# FHWA Office of Safety Research and Development Technical Services Support

# Volume I – Technical Proposal

# Solicitation # 693JJ321R000011

Proposal Submission: 23 August 2021, 01:00 pm EDT

#### **Submitted To:**

Department of Transportation Federal Highway Administration Office of the Chief Financial Officer Office of Acquisition & Grants MGMT 1200 New Jersey Avenue, SE Location: E62-204 Washington DC 20590-0001 POC: Delont'e McKinney Email: <u>delonte.mckinney@dot.go</u> Phone: 202-366-4106

## Submitted By:

Offerors Name: Address: POC: Email:

Phone:

DUNS:

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\*\*\*Submit this letter on company letterhead\*\*\*

## 23 August 2021

Submission Method: Proposal shall be submitted electronically to Delont'e McKinney via email at <u>Delonte.McKinney@DOT.GOV</u> and <u>HCFA-22SRI@DOT.GOV</u>.

Department of Transportation Federal Highway Administration Office of the Chief Financial Officer Office of Acquisition & Grants MGMT 1200 New Jersey Avenue, SE Location: E62-204 Washington DC 20590-0001

Attention: Mr. Delont'e McKinney

Subject: Response to Solicitation # 693JJ321R000011 – FHWA Office of Safety Research and Development Technical Services Support.

Dear Mr. McKinney

Sincerely,

Signature

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\*\*\*Use this table of contents (TOC) as an example of what one looks like. When it comes time for creating your own TOC, RIGHT CLICK anywhere in the Table of Contents, select UPDATE FIELD, then select UPDATE ENTIRE TABLE or UPDATE PAGE NUMBERS ONLY, and click OK\*\*\*

VOLUME I – TECHNICAL PROPOSAL [L.11.VOLUME (VOL) I, M.2.(A)]		
Writer	Use this field to insert the name of the writer for this particular section.	
Section L	Volume I – Technical Proposal	
	This volume shall consist of three parts. Parts I, II, and III shall be bound together. No Cost/Price data shall be included in any part of Volume I.	
	NOTE: The Offeror shall indicate under Volume I of the proposal, the name(s) and title(s) of the person(s) who actually writes the proposal and his/her relationship to the offering organization.	
Section M	TECHNICAL Technical proposals will be evaluated and assessed based on the following	
	criteria of equal importance:	
Other Information	Insert any other information related to any attactment or annex re.	

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Proposal Writer Name	
Title	
<b>Relationship to the Organization</b>	

## 1 PART I – TECHNICAL/MANAGEMENT APPROACH (30 PAGES LIMIT) [L.11.VOL I.PART I, M.2.(A).A]

Writer	Use this field to inservice name of the writer for this particular section.
Secton L	Part I – Teconical/Management Approach The Outeror's response shall demonstrate an understanding of the requirements and approach to addressing the work tasks anticipated and how the contract requirements and objectives will be met. The proposal shall not repeat Section Constatement of Work requirements, but instead demonstrate an understanding of the issues involved, the approach to addressing such issues, and the unique experience of the Offeror's team to address such considerations.
Section M	A. Technical Approach – FHWA will be evaluate the Offeror's proposal to determine if it meets, exceeds or fails to demonstrate an understanding of the technical requirements and tasks in Section C – Description/Specifications. This will also be evaluated to determine if the Offeror's proposal demonstrates

	an approach to successfully implement, accomplish, and manage the technical requirements of Section C.
Other Information	Insert any other information related to any attachment or annexure.

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#### Understanding of the Requirements and Approach to Address the Task 1.1 Use this field to insert the name of the writer for this part. Writer ection. Section C C.4 DETAILED REQUIREMENT The Contractor shall perform work as detailed in individual tark ord . The requirements of individual task of Il rela. the following Task Areas. • Task Area A: Technical Steps on Hun n Factor Task Area B: Technic upport of incle and Equipment Factors; Task Area C: Technical Up I Environment Factors; rt on Phy. chnical Support Demographic and Socioeconomic Task Area Factors: for Integrated Safety & Operations; and Task Area E: Appled Analy F: Preparation and Delivery of Training and Knowledge Transfer. • Ta The ind vidue ders may span more than one of the defined Task Areas. Ot Insert any other information related to any attachment or annexure. Information

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## 1.1.1 Task Area A – Technical Support on Human Factors [C.4.1]

Writer	Use this field to insert the name of the writer for this particular section.
Section C	C.4.1 Task Area A: Technical Support on Human Factors

