and testing communications and functionality.

LADOTD - I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA | *Project Executive*

Bert was responsible for the overall study, overseeing data collection, conducting safety analysis, the Road Safety Assessment (RSA) the development of Existing, Future Build and No Build calibrated VISSIM models, traffic analyses, development of alternatives and Interchange Modification Report. Gresham Smith was tasked with performing the traffic study which included data collection review, developing growth rates, performing travel times, rerouting traffic for Future Build scenarios, performing the safety analysis/crash review, developing Existing, Future Build and No Build calibrated VISSIM modes, and developing the IMR report.

LADOTD - Farmerville State and Local Roads Traffic Study, Farmerville, LA | *Project Executive*

Bert was responsible for the review of crash reports, the safety analysis, the traffic analysis, development of alternatives, the traffic study report and led the public meetings with local officials and agencies. Gresham Smith prepared and coordinated a formal traffic study of various State and local roadways in and around the Town of Farmerville, Louisiana. The firm analyzed the existing and future traffic conditions and developed alternative design concepts to improve roadway safety and efficiency. Solutions such as a potential bypass around town or a designated truck route were developed. Intersection improvements were also analyzed including additional lanes and operational improvements to traffic signals. Quality Counts performed data collection that consisted of 126 48-hour machine counts, eight 7-day, 24-hour machine counts, 68 turning movements, 192 15-minute driveway counts, and eight radar speed studies. Gresham Smith analyzed these using Synchro 8.



Christina Florez, P.E.

Project Manager/ITS Lead

Christina has been a senior project manager/engineer on complex ITS projects over the past 22 years. She has been the lead engineer, supervising and mentoring staff, as well as the overall project management of a wide variety projects. Some of her project experiences include: design-build projects, providing support to DOT clients, adaptive traffic signal control (ATSC) plans, integrated corridor management (ICM) planning studies, ITS design and construction support, field inspection and testing, variable speed limit (VSL) system, transportation systems management and operations, systems engineering analyses, incident management system (IMS), and reversible-lane plan development. Christina is one of the leaders of the TSM&O Initiative for Gresham Smith which includes technical areas of ITS, Traffic Signal Systems, Data Management and Analytics, Connected and Autonomous Vehicles, Traffic Incident Management, and Transportation Operations and Strategies. Christina has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

23

Education

Bachelor of Science, Electrical Engineering, Florida International University

Registrations

Professional Engineer: LA, AL, FL, GA, KY, MS, OH, TN

Memberships/Affiliations

Gulf Region Intelligent Transportation Society
Louisiana Engineering Society
Transportation Research Board
Womens Transportation Seminar

Relevant Projects

Jefferson Parish - Train Detection System (2020), Jefferson Parish, LA | *Project Manager*

Gresham Smith was tasked with developing a Train Detection System for the crossing at Metairie Road. The goal of this project was to notify users when trains block or will be blocking the crossing at Metairie Road.

Gresham Smith developed a mobile application for iOS and Android to inform users when a train is approaching, when the crossing is blocked, and when the crossing is clear. Gresham Smith was also responsible for determining the detector locations, coordinating with the vendor for detector installation, and testing communications and functionality.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *Project Manager*

Christina was responsible for all project management duties including design oversight, schedule, budget, team coordination, and client satisfaction. Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross Parkway and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will bring this existing intersection up to current ADA requirements for pedestrians.

MovEBR-Synch & Comm Signal Rebuilds, Baton Rouge, LA | *Project Manager*

Gresham Smith was selected to redesign the traffic signals for seven intersections within Baton Rouge, Louisiana. Phase I replaces outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users. Phase II replaces outdated equipment with the latest technologies and improves the operations for both vehicular and non-vehicular users.

LADOTD - Lafayette Adaptive Traffic Signal Design & Implementation, Lafayette, LA | *Project Manager*

Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading over 200 traffic signal controllers. In addition, 76 traffic signals will be upgraded to become adaptive traffic signals. This will be both the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of over 200 traffic signals, design plans for 76 adaptive signals, implementation of a new EVP system, integration support, and before and after travel studies.



