

**REQUEST FOR
PROFESSIONAL ENGINEERING
SERVICES
For
Plans, Specifications & Estimates (PS&E)**

September 18, 2019

**For
West Central Alabama ACTION
(Advanced Connected Transportation Infrastructure &
Operations Network)
UA Project No. 000-19-2168**

Issued by

Construction Administration The University of Alabama

Note:

This submittal will be deemed a public record and open to public inspection; therefore, this submittal should not include anything that needs to be maintained in confidence. If there is material which the proposer deems confidential, the proposer should indicate which material is deemed confidential, and that the material will be released to UA only upon a promise of confidentiality. This will allow UA to protect it against an open records request.

Please address all submittals and clarification questions to:

Mr. Tommy Alfano, Senior Project Manager Construction Administration

Who will receive and distribute RFI's

The University of Alabama

1400 Warrior Drive

28 USC-Cottage 8

Tuscaloosa, Alabama 35404

Voice 205-348-1853

Email: talfano@fa.ua.edu

PROFESSIONAL SERVICES PROCUREMENT SCHEDULE

September 18, 2019	Advertise in Newspaper and Post RFQ
October 8, 2019	Response deadline for Professional Engineering firms
October 11, 2019	Selection Committee Evaluation
October 14, 2019	Notification to the top ranked Professional Engineering firms
October 22, 2019	Selection Committee oral interviews (top ranked Professional Engineering firms)
October 23-24, 2019	Professional Engineering firm rankings and Recommendation
October 30, 2019	Professional Engineering firm approval
November 7, 2019	Professional Engineering firm submit Price Proposal
November 8-15, 2019	Pricing Review and Approval (pending funding availability)

OVERAL PROJECT DESCRIPTION

The Proposed Project will deploy an Advanced Connected Transportation Infrastructure & Operations Network (ACTION) on freeways and arterials in and around Tuscaloosa, Alabama. ACTION initiative's core theme is to leverage technological advances to enhance efficiency, capability, and safety. A multi-agency partnership will work collaboratively on the ACTION initiative. The partnership includes the Alabama Transportation Institute (ATI) at The University of Alabama (UA), the Alabama Department of Transportation (ALDOT), The Tuscaloosa County Road Improvement Commission (TCRIC), the cities of Tuscaloosa and Northport, and other local and regional industry stakeholders, including manufacturing and trucking.

ACTION will streamline traffic flow to improve mobility on the region's road network during both normal operations and situations when roadway capacity or traffic demands adversely affect traffic operations (e.g., events that generate significantly higher traffic volumes, events that reduce roadway capacity, inclement weather, and other emergency situations). It will substantially mitigate congestion, improve travel time reliability, and enhance safety for motorists and pedestrians in the region, all of which are critical for the region's economic vitality and interstate commerce.

Key components of ACTION include a network of sensors and cameras, communications technologies, and traffic signal systems, as well as mobility tools for passenger and freight traffic. These will facilitate near real-time exchange of data among vehicles, network elements, and users. Facets of ACTION include user functionality embedded in existing mobility apps for motorists and pedestrians, responsive traffic signals, and smart work zones. These will enable agencies to implement operational strategies based on real-time demand and capacity, allowing motorists to respond proactively to such changes. These capabilities will result in reduced congestion, increased travel time reliability, and improved safety and will thus yield significant economic and environmental benefits.

ACTION Initiative will deploy:

- Network Pan-Tilt-Zoom Cameras
- Deep-Learning Algorithms for Camera Crash Detection
- Dedicated Short-Range Communication Radios
- Advanced Traffic Signal Controllers
- Mobile Phone Application Platform
- Transit In-Vehicle and User Applications
- V2I, V2V, and V2P based Traffic Communications
- Cable Median Crash Sensors
- Communication network

ACTION project elements will include:

- Connected Arterials
- Connected Freeway Corridor
- Truck Parking
- Cable Median Sensors
- Freeway Fiber Optics
- Alabama Service Assistance Patrol (ASAP) Information Enhancements
- Data Integration & Analytics
- Deployment Evaluation