The focus of this task area is to provide research that examine the relationships between driver behavior and safety, by increasing our understanding of the human capabilities of vehicle operators and other roadway users such as
pedestrians and bicyclists.
Contractor support for Task Area A will support research to include the following topics:
• Behavioral Analysis – to further the understanding of high any user needs so that those needs can be incorporated into roadway design, construction, repair, and improvement;
• Naturalistic Driving Study-based Human Behavior Ana, is to examine how motorists interact with the roadway environment and we cues and measures are the most effective in influencing driver behavior, we created under the Second Strategic Highway Research Fouram (SHRP2) Natural stic briving Study program;
• Sign Design and Research – to determine the maximum distance at which a sign can be read, the driver's comprehension of new collaborative sign symbols, sign conspicuit (in the new t-of-y ay, and driver usual behavior in the presence of Changeable ussage Sign
• Human Factors Simulation - constudy drives comprehension of roadway markings in a range of environmental conditions, driver comprehension of alternative intersection designs, and driver response to traffic signal controls in the roadway and in the vehicle
• Situational Awarences and Insperment – to study the degradation of driver cognition in short-duration yet overwhelming circumstances, such as observing an extreme menuer in your proximity or interacting with vehicles that have slowed following on incident downstream; and
• Pedestrier and Bicyc ast Safety – to study the interactions of pedestrians, bicyclists, and micromobility users with the entire transportation network and to determine how to achieve visual conspicuity and salience equal to other venice.
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Writer	Area B – Technical Support on Vehicle and Equipment Factors [C.4.2]Use this field to insert the name of the writer for this particular section.
Section C	C.4.2 Task Area B: Technical Support on Vehicle and Equipment Factors
	The focus of this task area is to develop in-vehicle methods of alerting drivers of imminent and situational risk and to comprehend how vehicle occupants are physiologically affected by crashes.
	Contractor support for Task Area B will support research to include the following topics:
	• In-Vehicle Based Systems – to understand how the perturbative of vehicle- based equipment to accurately detect and warn the driver of potential crash is actually affects crash activity;
	• Event Data Recorder Analysis – to determine the pre-crash vehicle kinematics;
	• Naturalistic Driver Study-based Vehicle Data – to construine the vehicle behavior and its interactions with the environment based or operator decision and external factors, as worted under the SHRP2 Natura stic Driving Study program;
	• Crash Causation Studies – to comprehend becauge of factors and circumstances that caused metor vehicles, motorcycles, and large trucks base on crash data and doesn't crash report and
	• Speed Analysis – to study how variance in speed and alterations to speed limits affect crash incidence.
Other nformering	Insert my other information related to any attachment or annexure.

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## 1.1.3 Task Area C Pechnical Support on Physical Environment Factors [C.4.3]

Writer	Use this field to insert the name of the writer for this particular section.
Section C	C.4.3 Task Area C: Technical Support on Physical Environment Factors
	The focus of this task area is to examine the physical characteristics of the roadway and roadside to develop safety countermeasures.

	Contractor support for Task Area C will support research to include the following topics:
	• Roadside Hardware Performance Analysis – to analyze the effectiveness of longitudinal barriers, barrier systems, and end terminals to prevent road departure and maximizing the protection of the vehicle occupants;
	• Geometric Design and Analysis – to improve upon alternative designs developed outside of the United States (US) and to assess the safety performance of geometric designs;
	• Crash Modification Factors – to articulate how a part of ar safet countermeasure can reduce the expected number of crash
	• Roadway Curvature Analysis – to determine how varying vehicle classifications negotiate curves, and deres using countermeasures to prevent roadway departures;
	• Large Scale Vehicle Monitoring and Nodeling - coprovide how resolution of vehicle movements through a convision of roadway and to define how discrete vehicle movements are incorrect by the geometric design in the subject location; and
	• Roadway Inventory Data base (RID) – to develop countermeasures based on the Geographic Information System (GIS), the Dc, and crash record data provided in the ND, as created under the SHXP2 Naturalistic Driving Study program.
Other Information	Intert any other information restrict to any attachment or annexure.

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1.1.4 Task Area D – Technical Support on Demographic and Socioeconomic Factors [C.4.4]		
Writer	Use this field to insert the name of the writer for this particular section.	
Section C	A 4 rask Area D: Technical Support on Demographic and Socioeconomic Factors	
	The focus of this task area is to consider gender, age, racial, ethnic, income, and other demographic characteristics that may make some populations more vulnerable to roadway injuries than others.	