Tait K. Karlson, P.E., PTOE

Traffic Engineer/ITS Engineer

Tait has over 20 years of experience performing transportation engineering tasks for many municipalities and DOTs. He has experience in developing traffic studies and creating traffic signal, Adaptive Traffic Signal Control (ATSC), and ITS design plans. Tait has developed the purpose and need studies for interchanges, traffic impact studies for developments, and analyses for freeway systems to determine alternative solutions. He has integrated the use of traffic modeling software to analyze design alternatives, as well as to develop three-dimensional videos for public involvement purposes. Tait's design experience also includes creating roadway, pavement marking, signing, traffic control, lighting, traffic signal, and ITS plans as well as developing specifications and cost estimates for these plans. Tait has his Professional Traffic Operations Engineer (PTOE) certification and has completed all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

20

Education

Bachelor of Science, Civil Engineering, University of Florida

Master of Engineering, Transportation Engineering, University of Florida

Registrations

Professional Engineer: LA, KY, MS, TN, TX

Memberships/Affiliations

Gulf Region Intelligent Transportation Society
Institute of Transportation Engineers

Relevant Projects

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *Transportation Engineer*

Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross Parkway and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will bring this existing intersection up to current ADA requirements for pedestrians.

LADOTD - I-210 at LA 1138-2 (Nelson Road)

Interchange Modification Re-Evaluation Study, Lake Charles, LA | *Traffic Engineer*

Tait gathered data and observations from the field to be used in the traffic model. He also provided QA/QC for the traffic and safety analysis, VISSIM models, and reports. Gresham Smith was tasked with performing the traffic study which included data collection review, developing growth rates, performing travel times, rerouting traffic for Future Build scenarios, performing the safety analysis/crash review, developing Existing, Future Build and No Build calibrated VISSIM modes, and developing the IMR report.

LADOTD - Farmerville State and Local Roads Traffic Study, Farmerville, LA | *Project Engineer*

Tait assisted with the development of the final report and performed QA/QC review. Gresham Smith prepared and coordinated a formal traffic study of various State and local roadways in and around the Town of Farmerville, LA. We analyzed the existing and future traffic conditions and developed alternative design concepts to improve roadway safety and efficiency. Solutions such as a potential bypass around town or a designated truck route were developed. Intersection improvements were also analyzed including additional lanes and operational improvements to traffic signals. Quality Counts performed data collection that consisted of 126 48-hour machine counts, eight 7-day, 24-hour machine counts, 68 turning movements, 192 15-minute driveway counts, and eight radar speed studies. Gresham Smith analyzed these using Synchro 8.

LADOTD - US 171 MLK Boulevard Traffic Study, Lake Charles, LA | *Project Engineer*

Tait assisted with performing peak hour field observations, developing VISSIM models for existing, no-build and the alternatives, calibrating the models, developing the final report, and performing QA/QC review. The study area includes 3 miles of US 171, 8 signalized intersections and a cloverleaf interchange with Interstate 10. These models will be calibrated to accurately represent existing traffic patterns along the corridor. Alternative solutions will be analyzed with additional models. Conceptual designs for potential solutions will be developed and presented to the public in an open house public meeting.



Rebecca Murray, P.E., PTOE, RSP1

Traffic Engineer

Rebecca has worked in various roles and responsibilities on a variety of projects including interchange and corridor studies, traffic signal design plans, Adaptive Traffic Signal Control (ATSC) plans, traffic impact studies, and traffic modeling as well as feasibility and concept studies. Her responsibilities for these projects include reviewing traffic volumes and crash data to develop traffic models, develop proposed alternatives and perform analysis on the alternatives. She has experience modeling existing and proposed roadway networks in analysis software such as Synchro, Sidra, HCS, and VISSIM. Rebecca has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

9

Education

Bachelor of Science, Civil Engineering, Louisiana State University

Registrations

Professional Engineer: LA

Memberships/Affiliations

Womens Transportation Seminar

Accreditations/Certifications

Professional Traffic Operations Engineer

Road Safety Professional 1

Traffic Control Technician

Relevant Projects

MovEBR-Jefferson Hwy at Bluebonnet, Baton Rouge, LA | Lead Traffic Engineer

Rebecca led the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, and developing proposed turn lane geometry using LADOTD and Baton Rouge City-Parish standards.

LADOTD - Lafayette Adaptive Traffic Signal Design & Implementation, Lafayette, LA | Project Engineer

Rebecca is responsible for coordinating field data collection, travel time studies and developing the preliminary and final traffic signal design plans.

Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading over 200 traffic signal controllers. In addition, 76 traffic signals will be upgraded to become adaptive traffic signals. This will be both the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of over 200 traffic signals, design plans for 76 adaptive signals, implementation of a new EVP system, integration support, and before and after travel studies.

