# 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: delonte.mckinney@dot.go

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 Delonte.McKinney@DOT.GOV and HCFA-22SRI@DOT.GOV.

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

#### **Table of Contents**

| VOLUME I –         | TECHNICAL PROPOSAL [L.11.VOLUME (VOL) I, M.2.(A)]  | 1        |
|--------------------|--|----------|
|                    | – TECHNICAL/MANAGEMENT APPROACH ( <mark>30 PAGES LIMIT</mark> ) [L.11.VOL I.PART I       |          |
| 1.1 UN             | DERSTANDING OF THE REQUIREMENTS AND APPROACH TO ADDRESS THE TASKS [C.4]                  | 2        |
| 1.1.1              | Task Area A – Technical Support on Human Factors [C.4.1]                                 |          |
| 1.1.2              | Task Area B – Technical Support on Vehicle and Equipment Factors [C.4.2]                 | 4        |
| 1.1.3              | Task Area C – Technical Support on Physical Environment Factors [C 4.3]                  |          |
| 1.1.4              | Task Area D – Technical Support on Demographic and Socioeconomic Factors [C.4            |          |
| 1.1.5              | Task Area E – Applied Analytics for Integrated Safety & Operations [C.4.5]               | 6        |
| 1.1.6              | Task Area F – Preparation and Delivery of Training and Knowledge Transfer [C.4.6]        | ' 7      |
| 1.2 MA             | NAGEMENT PLANOrganizational Structure, Capability, and Experience                        | 8        |
|                    | Organizational Structure, Capability, and Experience                                     | 9        |
| 1.2.2              | Organizational Hierarchies, Roles, Responsibilities and Lines of Communication           | 9        |
| 2 PART II          | - STAFFING PROPOSAL/RESUMES (50 PAGES LIMIT) [L.11.VOL I.PART II]                        | 9        |
| 2.1 STA            | AFFING APPROACH [M.2.(a).C]  | 9        |
| 2.1.1              | Contingency Plan   | 10       |
| 2.1.1.             | 1 Replacing Key Personnel  | 10       |
| 2.1.1.             | 2 Recruitment and Hiring Plan  | 10       |
|                    | SUME ( <mark>2 PAGE LIMIT PER RESUME</mark> ) [M.2.(A).B, C.5]                           | 10       |
| 2.2.1              | Resume Name, Program Manager (Key)   | 11       |
| 2.2.2              | Resume Name, Senior Transportation Engineer/Planner (Key)                                | 13       |
| 2.2.3              | Resume Name, Junior Transportation Engineer/Planner                                      | 14       |
| 2.2.4              | Resume Name, Program Assessment Specialist (Key)   |          |
| 2.2.5              | Resume Name, ITS Principal Investigator  | 17       |
| 2.2.6              | Resume Name, Senior Systems Engineer   | 18       |
| 2.2.7<br>2.2.8     | Resume Name, Junior Systems Engineer   | 19<br>20 |
| 2.2.6<br>2.2.9     | Resume Name, Crash Modeler/InvestigatorResume Name, Economist/Behavioral Economist       | 20<br>22 |
| 2.2.9              | Resume Name, Research Psychologist/Human Factors Specialist                              | 22       |
| 2.2.10             | Resume Name, Database Analyst / Administrator  |          |
| 2.2.12             | Resume Name, Data Analytics Specialist   |          |
| 2.2.13             | Resume Name, Transportation Statistician   |          |
| 2.2.1 <del>4</del> | Resume Name, Technology Transfer/Marketing Specialist                                    | 28       |
| 2.2.15             | Resume Name, Graduate Student  |          |
| 2.2.16             | Resume Name, Training Development Specialist   |          |
| 3 PART II          | I – RISK MITIGATION PLAN ( <mark>5 PAGES LIMIT</mark> ) [L.11.VOL I.PART III, M.2.(A).D] | 31       |
| 3.1 API            | PROACH TO IDENTIFY CONTRACT RISKS  | 32       |
|                    |  |          |

# **List of Exhibits**

Exhibit 1-1: Insert Graphic Title Here...... Error! Bookmark not defined.