Stakeholders

- Alabama Department of Transportation (ALDOT)
- Tuscaloosa County Road Improvement Commission (TCRIC)
- Cities of Tuscaloosa & Northport
- The University of Alabama (UA)
 - Alabama Transportation Institute (ATI)
 - Center for Advanced Public Safety (CAPS)
- Mercedes-Benz U.S. International (MBUSI) and Supply Chain

ACTION Objectives:

- Deploy sensor systems, communications, analytical tools, and technologies to monitor and proactively manage the regional freeway and arterial network for safer and more efficient operations.
- Improve system reliability and performance by using advanced data integration, analytics, and applications.
- Enhance mobility within the region to improve access to economic activities, education, employment, and healthcare, especially for underserved communities.
- Increase system level fuel economy and mitigate adverse environmental effects.
- Provide economic benefits to the region by improving system throughput and reducing delays.
- Create and showcase the first multi-jurisdictional connected vehicle-to-infrastructure (V2I) deployment initiative in Alabama as a model for other areas.

Schedule

See Attached

PS&E Abbreviated Scope of Work

The core team for ACTION has determined the need and will seek professional engineering consultant services (in accordance with UA policies) to provide specific support on project elements such as developing PS&E documents required for the project. A Professional Engineering firm will be selected to help identify key technology elements.

Portion of Work Requiring Professional Engineering Services

No major construction is envisioned as part of the ACTION project. Any construction will be incidental for the installation of the technology elements (e.g., sensor network). The incidental construction components in this project will relate to the technology deployments (e.g., sensors, signal controllers, poles and fiber optic communication links, and switches). The portion of work listed below will require Professional Engineering services/PS&E documents.

- **Pole & Foundation:** 21 sensor locations will require 70-ft direct-bury galvanized steel poles at each location. Poles will be used to mount PTZ/advance cameras and the volume, speed, and classification sensors. Poles will be spaced approximately 1 to 2 miles apart within a 32 mile stretch of I-20/59.
- **Freeway Fiber Optics Network:** To provide communications to the sensors deployed on the freeway, approximately 32 miles of fiber optic communication will need to be installed to link each camera location to the RMTC.
- **Connected Freeway:** Installation of 21 PTZ cameras in freeway right of way for advance video detection systems.

After the necessary and required engineering documents are completed, the appropriate

project elements will be put out for bid and awarded accordingly (in accordance with UA's policies). All construction bid packages will be competitively bid in compliance with the State of Alabama Public Works Law (Code of Alabama, Title 39) and Alabama Department of Transportation (ALDOT) requirements.

APPLICATION REQUIREMENTS:

- Professional Engineering firms must be in compliance with Code of Alabama, Title 34 with reference to Section 34-11-9 as it relates to professional license requirements for individuals and firms.
- Professional Engineering firms must be familiar with Alabama public bid statutes and public bid requirements.
- Professional Engineering firms must be familiar with ALDOT Local Public Agency (LPA) program requirements.
- Experience with interstate design, arterial roadway design, roadway bridge projects, railroad crossings, roadway design for Urban Collector's in an institutional environment, and including experience with next-generation sensor and traffic control systems and communication platforms.
- The Professional Engineering firm will be responsible for providing engineering designs to satisfy the UA design standards and guidelines, the Alabama Department of Transportation (ALDOT) and Federal Highway Administration (FHWA) codes and standards, as well as any other applicable code for this type of project.

Please provide one (1) hard copy, five (5) DVD's, and five (5) flash drives of the responses by 12:00 pm local time on Tuesday, October 8, 2019. Electronic submittals shall be generated in a presentation format (preferably Adobe PDF) including a cover/title page with your firm's name, project name and number. Each flash drive should be labeled with your company name or logo. All submittals can be hand delivered or registered postal. Faxed or late submittals will not be accepted.

SUBMISSION REQUIREMENTS:

Respondents shall carefully read the information contained in the following criteria and respond in their application.

ONE: RESPONDENT'S STATEMENT OF QUALIFICATIONS (Score 1-5)

- A. Describe your firm's experience working with other universities and state agencies.
- B. Describe your firm's experience working with The University of Alabama.
 - a. The UA desires to have input in the procurement of consultants once the top ranked firm is selected.
- C. Describe your firm's experience working with the Alabama Department of Transportation (ALDOT) including ALDOT billing procedures.