FHWA Office of	Safety Research and Development Technical Services Support
	Contractor support for Task Area D will support research to include the
	following topics:
	• Elderly Drivers – to anticipate the safety countermeasures that support the need of a rapidly growing population in the US;
	• Teen Drivers – to develop safety countermeasures that address the specific needs of inexperienced and immature young people and to counter behaviors like alcohol or drug use that can further degrade their performance;
	• Public Health Analysis – to apply statistical approaches that determine geographic areas that are prone to experiencing greater miury and retality risk than an expected baseline. Also, to determine if there are concider refinements to established safety countermeasures that may make them hope effective in minority communities and Tribal Lands;
	• Economic Analysis – to apply principled a anysis to understand contoased factors that can contribute to behaviors that increase risk of injuty or fatality;
	• Drug and Alcohol Social Sautres – to counter behaviors like alcohol or drug use by articulating the influencing metors that lead some to impaired driving;
	• Toward Zero Deaths And type - to observe the effects of TZD programs on varying communities and develop qualitative and quantitative measures of effectiveness based on available data and
	• Safe System Approach a make is – to observe the effects of the applied Safe System Approach in Telivering e polistic perspective in reducing fatal and serious injuries through fault tolerance of human drivers.
Other Informetion	Insert ony other information related to any attachment or annexure.
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## 1.1.5 Task Area E Applied Analytics for Integrated Safety & Operations [C.4.5]

Writer	Us, this field to insert the name of the writer for this particular section.
Section C	C.4.5 Task Area E: Applied Analytics for Integrated Safety & Operations
	The focus of this task area is to develop and sustain the capability for a range of analytical and research techniques that advance the objectives of the Office of Safety R&D, and support analysis in which safety interconnects with other

<ul> <li>Contractor support for Task Area E will support research to include the following topics:</li> <li>Machine Learning and Artificial Intelligence – to advance the application of open source tools that are capable of creating optimization strategies for roadway safety and operations, and may include analyses for the benefit of the Nation's infrastructure owners and operators;</li> <li>Statistical and Numerical Analysis – to advance the number and components of the Nation of the Nat</li></ul>
<ul> <li>open source tools that are capable of creating optimization strategies for roadway safety and operations, and may include analyses of the benefit of the Nation's infrastructure owners and operators;</li> <li>Statistical and Numerical Analysis – to advance the herbematic processes</li> </ul>
applied to various data in order to identify causation of salesy problems and to determine the value of a particular safety countermeasure;
• Data Management – to collect safety claud data from a variety of sources and integrate the data to make it available for users to create new and esis that enables more effective and multicle onlyary safety countermeasures;
• Data Analysis and Visualization – to enable data do every enong disparate sources of data and to provide visual representations of source sets that enable accurate understanding of complex, the driven concepts;
• Driver Assistance and V have Automation – to advance the development of analysis, experimentation, tools and applications that address the safety needs of all road mean reluding, pedestruction bicycrists, micromobility, and motorcyclists; and
• Artificial Data – to levelop an oppromote usage of Realistic Artificial Dataset for undel validation, validation of modern statistical analysis technics and promite development of a ificial datasets for various components of highway system such as untersection., Interchanges, Horizontal and Vertical Alignments, allners benefad users, pedestrians, bicyclists, motorcyclists etc.
Other Insert any other information related to any attachment or annexure.

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## 1.1.6 Task Area F – Preparation and Delivery of Training and Knowledge Transfer [C.4.6]

Writer	Use this field to insert the name of the writer for this particular section.
Section C	C.4.6 Task Area F: Preparation and Delivery of Training and Knowledge Transfer

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal or quotation.
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FHWA Office of	Safety Research and Development Technical Services Support
	The focus of this task area is to facilitate and to measure the effect of research upon adoption by public agencies, other transportation partners in the public and private sector, and the public at large.
	Contractor support for Task Area F will support research to include the following topics:
	• Outcomes and Measures of Effectiveness Development – to articulate (quantitatively and qualitatively) how research and development of the research products;
	• Program Evaluation and Assessment – to determine the value created through components and/or the full portfolio of Office of Safety R&C activity;
	• Training Development and Delivery — a conslate the concepts of eserch, the research activity, the results of adoption and implementation, and the effectiveness of the research activity and training that can be conveyed to a range of audiences with varying technical knowledge.
	• Market Anticipation – to identify bends and events the may be considered for refining the Office of safety R&L Cartfolio; and
	• Research Assistants – to upport in-house research through analysis of large volumes of lab and field correct updata, prepared on of graphs/tables/other types of presentation materia and production of quality research
	reports/technica. part to con municate the research findings to the highway safety research communicate the second
Other Information	Instation of the information related to any attachment or annexure.
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## 1.2 Management Plan

Writer	Use this field to insert the name of the writer for this particular section.
Section L	The technical approach shall also include a <b>management plan</b> , which details how the Offeror will address the requirements of this RFP. The management plan shall include the following:
Other Information	Insert any other information related to any attachment or annexure.

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#### 1.2.1 Organizational Structure, Capability, and Experience

U	
Writer	Use this field to insert the name of the writer for this particular section.
Section L	• Organizational structure, capability, and experience; and
Other	Insert any other information related to any attachment or annexule.
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#### 1.2.2 Organizational Hierarchies, Roles, Responsibilities and Lines of Communication

Writer	Use this field to insert the name of the writer for this particular section.
Section L	• Organizational hierarchies, roles, roles insibilities, and these of communication between team members.
Other Information	Insert any other information related to any at a diment or annexure.