\*\*\*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\*\*\*

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

Page ii

# 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<br>Information | Insert any other information relation was attachment or annex are.   |

<sup>\*\*\*</sup>Start typing your response here. Once you finally you content delease the tables with instructions\*\*\*

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| Proposal Writer Name             |  |
|----------------------------------|--|
| Title                            |  |
| Relationship to the Organization |  |

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

| Write     | Use this Tela to insert the name of the writer for this particular section.  |
|-----------|--|
| Section L | Part I – Tec nical/Management Approach  The Outror'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<br>Information | Insert any other information related to any attachment or annexure.                                    |

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# 1.1 Understanding of the Requirements and Approach to Address the Tasks [C.4]

| Writer               | Use this field to insert the name of the writer for this particular section.  |
|----------------------|---|
| Section C            | C.4 DETAILED REQUIREMENT  |
|                      | The Contractor shall perform work as detailed in individual task orders. The requirements of individual task orders ill related the following Task Areas. |
|                      | • Task Area A: Technical Sapport on Human Factors.  |
|                      | • Task Area B: Technical Support on Mancle and Equipment Factors;   |
|                      | • Task Area C: Technical up ort on Physical Environment Factors;  |
|                      | • Task Area ( Fechnical Support Demographic and Socioeconomic Factors;  |
|                      | • Task Area E: Approd Anarytos for Integrated Safety & Operations; and  |
|                      | • Tal F: Preparation and Delivery of Training and Knowledge Transfer.   |
|                      | The individual as anders may span more than one of the defined Task Areas.  |
| Other<br>Information | Insert any other information related to any attachment or annexure.   |

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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. |
|------------------|--|
| <b>Section</b> 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 Analysis how motorists interact with the roadway environment and was cues and measures are the most effective in influer ing driver behavior, reated u the Second Strategic Highway Research Noram (SHRP2) Natura Study program;
- Sign Design and Research the max yum distage at which a determ sign can be read, the driver's co rehens of new lalte vative sign symbols, sign conspicuit in the n t-of-y ay, and drive sual behavior in the presence of Changeable ssage Sig
- Human Factors Simulation study dr. comprehension of roadway al conditions, driver comprehension of markings in a range of environment alternative ... tion design and d iver response to traffic signal controls in hicle the roadway and in a
- Situational Awarene's and Incomment to study the degradation of driver in short-duration yet overwhelming circumstances, such as observing pneuver in your oximity or interacting with vehicles that have incidera downstream; and slowed follow
- Pedestria and Bicy ast Safety to study the interactions of pedestrians, bicyclists, and micromobility users with the entire transportation network and ermine bow to achieve visual conspicuity and salience equal to other venic

# Other Information

Insert any other information related to any attachment or annexure.

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# 1.1.2 Task Area B – Technical Support on Vehicle and Equipment Factors [C.4.2]

| Writer            | 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 perhapsive of vehicle-based equipment to accurately detect and warn the driver of poential crash isk actually affects crash activity;  |
|                   | • Event Data Recorder Analysis – to determine the pre-crash wehicle kinematics;   |
|                   | • Naturalistic Driver Study-base Vehicle ata – to cormin the vehicle behavior and its interactions with penviolenment base to operator decisions and external factors, as a ted under SHRP2 Naturalistic Driving Study program; |
|                   | • Crash Causation Studies – to concrehend to large of factors and circumstant caused me for veriles, matorcycles, and large trucks based on crash data and declared crass report and  |
|                   | • Speed Analysis – to study he wariance in speed and alterations to speed limits affect crash incidence.  |
| Other Information | Insert my other afformation related to any attachment or annexure.  |

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

| Writer           | Usa this field to insert the name of the writer for this particular section.  |
|------------------|---|
| <b>Section C</b> | 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 rafety performance of geometric designs;   |
|                      | • Crash Modification Factors – to articulate how a para plar safet countermeasure can reduce the expected number of crash  |
|                      | • Roadway Curvature Analysis – to determine how varying vehicle classifications negotiate curves, and detecting countermeasures over introadway departures;  |
|                      | • Large Scale Vehicle Monitoring and Navieling - provide has resolution of vehicle movements through a large segment of roadway and to define how discrete vehicle movements are in the enced by the geometric design in the subject location; and |
|                      | • Roadway Inventory Databas, RID) – to evelop countermeasures based on the Geographic Information System (GIS), it will be, and crash record data provided in the SID, as created under the SIH RP2 Naturalistic Driving Study program.            |
| Other<br>Information | Invert any other information related to any attachment or annexure.  |