- D. Describe your firm's experience working with the Federal Highway Administration (FHWA).
- E. UA encourages the use of certified minority-owned businesses and certified women-owned businesses in its construction program. Describe your firm's approach in soliciting certified minority-owned or women-owned firms and consultants.

TWO: RESPONDENT'S PERFORMANCE ON PAST REPRESENTATIVE PROJECTS (Score 1-5)

- A. Identify and describe the proposed team's experience providing Professional Engineering design services that are **identical or similar** to this project within the last ten (10) years. List the projects in order of priority, with the most relevant project listed first.
- B. Provide references (for each project listed above, identify the following):
 - The Owner's name and their representative who served as the day-to-day liaison during the design and construction phases of the project, including current contact information.

The Owner may contact these references during this qualification process.

- C. Has your firm/organization within the past seven (7) years ever been terminated from a design project? If yes, please give pertinent details.

THREE: LITIGATION AND CLAIMS (Score 1-5)

- A. Does your firm/organization or any of its officers currently have any judgments, claims, arbitration or mediation proceedings pending or outstanding? If yes, please give pertinent details and outcome(s).
- B. Has your firm/organization within the past seven (7) years filed any lawsuits or requested arbitration or mediation proceedings in regard to any of your construction projects? If yes, please give pertinent details and outcome(s).

FOUR: RESPONDENT'S ABILITY TO MEET INSURANCE REQUIREMENTS

(Score 1-5)

- A. Does your firm/organization have the ability to meet all of the UA insurance requirements? (see attached)
- B. What is your process for managing any claims of the contractors during the project?

FIVE: PROJECT SPECIFIC CRITERIA (Score 1-5)

- A. Describe your firms experience with projects that involve the implementation of advanced Connected and Automated Vehicle Infrastructure Systems (CAVIS) / Intelligent Transportation Systems (ITS) and transportation management technologies.
- B. Describe some of your design or construction challenges and solutions you may have encountered during major roadway and bridge crossing projects.
- C. What is your design approach or methodology and standard of care with roadway projects?

SELECTION PROCESS:

Upon receipt, submittals will be evaluated by the Selection Committee. The Selection Committee will rank the Professional Engineering firms accordingly to participate in oral Interviews (usually top three). A project program (if applicable or complete) will be sent to all top ranked Professional Engineering firms to assist with their oral interviews. Following oral interview evaluations, the top ranked A/E firms will be recommended to the Board of Trustees for approval. A contract will be negotiated with the top-ranked A/E firm as approved by the Board of Trustees. If a contract can be negotiated, then that firm will be selected. If a contract cannot be negotiated, then negotiations with the next highest ranked A/E firm will commence until an agreement satisfactory to UA is reached. Preference shall be granted to an Alabama-based firm when qualities are comparable.

Note:

Upon entering into an Agreement, the selected firm will be required to submit a Vendor Disclosure Statement. Samples of these documents are attached for your review.

ATTACHMENTS

- A. Insurance Requirements
- B. Vendor Disclosure Statement
- C. Schedule

University of Alabama Designer Insurance Requirements

1.01 Upon execution of the Agreement, the Designer shall procure the insurance coverages identified below at the Designer's own expense, and to evidence that such insurance coverages are in effect, the Designer shall furnish and attach to the Agreement insurance certificate(s) acceptable to the Owner and listing the Owner as the certificate holder. The Board of Trustees of the University of Alabama, its individual trustees, officers, directors, employees, agents and representatives shall also be named additional insured and shall be indicated on the certificate.

1.02 **Policy Providers:** Each of the insurance coverages required below shall be issued by an insurer licensed by the Insurance Commissioner to transact the business of insurance in the State of Alabama for the applicable line of insurance, and such insurer must have a Best Policyholders Rating of "A-" or better and a financial size rating of Class VII or larger.

The Designer may elect to participate in a group self-insured workers' compensation program or to qualify with the State of Alabama Department of Industrial Relations as an individual self-insured employer, as long as the self-insurance program is in good standing with the Department of Industrial Relations and the Designer has excess workers' compensation insurance to cover all statutory obligations above the amount they have been authorized to self-insure.