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## 2 PART II – STAFFING PROPOSAL/RESUMES (50 PAGES LIMIT) [L.11.VOL I.PART II]

Writer	Use this fold to insert the name of the writer for this particular section.
Section L	Part H – Stalling Proposal/Resumes
Other Information	Insert any other information related to any attachment or annexure.

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## 2.1 Staffing Approach [M.2.(a).C]

0	
Writer	Use this field to insert the name of the writer for this particular section.

Section L	The Offeror shall provide a <b>staffing approach</b> showing that proposed staff has the relevant experience, education and expertise to successfully perform the work required for this requirement. Additionally, the Offeror shall provide a <b>contingency plan</b> to replace Key Personnel over the life of the contract. The contingency plan must demonstrate that the Offeror can <b>replace key personnel</b> without any adverse impact on performance. As a part of the contingency plan the Offeror must demonstrate their <b>recruitment and hiring plan</b> to fill key positions.
Section M	C. Staffing – FHWA will evaluate staffing to assess the plan's potential efficacy to manage a team with sufficient experience and expertise to accomplish the tasks in Section C; to employ and maintain a technically trained and experienced workforce to satisfy the ID/IQ requirements are provide cleared personnel in a timely manner; to propose successful process(es) for team assignments, team communication monitoring of team performance and conflict resolution; and to propose a plan humansuring the offeror communically improves operating efficiency through process.
Other Information	Insert any other information related to an extrachment or annexure.

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## 2.1.1 Contingency Plan

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## 2.1.1.1 Replacing Key Personnel

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## 2.1.1.2 Recruitment and Hiring Plan

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## 2.2 Resume (2 Page Limit Per Resume) [M.2.(a).B, C.5]

Writer	Use the field to insert the name of the writer for this particular section.
Section L	A result is shall be submitted for all proposed personnel and must be organized an numbered. Resumes shall clearly match the topic area in which the staff member will be utilized and may not exceed two pages. Resumes shall include academic background; technical qualifications; project management; subject matter expertise; relevant project level experience; and professional affiliations, licenses, designations or national committee appointments. Note: After submission of the proposal, but prior to award, there may be no changes to the proposal, other than clarifications, including changes to Key

	Personnel, unless the Government determines holding discussions is in the best interest of the Government.
Section M	B. Key Personnel – FHWA will evaluate the Offeror's ability to provide key personnel with resumes that demonstrate the following: background, education, leadership, training, suitability to the proposed position, applicability of related experience, and special or unique qualifications of the key personnel to implement the offeror's approach to meet requirements and tasks in Section C. FHWA will evaluate the Contractor's plan for key personnel replacement, the ability to provide cleared personnel in a timely manner and the continuity of services during that process.
Section C	C.5 STAFFING To fulfill the requirement, sufficient knowledgeable staff is required. The required skillsets are listed below:
Other Information	Insert any other information related to any attachment or annex are.

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## 2.2.1 Resume Name, Program Manager (Key)

Writer	Use this field to insect the name of the worker for this particular section.
Section C	Program Manager (K.W PERSCUNEL) The program Manager shall be responsible for overall management of the contrast, including quality assurance for all products delivered to the Government and avallability of resources to complete all Task Orders. Program Manager duties include:
	over the nevelopment of program schedules, resource allocation and budgets Tracking the program budgets and providing forecasts, establishing and mai taining program status summaries and metrics for the project patheo;
	• Organize, direct, and manage contract operation support functions, involving multiple, complex and inter-related project tasks;
	• Manage teams of contract support personnel at multiple locations;

FHWA Office of Safety Research and Development Technical Services Support	
	• Maintain and manage the client interface at the senior levels of the client organization; and
	• Meet with customer and Contractor personnel to formulate and review task plans and deliverable items. Ensure conformance with program task schedules and costs.
	The Program Manager shall:
	• Demonstrates experience submitted written documents to the Government and presenting on complex material;
	• Demonstrates experience with increasing responsibility in program management;
	• Possess leadership skills with a collaborative management style that with facilitate interaction with supervisors, colleagues, customers and converte partners;
	• Possess a Bachelor's degree to a relevance chnical or scientific field, or in technical project management; and
	• Possess an active Project Wanager's Professional certification.
Other Information	Insert any other information reason to any availament or annexure.
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## **Summary of Experience**

Mr. McKinney ...

## Academic Background

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

## **Subject Matter Expertise**

#### Department of Transportation Solicitation # 693JJ321R000011 FHWA Office of Safety Research and Development Technical Services Support Professional Affiliations, Licenses, Designations or National Committee Appointments

#### **Relevant Project Level Experience**

*Company, Last Title* Serves as...