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# 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 | 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. |

|                      | 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 divry and stality risk than an expected baseline. Also, to determine if there are cife refinements to established safety countermeasures that may make them have effective it minority communities and Tribal Lands: |
|                      | • Economic Analysis – to apply principled as a vsis to understand co coased factors that can contribute to behave that increase risk of injuly or fatality;  |
|                      | • Drug and Alcohol Social States — to counter behavers like alcohol or drug use by articulating the influencing lectors hat lead some to impaired driving;   |
|                      | • Toward Zero Deaths And Iya — to observe the effects of TZD programs on varying communities and divelocularitative — a quantitative measures of effectivened and lon available day and  |
|                      | • Safe System Approach and was – to conserve the effects of the applied Safe System Approach in Telivering a holistic perspective in reducing fatal and serva injuries through fault tolerance of human drivers.   |
| Other<br>Information | Insert ony other formation 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 |

| FHWA Office of | Safety Research and Development Technical Services Support  |
|----------------|---|
|                | FHWA programs including, but not limited to, operations, planning, policy, and infrastructure.  |
|                | Contractor support for Task Area E will support research to include the following topics:   |
|                | • 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 of the benefit of the Nation's infrastructure owners and operators;   |
|                | • Statistical and Numerical Analysis – to advance the Numerical processes applied to various data in order to identify causation of sale various and to determine the value of a particular safety countermeasure;  |
|                | • Data Management – to collect safety count data from a variety crow es and integrate the data to make it available for evers to create new and sis that enables more effective and multiple and ary same countermea ures;  |
|                | • Data Analysis and Visualizator—to entire data day very mong disparate sources of data and to provide visor representations of a sets that enable accurate understanding complex, and driven concepts;   |
|                | • Driver Assistance and V his Automatica — to advance the development of analysis, experimentation, tools and application that address the safety needs of all road accompluding, pudestry as bicyclists, micromobility, and motorcyclists; a. d  |
|                | • Artificial Data – to levelop are promote usage of Realistic Artificial Datasets for world validation, varidation of modern statistical analysis technics and promite analogment of artificial datasets for various components of highway system such as intersection, Interchanges, Horizontal and Vertical Alignments, adherent and users, pedestrians, bicyclists, motorcyclists etc. |
| Other<br>Info. | Insert any other information related to any attachment or annexure.   |

| 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 |

|                      | 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 outcomes compare with observed outcomes from real-world deployment of the research products;   |
|                      | • Program Evaluation and Assessment – to determine the Superceated through components and/or the full portfolio of Office of Safety R&L etivity;  |
|                      | • Training Development and Delivery a conslate the concepts a research, the research activity, the results of adoption a limplementation, and all effectiveness of the research activity at training that can be conveyed to a range of audiences with varying technical nowless.   |
|                      | • Market Anticipation – tridentily lends and events the day be considered for refining the Office of efety R&L offolio; and   |
|                      | • Research Assistants – to up ort in-house research through analysis of large volumes of lab and field collection data, preparation of graphs/tables/other types of presentation material and production of quality research reports/technical part and communical of the research findings to the highway safety research communical |
| Other<br>Information | Installary other 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<br>Information | Insert any other information related to any attachment or annexure.  |

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### 1.2.1 Organizational Structure, Capability, and Experience

| Writer               | Use this field to insert the name of the writer for this particular section. |
|----------------------|--|
| Section L            | Organizational structure, capability, and experience; and                    |
| Other<br>Information | Insert any other information related to any attachmera or annexure.          |

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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 parties a section.                           |
|----------------------|---|
| Section L            | • Organizational hierarchies, roles, remansibilities, and ones of communication between team members. |
| Other<br>Information | Insert any other information related to any attackment or annexure.                                   |

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

| Writer            | Use this it id to insert the name of the writer for this particular section. |
|-------------------|--|
| Section           | Part II – Starting Proposal/Resumes  |
| Other Information | Insert and other information related to any attachment or annexure.          |

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

| 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 technolyly trained and experienced workforce to satisfy the ID/IQ requirements of provide cleared personnel in a timely manner; to propose successful process(es) for team assignments, team communication conitoring of team personnance and conflict resolution; and to propose a plan harmsuring the offeror conically improves operating efficiency through process approvement.   |
| Other<br>Information | Insert any other information related to an attachma for annexare.   |

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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]

|           | Tage Limit 1 of Itesame) [IVI21(a)12, Cis]  |
|-----------|---|
| Writer    | Use this field to insert the name of the writer for this particular section.  |
|           |   |
| Section L | are 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<br>Information | Insert any other information relations attackment or annex re.   |