1.03 **Notification Endorsement:** Each policy shall be endorsed to provide that the insurance company agrees that the policy shall not be canceled, changed, allowed to lapse or allowed to expire for any reason until thirty days after the Owner has received written notice by certified mail as evidenced by return receipt or until such time as other insurance coverage providing protection equal to protection called for herein shall have been received, accepted and acknowledged by the Owner. Such notice shall be valid only as to the project as shall have been designated by Project Name and Number in said notice.

1.04 **Insurance Certificates:** Insurance certificates must provide the following information:

1. Name and address of authorized agent of the insurance company
2. Name and address of insured
3. Name of insurance company or companies
4. Description of policies
5. Policy Number(s)
6. Policy Period(s)
7. Limits of liability
8. Name and address of Owner as certificate holder / additional insured
9. Project Name and Number, if any
10. Signature of authorized agent of the insurance company licensed to transact business in the State of Alabama
11. Telephone number of authorized agent of the insurance company
12. Mandatory thirty day notice of cancellation / non-renewal / change
13. The certificate of insurance must include the following language:
The Board of Trustees of the University of Alabama, its individual trustees, officers, directors, employees, agents and representatives are included as an additional insured as respect to the Commercial General Liability & Excess/Umbrella policy. Unless precluded by law or restricted or modified by contract, all policies waive the right to recovery or subrogation against the Board of Trustees of the University of Alabama, its individual trustees, officers,

directors, employees, agents and representatives.

14. If applicable, the certificate shall identify any policy(s) with an aggregate limit on a “per job” or “per project” basis.

1.05 Designer’s Insurance Coverages: Unless otherwise provided in the Special Provisions of the Agreement, the Designer shall purchase the types of insurance coverages with liability limits not less than as follows:

1. **Workers’ Compensation** coverage shall be provided in accordance with the statutory coverage required in Alabama. A group or individual self-insurer must submit a certificate of authority from the Alabama Department of Industrial Relations approving the group insurance plan. The Designer must provide evidence of statutory excess insurance to cover any obligation in excess of the amount allowed to be self-insured by the State of Alabama.

2. **Employer’s Liability Insurance** limits shall be at least:

Bodily Injury by Accident - \$1,000,000 each accident
Bodily Injury by Disease - \$1,000,000 each employee

3. **Commercial General Liability Insurance**, written on an ISO Occurrence Form (current edition as of the date of this Agreement) or equivalent, which shall include, but need not be limited to, coverage for bodily injury and property damage arising from premises and operations liability, products and completed operations liability, personal injury liability and contractual liability.

The Commercial General Liability Insurance shall provide, at minimum, the following limits:

Coverage	Limit
General Aggregate	\$ 2,000,000.00
Products, Completed Operations Aggregate	\$ 2,000,000.00
Personal and Advertising Injury	\$ 1,000,000.00 per Occurrence
Each Occurrence	\$ 1,000,000.00

The Commercial General Liability Insurance policy shall name the Owner and its individual trustees, officers, directors, employees, agents and representatives as additional insureds and shall state that this coverage shall be primary insurance for the additional insureds.

4. **Commercial Business Automobile Liability Insurance** which shall include coverage for bodily injury and property damage arising from the operation of any owned, non-owned or hired automobile. The Commercial Business Automobile Liability Insurance Policy shall provide not less than \$1,000,000 Combined Single Limits for each occurrence and shall name the Owner, and their agents, consultants and employees as additional insureds.
5. **Professional Liability (Errors & Omissions) Insurance** shall be carried in an amount not less than \$1,000,000 for each claim and \$2,000,000 aggregate.
6. **Excess/Umbrella Liability** – The required General Liability, Business Auto Liability or Employers Liability limits may be accomplished through a combination of primary and excess/umbrella liability policies written on a follow-form basis. The excess/umbrella liability

coverage shall be included on the certificate of insurance and the certificate holder shall be included as an additional insured.

1.06 Designer's Consultants' Insurance Coverages:

1. **Workers' Compensation and Employer's Liability Insurance.** The Designer shall require each of its consultants who will perform services at the Project site to obtain and maintain Workers' Compensation and Employer's Liability Insurance coverages as described in preceding Article 17.05 Item 1.
2. **Automobile and General Liability Insurance.** The Designer shall require each of its consultants who will perform services at the Project site to obtain and maintain Automobile and General Liability, Insurance coverages with the limits described in preceding Article 17.05 Item 3 & 4.
3. **Professional Liability Insurance.** The Designer shall require each of its consultants to obtain and maintain Professional Liability Insurance with coverage as described in preceding Article 17.05 Item 5.
4. **Enforcement Responsibility.** The Designer shall have responsibility to enforce its consultants' compliance with these insurance requirements; however, the Designer shall, upon request, provide the Owner acceptable evidence of insurance for any consultant.