*Company, Last Title* Served as...

*Company, Last Title* Served as...

mm/yyyy – Present

mm/yyyy – mm/yyyy

mm/yyyy – mm/yyyy

2.2.2 Resume Name, Senior Transportation Engineer/Planner (Key)		
Writer	Use this field to insert the name of the writer for this particular costion.	
Section C	Senior Transportation Engineer/Planner (KEV RERSONNEL) The Senior Transportation Engineer/Planner is responsible for a fining research opportunities that reveaue around safety countermeasures, their implementation, and their utility to aughout the transponention project life cycle. A thorough understanding of the principals, theory, and practice of multi-modal transportation to the principals, theory, and practice of multi-modal transportation to the phases of the transportation Engineer/Planner shall have experience in the phases of the transportation project life-cycle, and how a fety matters are calceted in each life-cycle stage. Experience/Education Demonstrates on thence with increasing responsibility in multi- modal transportation subjects and possesses a Bachelors of Arts or Sciences degree .	
Other	Insert any other information related to any attachment or annexure.	
Information		

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## **Summary of Experienc**

Mr. McKinney..

## **Academic Background**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

Degree, Subject, School, year (List Bullet style)

Degree, Subject, School, year (List Bullet Last style)

## Project Management Subject Matter Expertise

#### Professional Affiliations, Licenses, Designations or National Committee Appointments

# Relevant Project Level Experience mm/yyyy - Present Company, Last Title mm/yyyy - mm/yyyy Served as... mm/yyyy - mm/yyyy Company, Last Title mm/yyyy - mm/yyyy Served as... mm/yyyy - mm/yyyy

#### 2.2.3 Resume Name, Junior Transportation Engineer/Planner

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Junior Transportation Engineer/Planner The Junior Transportation Engineer/Planner recessionsible for developing and executing result of poportunities that evolve around safety countermeasures, their implementation, and their utility aroughout the transportation project life cycle. A thorough understant moof the principals, theory, and practice of multi-modal transportation planareg is required. The Junior Transportation Engineer/Planner shall have experience in the implementation of safety countermeasures. Experience/Inducational temonstrates experience with multi- modal transportation project, and possesses a Bachelors of Arts or Sciences degree.
Othe Information	Insertany other information related to any attachment or annexure.

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#### **Summary of Experience**

Mr. McKinney...

#### **Academic Background**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

#### **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

#### **Project Management**

**Subject Matter Expertise** 

Professional Affiliations, Licenses, Designations or National Committee Appointment

## **Relevant Project Level Experience** *Company, Last Title*

Serves as...

*Company, Last Title* Served as...

*Company, Last Title* Served as...

## 2.2.4 Resume Name, Program Assessment Specialist (Key)

Writer	Use this field to insert the name on the writer for this particular section.
Section C	<ul> <li>Program Assessment Specialist (KEY PERSONNEL)</li> <li>The Program Assessment Specialist shall be responsible for articulating the value of research activities and for identifying opportunities to accelerate adoption and deployment of research- derived solutions in the marketplace. The brown Assessment Specialist shall focus on the trends and state of the practice and develop considerations on how the Office of Safety research &amp; Development (R&amp;D) can be better aligned with the needs of the stakeholder community, including associations, academic institutions, and local, state, and out or federal agencies.</li> <li>Program Assessment Specialist duties include:</li> <li>Develop program assessment methods and metrics for measuring the value of safety research and development;</li> </ul>

mm/yyyy – mm/yyyy

*mm/yyyy – mm/yyyy* 

mm/yyyy – Present

Firwa Once of Safety Research and Development Technical Services Support	
	• Develop an innovation plan for accelerating adoption of advanced R&D products (e.g., applications for naturalistic driving study data; connected and automated vehicles; countermeasures development and evaluation);
	• Plan, organize, coordinate, evaluate, and arrange engagements with public and private sector safety interests to identify federal R&D needs; and
	• Identify companies whereby Cooperative Research and Development Agreements (CRADAs) with the federal government or other partnering mechanisms are relevant and possible.
	The Program Assessment Specialist shall have:
	• Experience in development and/or application of safety countermeasures;
	• Experience in the application of the A-SUTO Highway Safety Unnual
	• Demonstrates experience with R & D product supption and evaluation; and
	Possess a Bachelors of Artz of Sciences degree.
Other Information	Insert any other information related to are attachment or annexure.

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## Body Text Style Guide Used - start typing her

## **Summary of Experience**

Mr. McKinney...