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#### 2.2.1 Resume Name, Program Manager (Key)

| Writer    | Use this field to use name of the there for this particular section.  |
|-----------|---|
| Section C | Program Manager (K. Y PERSC NEL)  The Logs Manager shall be responsible for overall management of the contract, including quality assurance for all products delivered to the |
| C         | Government and availability of resources to complete all Task Orders.  Program Manager duties include:  |
|           | budgets Tracking the program budgets and providing forecasts, establishing and mai taining program status summaries and metrics for the project patterno;                     |
|           | • 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;   |

| FH WA Office of      | The A 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 program management;  |  |
|                      | • Possess leadership skills with a collaborative management style and will facilitate interaction with supervisors, colleagues, customers and contracte partners; |  |
|                      | • Possess a Bachelor's degree relevant echnical scient at field, or in technical project management; and  |  |
|                      | • Possess an active Project Anager's Antessional certification.   |  |
| Other<br>Information | Insert any other information related to any and thent 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 Appointments

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

Company, Last Title

mm/yyyy – Present

Serves as...

Company, Last Title

mm/yyyy – mm/yyyy

Served as...

Company, Last Title

mm/yyyy – mm/yyyy

Served as...

# 2.2.2 Resume Name, Senior Transportation Engineer/Planner (Key)

| Writer               | Use this field to insert the name of the writer for this particular action.  |
|----------------------|--|
| Section C            | Senior Transportation Engineer/Planner (KE RERSONNEL)  The Senior Transportation Engineer/Planner is responsible for offining research opportunities that rever a ground affety conformer dres, their implementation, and their (utility is oughout the transportation project life cycle. A thorough undergoding of the principals, theory, and practice of multi-modal transportation puning is a cuired. The Senior Transportation Engineer/Planner shall have experience in a phases of the transportation project life-cycle, and how sufety matters are callected in each life-cycle stage.  Experience/Education Demonstrates and rence with increasing responsibility in multi-modal transportations ojects; and possesses a Bachelors of Arts or Sciences degree. |
| Other<br>Information | Insertany their information related to any attachment or annexure.   |

<sup>\*\*\*\$</sup> art typing your respects here. Of ce you finalize your content delete the tables with instructions\*\*\*

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

Company, Last Title

Serves as...

Company, Last Title mm/yyyy

Served as...

Company, Last Title mm/yyyy – mm/yyyy

Served as...

# 2.2.3 Resume Name, Junior Transportation Engineer/Planner

| Writer              | Use this field to insert the name of the writer for this pantalar section.  |
|---------------------|---|
| Section C           | The Junior Transportation Engine (Planner to esponsible for developing and executing as a comportunities that a volve around safety countermeasures, their implementation, and their utility to alghout the transportation project life cycle. A thorough anderstands of the principals, theory, and practice of midis-modal transportation plantage is required. The Junior Transportation Engine (Planner shall have experience in the implementation of safety countermeasures).  Experience/I ducation Lemonstrates experience with multi-modal transportation project, and possesses a Bachelors of Arts or Sciences degree. |
| Othe<br>Information | Insulany 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...

mm/yyyy - Present

#### **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**

Company, Last Title

Serves as...

Company, Last Title

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Company, Last Title

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mm/yyyy – Present

mm/yyyy – mm/yyyy

mm/yyyy – mm/yyyy

# 2.2.4 Resume Name, Program Assessment Specialist (Key)

| Writer    | Use this field to insert the name of the writer for this particular section.  |
|-----------|---|
| Section C | Program Assessment Special at (KEY PERSONNEL)  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 marketplace and the specialist shall focus on the trends and state of the practiculand develop considerations on how the Office of Safety research & Development (R&D) can be better aligned with the needs of the stakeholder sommunity, including associations, academic institutions, and local, state, and other federal agencies.  Program Assessment Specialist duties include:  • Develop program assessment methods and metrics for measuring the value of safety research and development; |

|                      | 1 11  |
|----------------------|---|
|                      | • 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 AANTO Highway Safety Mulal   |
|                      | • Demonstrates experience with R of product apption and evaluation; and   |
|                      | Possess a Bachelors of Arte of Sciences degree.   |
| Other<br>Information | Insert any other information related to are attachment of 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**

Company, Last Title mm/yyyy – Present

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#### 2.2.5 Resume Name, ITS Principal Investigator

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|----------------|--|
| Writer         | Use this field to insert the name of the writer for this particular section.   |
| Section C      | The Intelligent Transportation Systems (10) Principal Investigate chall assist the Office of Safety R&D in the development of a research portfolio cat includes interaction with multi-discusse teams among severa FHWA offices. The ITS Principal Investigator chall be amoughly emiliar with multi-modal ITS concepts, practices, and presidures are have experience in all phases of the ITS life-cycle. The IVS Principal Investigator shall process knowledge on the Connected Vehicle and Automatic chicle developments as approached by the US Department of Transportation as well as other public, private, and academic sectors.  Experience a mation: Demonstrate experience in leading ITS/Connected Vehicle multi-mada anxiect management and possesses a Bachelors of Arts or Sciences degree. |
| Other          | Instantial of the information 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**

Relevant Project Level Experience Company, Last Title

Serves as...