1.07 Termination of Obligation to Insure: Unless otherwise expressly provided in the Special Provisions of the Agreement, the obligation of the Designer and its consultants to insure as provided herein shall continue as follows:

1. **Professional Liability (Errors & Omissions) Insurance** shall be carried for two years after the last Date of Substantial Completion of the Construction Contract(s).
2. **Other Insurance:** The obligation to carry the other insurance coverages of preceding Article 17.05 or coverages equal to them, shall remain in effect after the last Date of Substantial Completion of the Construction Contract at any time the Designer, its consultants, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, returns to the Project to perform services required of the Agreement, but in no case shall be less than 24 months beyond the Date of Substantial Completion.

1.08 Waivers of Subrogation: To the extent that loss or damage is covered by property insurance during construction, the Owner and Designer waive all rights against each other and against the contractors, consultants, agents and employees of the other for damages, except such rights as they may have to proceeds of such insurance held by the Owner, Designer, or Contractor as fiduciary. The Owner or Designer, as appropriate, shall require of the contractors, consultants, agents and employees of any of them similar waivers in favor of the other parties enumerated herein. This waiver shall not be applicable to loss or damage that occurs after final acceptance of the Work.

1.09 Deductibles and Self-insured Retentions ("SIR"): The Designer may elect to secure an insurance program with a deductible or SIR of up to \$25,000 without prior approval from the University. Any deductible or SIR larger than this amount must be approved by the Owner and audited

financials will be required to judge the financial ability to absorb the obligations of a deductible or SIR without a material impact on the solvency of the contractor.

- 1.10 Impairment of Limits:** In the event the insurance program required by the Owner were to have any pending claim(s), which **may** limit or exhaust any aggregate limits by more than 20%, the Owner shall be notified within 30 days. The Owner may require additional insurance or reinstatement of the limits of liability, as necessary to protect the financial interest of the Owner.



VENDOR DISCLOSURE STATEMENT

In compliance with the policies of The Board of Trustees of the University of Alabama, The University of Alabama System Office, this University, and with Alabama state law, this Disclosure Statement shall be completed on a per contract basis for all contracts, including but not limited to proposals, bids, and contracts, including consulting/professional service contracts unless otherwise exempted ("Agreements"). The Board of Trustees of The University of Alabama reserves the right to refuse to enter into or to cancel, without penalty, any contract or agreement with any entity or individual who does not provide all of the information requested below, or who makes false or incomplete disclosures.

Definitions

For the purposes of this form, the following terms shall have the following meanings:

- **"Agreement."** Any single agreement, contract, memorandum of understanding, or grant document under which goods or services are to be provided by You.
- **"Entity."** The corporation, partnership, sole proprietorship, individual or business of any kind in whose name or on whose behalf the goods or services are being provided to the University.
- **"Family Member."** Your spouse, dependent, an adult child and his or her spouse, a parent, a spouse's parents, and a sibling and his or her spouse. The term "Dependent" shall include any person, regardless of his or her legal residence or domicile, who receives more than 50 percent of his or her support from the public official or employee or his or her spouse, or who resides with the public official or employee for more than 100 days during the reporting period.
- **"Public Official."** Any person elected to public office, whether or not that person has taken office, by vote of the people at state, county, or municipal level of government or their instrumentalities, including governmental corporations, and any person appointed to take a position at the state, county, or municipal level of government or their instrumentalities, including governmental corporations.
- **"Relationship."** Limited to familial or business in nature, or a personal relationship that the existence of which creates a Conflict of Interest or the appearance of a Conflict of Interest that would require disclosure under [Board Rule 106](#).
- **"UAS."** The Board of Trustees of The University of Alabama, and its constituent divisions including The University of Alabama System Office, The University of Alabama, The University of Alabama at Birmingham, and The University of Alabama in Huntsville.
- **"You."** Includes (1) the individual(s) or representative(s) of the Entity who (a) solicited the Agreement or (b) are responsible for managing the account or relationship with the University, and their partners or co-owners; and (2) any member of the of foregoing individuals' immediate family (that You know to have a direct familial relationship with a UAS employee or official or family member of a UAS employee or official).