## Academic Background

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

## **Subject Matter Expertise**

## **Professional Affiliations, Licenses, Designations or National Committee Appointments**

#### **Relevant Project Level Experience**

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## 2.2.5 Resume Name, ITS Principal Investigator

Writer	Use this field to insert the name of the writer for this purioular section.
Section C	<ul> <li>ITS Principal Investigator:</li> <li>The Intelligent Transportation Systems (2.16) Principal Investigate challenssist the Office of Safety R&amp;D in the development of a research portfolio that includes interaction with multi- discusse team enong several FHWA offices. The ITS Principal Investigator chall be demoughly tamiliar with multi-modal ITS concepts, practices, and procedures and have experience on all phases of the ITS life-cycle. The ITS Principal Investigator shall process knowledge on the Connected Vehicle and Automatic chelicle developments as approached by the US Department of Transportation as well as other public, private, and academic sectors.</li> <li>Experience Information: Demonstration experience in leading ITS/Connected Vehicle multi-modal possesses a Bachelors of Arts or Sciences degree.</li> </ul>
Other Information	Insert any other information related to any attachment or annexure.

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Body Text Style Guide Used - start typing here.

## **Summary of Experience**

Mr. McKinney ...

## Academic Background

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

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#### **Subject Matter Expertise**

#### **Professional Affiliations, Licenses, Designations or National Committee Appointments**

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#### **Relevant Project Level Experience**

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#### 2.2.6 Resume Name, Senior Systems Enginee

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Senior Systems Engineer The Senior Systems Engineer shall be responsible for providing support and advice on an experse of software and extendengineering in support of Safety R&D, including leveloppent accused on connected Vehicle and Automated Vehicle research. The Senart particle and the connected Vehicle and Automated Vehicle research. The Senart particle and the systems Engineering Guidebook the ITS. Provide opert advice, consultation, and assistance and apply such explore to the planning, testing, and deployment evaluation of safety-focused software and systems engineering projects. Formulate guidance, standard operating procedures and practices, and systems acceptance for safety- focused research.
Other Information	Insert any other information related to any attachment or annexure.
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## Body Text Style Guide Used – start typing here.

#### **Summary of Experience**

Mr. McKinney...

#### **Academic Background**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

#### **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

#### **Project Management**

**Subject Matter Expertise** 

## Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

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## 2.2.7 Resume Name, Junior Systems Engineer

Writer	Use this field to near the name of the writer for this particular section.
Section C	Junior Systems Engineer Hotophior Systems Engineer shall be responsible for providing support on all aspects of sortware and system engineering in support of Safety R&D, including development focused on Connected Vehicle and Automated Vehicle research. The Junior Systems Engineer shall have demonstrated experience we a systems engineering tools that are applied in transportation, including the National ITS Architecture and the Systems Engineering Guidebook for ITS. The Junior Systems Engineer shall provide assistance to the planning, testing, and deployment evaluation of safety- focused software and systems engineering projects.

	Experience/Education: Demonstrates experience in software or systems engineering projects supporting roadway safety and possesses a Bachelors of Arts or Sciences degree.
Other Information	Insert any other information related to any attachment or annexure.

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#### Body Text Style Guide Used – start typing here.

#### **Summary of Experience**

Mr. McKinney...

## Academic Background

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

## **Subject Matter Expertise**

Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

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## 2.2.8 Resume Name, Crash Modeler/Investigator

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Crash Modeler/Investigator

	The Crash Modeler/Investigator shall provide skill in Finite Element (FE)
	modeling, data collection, data reduction, quality assurance/quality control, and
	management of field collected data. The Crash Modeler/Investigator shall have
	expertise in advance modeling and analysis strategies and techniques to
	develop and validate FE Models of Vehicles and Hardware. The Crash
	Modeler/Investigator shall be able to model/Simulate vehicle and occupant
	safety scenarios, apply models and simulations for the analysis of vehicle
	safety, conduct investigations into occupant risks, and analyze and develop
	systems for physical protection and security. The Crash Moder/Investigator
	shall be able to provide analysis of vehicle crashes that afform the
	understanding of safety countermeasures that are impremented at the roadside
	or in-vehicle. The Crash Modeler/Investigator shall have expertise manalysis
	of nationally recognized data sets like the National Motor Volcele Crash
	Causation Study (NMVSS); the National Adtomotive Safety Sampling
	(NASS); and the Large Truck Crash Carso ion Study (LTCCS).
	Experience/Education: Demonstrates experience in safety and trash malysis
	and possesses a Bachelors of Arts on Sciences decise.
Other	Insert any other information related to any attachment of arc exure.
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## **Summary of Experience**

Mr. McKinney...