Company, Last Title

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Company, Last Title

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mm/yyyy – Present

mm/yyyy – mm/yyyy

mm/yyyy – mm/yyyy

# 2.2.6 Resume Name, Senior Systems Engineer

| Writer               | Use this field to insert the name of writer for this partial ar section.   |
|----------------------|--|
| Section C            | The Senior Systems Engineer shall be responsive for providing support and advice on an accuracy of software and extendengineering in support of Safety R&D, including level ament incused a Connected Vehicle and Automated Vehicle research. The Senior of tems Engineer shall be thoroughly knowledgeable of systems engineering tools that are applied in transportation, including the National In S. Architecture and the Systems Engineering Guidabook of ITS. Provide Apert advice, consultation, and assistance and apply such explains to the planning, testing, and deployment evaluation of safety-found software and systems engineering projects. Formulate guidance, standard operating procedures and practices, and systems acceptance for safety-focused research.  Experience/Faucation: Demonstrates experience in leading software or systems engineering projects supporting roadway safety and possesses a Bachelors of Arts or ociences degree. |
| Other<br>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**

Company, Last Title
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mm/yyyy – Present

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Company, Last Title mm/yyyy – mm/yyyy Served as...

# 2.2.7 Resume Name, Junior Systems Engineer

| Writer    | Use this field to have the name of the writer for this particular section.  |
|-----------|---|
| Section C | Junior Systems Engineer  The Unior Systems Engineer shall be responsible for providing support on all aspects of software 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 with 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<br>Information | Insert any 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 Appointments

# Relevant Project Level Experience

Company, Last Title mm/yyyy – Present Serves as...

Company, Last Title mm/yyyy – mm/yyyy

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Company, Last Title mm/yyyy – mm/yyyy

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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 Modeler/Investigator shall be able to provide analysis of vehicle crashes that inform the understanding of safety countermeasures that are impresented at the roadside or in-vehicle. The Crash Modeler/Investigator shall have pertis manalysis of nationally recognized data sets like the National Motor cle Crash Causation Study (NMVSS); the National Automotive Safety npling (NASS); and the Large Truck Crash Cartion Study (LTCCS). Experience/Education: Demonstrates experies in safety and trash malysis and possesses a Bachelors of Ar

# Other Information

Insert any other information related to any attachment of arrevure

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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 Appointments**

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

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Company, Last Title mm/yyyy – mm/yyyy

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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 And be responsible for examining the role of behavior in transportation choices, and incovering those medianisms, which will "nudge" drivers to make the fer choices—cognitive psychology related to transportation, including pay-accound recipient insurance chance, mode choice, congestion, and tolking.  Experience/Education: Compostrates reference 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       | Insert any other time at a tion related to attachment or annexure.   |
| Information |  |

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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 Appointments**

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

Company, Last Title

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Company, Last Title
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#### 2.2.10 Resume Name, Research Psychologist/Human Factors Specialist

| Writer               | Use this field to insert the name that the field to insert the name that the state of the state |
|----------------------|---|
| Section C            | Research Psychologist/Human Foors Specialist shall possess demonstrated skill and extensive experience in developing complex behavioral research efforts related to tank ortation sales and operations; designing and conducting applied behavioral research studies and, applying behavior analysis focused or Extensive Theory. This has less behavioral psychology on operant conditioning, run-general delayior, accapability to measure how the environment affects behav.  Expensee/Education: Exmonstrates experience in research specific to the  |
| Otler<br>Information | transportation field includes Lighway safety and operations and possesses a Bachelors of Automotion Sciences degree.  Insert any 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 Appointments