MovEBR-Synch & Comm Signal Rebuilds Phase 2, Baton Rouge, LA | Lead Traffic Engineer

Rebecca led the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, and developing proposed traffic signal timing plans using LADOTD and Baton Rouge City-Parish standards. Gresham Smith was selected to redesign the traffic signals for seven intersections within Baton Rouge, Louisiana. Phase 1 will replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users. Phase II will replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | Lead Traffic Engineer

Rebecca is leading the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, existing safety analysis, and developing proposed pedestrian accommodations at signalized intersections using LADOTD and Baton Rouge City-Parish standards.

MovEBR - Sherwood Forest Blvd Multi-Use Path, Baton Rouge, LA | Lead Traffic Engineer

Rebecca led the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, existing safety analysis, and developing proposed pedestrian accommodations at signalized intersections using LADOTD and Baton Rouge City-Parish standards. Smith is performing a traffic study for pedestrian improvements along Sherwood Forest Boulevard in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.



Alben Cooper III, P.E., PTOE

Traffic Engineer

With over 15 years of experience in transportation engineering, Alben is a Professional Traffic Operations Engineer, and a licensed Professional Engineer in Louisiana, Mississippi, Alabama, and Texas. He has been the project manager/engineer on a variety of transportation projects including: safety studies, feasibility studies, signal design and timing of coordinated systems, geometric design, striping and signage design, traffic impact analysis, and transportation management plans. Alben has been the lead engineer for multiple Stage 0 Feasibility Studies and Environmental Assessments throughout Louisiana. He has also performed studies for intersection/corridor operation and safety improvements including pedestrian facility upgrades. He has managed and provided construction administration services for temporary and permanent traffic signal design using the LADOTD TSI format, geometric design, and striping and signage design. He has developed/managed sequence of construction and traffic control device plans for large construction projects. Alben has experience using various analysis programs including Synchro, Highway Capacity Software (HCS), and SIDRA Intersection. He has completed all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

16

Education

Bachelor of Science, Civil Engineering, Louisiana State University

Registrations

Professional Engineer: LA, MS, TX, AL

Memberships/Affiliations

Institute of Transportation Engineers

Accreditations/Certifications

Professional Traffic Operations Engineer

Relevant Projects

LADOTD - US 190 Superstreet, St. Tammany Parish, LA | *Traffic Engineer*

Responsible for the design of 15 permanent traffic signals along the US 190 corridor from I-12 to Sunshine Avenue in St. Tammany Parish, LA. The project involved

converting the existing corridor to a "superstreet" corridor. This included modifying the existing signalized intersections to restrict lefts or throughs from the side streets onto US 190 and providing U-turns on either side of the main intersections. Due to the heavy traffic volumes along the corridor, the U-turns were also signalized. Worked closely with LADOTD to determine the traffic signal operation and locations for signal equipment that would not interfere with construction. Designed fiber interconnect plans to connect each of the signals into a coordinated system. A construction cost estimate was prepared utilizing the latest LADOTD items.

LADOTD - Hooper Road Extension Stage 0, East Baton Rouge/Livingston Parishes, LA | *Traffic Engineer*

Responsible for the preparation of the traffic study that was included in the LADOTD Stage 0 Feasibility Study for the extension of Hooper Road from LA 64 (Greenwell Springs Rd) in East Baton Rouge Parish across the Amite River to LA 16 in Livingston Parish. The study included the development and analysis of intersection alternatives at various termini of the extension including traditional intersections, roundabouts, SPUIs, partial cloverleafs, and flyovers. Three alternatives for the extension termini point at LA 16 were considered and analyzed. Tasks consisted of data acquisition, traffic assignments and forecasting, capacity analysis, preparation of the traffic study report and attendance at public meetings. Analysis was performed using SIDRA and Synchro.

LADOTD - I-49 South Feasibility Study, Lafourche/St. Charles/Jefferson Parishes, LA | *Traffic Engineer*

Alben was a project engineer for a project that included research and data collection, traffic data collection and Tier 1 Interchange analysis for the 13 interchanges along the proposed I-49 South corridor between Raceland, LA, in Lafourche Parish and the Westbank Expressway in Jefferson Parish. Alben's roles consisted of aiding in the collection and review of traffic data, determining peak period times for additional data collection, rerouting of existing traffic volumes, developing growth rates and projecting volumes to the design year, and analysis for the determination of traffic operations rankings for inclusion in the Tier 1 matrix. Alben worked closely with DOTD to develop and implement methodology for the rerouting of traffic volumes to the proposed interchanges.