## Academic Background

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- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

## **Subject Matter Expertise**

## Professional Affiliations, Licenses, Designations or National Committee Appointments

#### **Relevant Project Level Experience**

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#### 2.2.9 Resume Name, Economist/Behavioral Economist

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Economist/Behavioral Economist The Economist/Behavioral Economist, the table responsible for examining the role of behavior in transportation choices, as trancovering those mean misms, which will "nudge" drivers to making other choices — cognitive psychology related to transportation, including pay-contou-driver insurance finance, mode choice, congestion, and tolking. Experience/Education: Comonstrates experience in transportation related economic analysis, including demonstrated experience considering economic behavior in the context of transportation and safety and possesses a Bachelors of Arts or Sciences degree.
Other Information ***Start typing	Insert any other incomption related to any attachment or annexure.

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## **Summary of Experience**

Mr. McKinney...

## **Academic Background**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

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Subject Matter Expertise

#### Professional Affiliations, Licenses, Designations or National Committee Appointments

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#### **Relevant Project Level Experience**

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## 2.2.10 Resume Name, Research Psychologist/Human Factors Specialist

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Research Psychologist/Human Foctors Specialist The Research Psychologiet/Human Foctors Specialist shall possess demonstrated skill and executive experience in developing complex behavioral research efforts related to vancertation sales and operations; designing and conducting applied behavioral research studies and, applying behavior analysis focused or Executive Theory. This handless behavioral psychology on operant conditioning, run-gourned behavior, une capability to measure how the environment affects behavior
Otler Information	<ul> <li>Experience/Education: Demonstrates experience in research specific to the transportation field including highway safety and operations and possesses a Bachelors of Anton Sciences degree.</li> <li>Insert any other information related to any attachment or annexure.</li> </ul>

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## **Summary of Experience**

Mr. McKinney...

## **Academic Background**

- Degree, Subject, School, year (List Bullet style)
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#### **Technical Qualifications**

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#### **Project Management**

## **Subject Matter Expertise**

## Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

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## 2.2.11 Resume Name, Database Analyst / Administrator

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Database Analys Administra or The Database Analyst Administrator shall be responsible to administer, test and
	implement database solutions salient to the needs of the research portfolio. The Database A portfolio static for shall conform to established data security measure and proceeds to sareguard the data including any PII data. The
$\frown$	Database A calyst/Accountstrator shall define the overall schema for efficient data storage and retrieval, implement optimal querying for analysis, establish
	appropriate oftware requirements for human input and retrieval of data, and employ robust Quality Assurance/Quality Control (QA/QC) procedures to ensure high data quality. The Database Analyst/Administrator shall support work in plying geographical information system (GIS) database, data
	collect in and management and video image processing. The Database A suyst/Administrator shall be capable of exploration and implementation of Big Data approaches, including Cloud Computing, Big Data Hosting, Big Data
	Analytics and Big Data Mining. Experience/Education: Demonstrates experience in database management,
	design, and implementation, including Certified Data Management Professional

	(CDMP) certification or similar certification. Possesses a Bachelors of Arts or Sciences degree.
Other Information	Insert any other information related to any attachment or annexure.

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## **Summary of Experience**

Mr. McKinney...

## Academic Background

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## **Technical Qualifications**

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- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

**Subject Matter Expertise** 

Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

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#### 2.2.12 Resume Name, Data Analytics Specialist

Writer	Use this field to insert the name of the writer for this particular section.
Section C	Data Analytics Specialist

	The Data Analytics Specialist shall possess experience in working with a wide
	array of disparate data to explore complex queries that address the emerging
	needs to improve roadway safety for all users while optimizing for operations,
	planning, infrastructure, etc. The Data Analytics Specialist shall have
	experience with statistical and data management software and hardware
	systems. Develop and apply methods to identify, collect, process, and analyze
	large volumes of surface transportation data to build and enhance products,
	processes, and systems. Conduct data mining and retrieval, and apply statistical
	and mathematical analyses to identify trends, solve analytical problems for
	improving roadway safety and operations, optimize performance, and gather
	intelligence. Create visualizations using a range of tool
	Experience/Education: Demonstrates experience in database prinagement,
	design, and implementation, including industry-recognized configuration like
	Data Science Council of America (DASCA) Certification or singler
	certification. Possesses a Bachelors of Art. O Sciences degree.
Other	Insert any other information related to any attack ment or annexing.
Information	

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## Body Text Style Guide Used - start typing here

## Summary of Experience

Mr. McKinney...

## Academic Background

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## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

## Subject Matter Expertise

## **Professional Affiliations, Licenses, Designations or National Committee Appointments**

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#### Company, Last Title

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#### 2.2.13 Resume Name, Transportation Statistician

Writer	Use this field to insert the name of the writer for this paracular section.
Section C	Transportation Statistician
	The Transportation Statistician shall demonstrate experience with using
	Empirical-Bayes analysis in highway safe's evaluations, and such demonstrate expertise in generalized linear models such as Poisson and negative bino enal models. The Transportation Statistician shall have the ability to independently learn and apply theoretical material instatistics and data mining to solve real- world business problems. This demonstrated ability may include data discovery, gathering, and exploration, process definition research into current
	industry trends, and inter fal benck warkin Experience/Education: D & wastrates experience using accident, highway
	inventory, and traffic data and possesses a Duchelors of Arts or Sciences degree.
Other	Insert any other through tion related to any attachment or annexure.
Information	

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## Body Text Style Guide Used - start typing here.