**Relevant Project Level Experience** 

Company, Last Title

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# 2.2.11 Resume Name, Database Analyst Administrator

| Writer           | Use this field insert the name of the writer of this particular section.         |
|------------------|--|
| <b>Section C</b> | Database Analys As istra 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 Analyst/Administrator shall conform to established data security        |
|                  | measure and processes to sareguard the data including any PII data. The          |
|                  | Database A alyst/Administrator shall define the overall schema for efficient     |
|                  | data stora, e and retrieval, implement optimal querying for analysis, establish  |
|                  | appropriate oftware requirements for human input and retrieval of data, and      |
|                  | employ robus Quality Assurance/Quality Control (QA/QC) procedures to             |
|                  | ensure gh cata quality. The Database Analyst/Administrator shall support         |
|                  | work in living geographical information system (GIS) database, data              |
| •                | collection and management and video image processing. The Database               |
|                  | A. ayst/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<br>Information | Insert any 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 Appointments

#### Relevant Project Level Experience

Company, Last Title mm/yyyy – Present

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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 transportation. Create visualization including industry-recognized confication like Data Science Council of America (DASC). Certification or single certification. Possesses a Bachelors of Arts of Sciences degree. |
| Other       | Insert any other information related to attack and or annex re.  |
| Information |  |

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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 Qualification**

- 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**

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 particular section.   |
|----------------------|--|
| Section C            | Transportation Statistician shall demonstrate experience with using Empirical-Bayes analysis in highway safety evaluations, and so it demonstrate expertise in generalized linear models sacross Poisson and negative binocual models. The Transportation Statistician share two the ability to indecadently learn and apply theoretical material motatistics and data mining to solve real-world business problems. This remonstrated ability may include data discovery, gathering, and expression, process definition, research into current industry trends, and interval bencampakin  Experience/Education: December exprience using accident, highway inventory, and traffic data in cossesses a machelors of Arts or Sciences degree. |
| Other<br>Information | Insert any other than tion related to 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 Appointments

**Relevant Project Level Experience** 

Company, Last Title

mm/yyyy – Present

Serves as...

Company, Last Title

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Company, Last Title
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2.2.14 Resume Name, Technology Transfer/Marketing Specialist

| Writer               | Use this field to insert the name that the field to insert the name that the state of the state |
|----------------------|---|
| Section C            | The Technology Transfer Marketing a scialist shall have comprehensive knowledge of a body of hear sting theory, concepts, principles, methods, practices, standards, and/o proodures.  The Technology Transfer/Marketing specialist shall be able to communicate effectively, both oracloud in writing, a Shall have a demonstrated ability to develop and present briefly and training, as well as prepare a wide array of communications material. The schnology Transfer/Marketing Specialist shall also coass working knowledge of Communication Reference Guide (CRG) requirement for editing and proficient in 508 compliance implementations. The Technology transfer marketing Specialist shall have experience creating and implementing plans for marketing, communication, and outreach for individual projects as well as program-level activities.  Expensive/Faucation: Demonstrates experience in the development of technology transfer approaches and implementation, including technical outreach materials development for audiences of varying technical depth. Processes a Bachelors of Arts or Sciences degree.   |
| Other<br>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**

Company, Last Title
Serves as...

mm/yyyy – Present

Company, Last Title
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mm/yyyy – mm/yyyy

#### 2.2.15 Resume Name, Graduate Student

| Writer      | Use this field 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 scence, systems engineering, economics, mathematics, and/or behavioral sciences. |
| Other       | Insert any other information related to any attachment or annexure.  |
| Information |  |

<sup>\*\*\*</sup>Start typing your response here. Once you finalize your content delete the tables with instructions\*\*\*

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**

Company, Last Title
Serves as...

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Company, Last Title

mm/yyyy – mm/yyyy

Served as...

#### 2.2.16 Resume Name, Training Development Specialist

| Wilter  | Use this field to insert the name of the writer for this particular section.  |
|---------|---|
| Section | Dev Epment Specialist   |
|         | The Training Development Specialist shall have comprehensive experience in developing adult learning materials that engage transportation professionals for in factor 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. |

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

<sup>\*\*\*</sup>Start typing your response here. Once you finalize your content delete the tables with instructions\*\*\*

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

Company, Last Title
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Company, Last Title mm/yyyy – mm/yyyy

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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  |

mm/yyyy – Present

| , 11                 |   |
|----------------------|---|
|                      | 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<br>Information | Insert any other information related to any attachmentar annexure   |

<sup>\*\*\*</sup>Start typing your response here. Once you finalize your content delete the tables with instructions\*\*\*

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# 3.1 Approach to Identify Contract Risks

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