1. Name of Entity and Individual Completing this Form (may be completed by an authorized account manager/representative)

Entity Name:	<input type="text"/>		
Individual Name:	<input type="text"/>		
Title:	<input type="text"/>		
Address Line 1:	<input type="text"/>		
Address Line 2:	<input type="text"/>		
City, State, Zip:	<input type="text"/>	Telephone:	<input type="text"/>

2. UAS Entity with which You propose an Agreement? (i.e. University, College, Department, etc.)

3. Describe the proposed Agreement:

Goods and services to be provided:

Grant or proposal number (if applicable):

Amount or anticipated amount:

Term:

Is the proposed Agreement the result of a competitive or bid process? Yes No

4. Have "You" (See definition above) or the Entity supplying the goods or services previously provided goods and/ or services to UAS within the current or last fiscal year? Yes No

If yes, please provide the following information for each other agreement for such goods and/or services.

Entity Providing Goods or Services: _____

Campus and Department: _____

Type of Goods/Services: _____

Amount Received: _____

Entity Providing Goods or Services: _____

Campus and Department: _____

Type of Goods/Services: _____

Amount Received: _____

If you need to provide further details on goods or services provided to UAS within the current or last fiscal year, please attach an addendum to this Disclosure Statement.

5. Did the amount of goods and /or services identified in response to Question 4 total \$1,000,000 or more? Yes No

6. a. Do You have a relationship with any UAS employee or Trustee who may directly or indirectly receive any benefit from the proposed Agreement, or whose family member or business may directly or indirectly benefit? Yes No

b. Do You have a relationship with any Public Official who may directly or indirectly receive any benefit from the proposed Agreement, or whose family member or business may directly or indirectly benefit? Yes No

If You answered "Yes" to questions **6.a.** and/or **b.**, please provide the following information for each UAS employee, Trustee, or Public Official with whom You have a Relationship.

Name of UAS employee, Trustee, or Public Official: _____

Campus/department where employed or position held: _____

Nature of relationship: _____

Potential Benefit: _____

Name of UAS employee, Trustee, or Public Official: _____

Campus/department where employed or position held: _____

Nature of relationship: _____

Potential Benefit: _____

If you need to provide further information regarding UAS employee(s) or Trustee(s), or Public Officials with whom You have a Relationship, and who may directly or indirectly benefit from this Agreement, please attach an addendum to this Disclosure Statement.

7. Have any paid consultants, lobbyists, and/or Public Official assisted in obtaining the proposed Agreement? Yes No

If yes, please provide the following information for each consultant or lobbyist.

Name: _____

Address: _____

Name: _____

Address: _____

If you need to provide further information regarding paid consultants and/or lobbyists utilized to obtain the proposed Agreement, please attach an addendum to this Disclosure Statement.

8. List any current litigation or administrative action that has been filed within the last 3 years, either state or federal, related to public or higher education construction or finance that the contractor or others associated with the firm may have against them.

By signing below, I certify under oath and penalty of perjury that all statements on or attached to this form are true and correct to the best of my knowledge. By proposing or entering into an Agreement with UAS, I certify I am authorized to complete this form on behalf of the Entity in whose name or on whose behalf goods or services are being provided, and I further certify no employee or official of UAS, nor any of their family members or any business with which they may be associated, will receive a benefit from this contract, except as has been disclosed, in writing herein. I will promptly disclose any Relationship which may arise in the future, or any existing Relationship which may become known to me, and update this statement to disclose the same.

Signature

Date

Activity ID	Activity Name	Quarter														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	ACTION Master Schedule															
	Preconstruction Phase	Preconstruction Phase														
	PS&E Procurement	PS&E Procurement														
	PS&E Design	PS&E Design														
	Bid & Award	Bid & Award														
	Construction Phase	Construction Phase														
	Connected Freeway & Fiber Optics Network	Connected Freeway & Fiber Optics Network														
	Connected Arterial	Connected Arterial														
	Cable Median Sensors	Cable Median Sensors														