## **Summary of Experience**

Mr. McKinney...

#### Academic Background

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

## **Project Management**

**Subject Matter Expertise** 

#### **Professional Affiliations, Licenses, Designations or National Committee Appointments**

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#### **Relevant Project Level Experience**

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## 2.2.14 Resume Name, Technology Transfer/Marketing Specialist

Writer	Use this field to insert the name of the writer for this particular ection.
Section C	Technology Transfer/Marketing enecialis The Technology Transfer Marketing enecialist shall have comprehensive knowledge of a body of healering theorem concepts, principles, methods, practices, standards, and/our medures. The Technology Transfer/Marketing specialist shall be able to communicate effectively, both transfer/Marketing specialist shall be able to communicate effectively, both transfer/Marketing specialist shall have a demonstrated ability to develop and presens brief of training, as well as prepare a wide array of communications material. The suchnology Transfer/Marketing Specialist shall also transfer editing anterablishing reports, tech briefs, journal articles, research paper of and protectent in 508 compliance implementations. The Technology transference wetting, communication, and outreach for individual projects as vell as program-level activities. Expendec/Haucation: Demonstrates experience in the development of technology transfer approaches and implementation, including technical outreact materials development for audiences of varying technical depth. Fraesses a Bachelors of Arts or Sciences degree.
Other Information	Insert any other information related to any attachment or annexure.

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Body Text Style Guide Used – start typing here.

#### **Summary of Experience**

Mr. McKinney...

#### Academic Background

- Degree, Subject, School, year (List Bullet style)
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#### **Technical Qualifications**

- Degree, Subject, School, year (List Bullet style)
- Degree, Subject, School, year (List Bullet Last style)

#### **Project Management**

#### **Subject Matter Expertise**

Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

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## 2.2.15 Resume Name, Graduate Student

	e Trunic, Grunnaci
Witer	Use this fold to insert the name of the writer for this particular section.
Section	The Graduate Student shall be an enrolled student in a university program and field of study relevant to roadway safety, including, civil engineering, computer science, systems engineering, economics, mathematics, and/or behavioral sciences.
Other Information	Insert any other information related to any attachment or annexure.

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Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal or quotation. 23 August 2021 Volume I – Technical Proposal Page 29

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#### **Summary of Experience**

Mr. McKinney...

#### Academic Background

- Degree, Subject, School, year (List Bullet style)
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#### **Technical Qualifications**

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- Degree, Subject, School, year (List Bullet Last style)

**Project Management** 

#### **Subject Matter Expertise**

Professional Affiliations, Licenses, Designations or National Committee Appointments

## **Relevant Project Level Experience**

*Company, Last Title* Serves as...

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## 2.2.16 Resume Name, Training Development Specialist

Wilter	Use this field to insert the name of the writer for this particular section.
Section	The Training Development Specialist shall have comprehensive experience in developing adult learning materials that engage transportation professionals for intraactor led and distance learning. The Training Development Specialist shall be able to distill complex research concepts, analyses, and experiments into modules that can empower adult learners to apply the knowledge with confidence.

*mm/yyyy – Present* 

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	Experience/Education: Demonstrates experience in adult learning instruction and instruction tools development and possesses a Bachelors of Arts or Sciences degree.
Other Information	Insert any other information related to any attachment or annexure.

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#### Body Text Style Guide Used – start typing here.

#### **Summary of Experience**

Mr. McKinney...

## Academic Background

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## **Project Management**

## **Subject Matter Expertise**

Professional Affiliations, Licenses, Designations or National Committee Appointments

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## **3** PART III – RISK MITIGATION PLAN (**5** PAGES LIMIT) [L.11.VOL I.PART III, M.2.(A).D]

Writer	Use this field to insert the name of the writer for this particular section.
Section L	Part III – Risk Mitigation Plan

	The proposal shall include an approach to <b>identify contract risks</b> that could negatively impact mission and develop realistic work around or mitigation steps to eliminate or reduce risks to acceptable levels for execution of the ID/IQ and Task Orders.
Section M	D. Risk Mitigation Plan – FHWA will evaluate the adequacy of the approach to identify contract risks that could negatively impact mission and develop realistic work around or mitigation steps to eliminate or reduce risks to acceptable levels.
Other Information	Insert any other information related to any attachment or annexum

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## 3.1 Approach to Identify Contract Risks

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