**NORTHLAND ADVANCED TRANSPORTATION SYSTEMS RESEARCH LABORATORY**

**FY 2012 RESEARCH PROJECT PROPOSAL**

***Please complete the following information. Maximum proposal length is 10 pages, not including resumes.***

**1. Research Project Title:**

**2. Principal Investigator Information:**

Name:

Department:

Position Title:

Address:

Phone:

FAX:

E-Mail:

**3. Mn/DOT or other Agency Key Personnel Information:** *Identify cooperators for this project.*

*Provide the state or federal agency, industry or other organizations and list the individual names.*

Name:

Department/Affiliation:

Position Title:

Role on Project:

Address:

Phone:

FAX:

E-Mail:

**4. Proposal Abstract:**

*A brief (maximum 200 words) description of the research project*

**5. Anticipated Duration of Project (in months)**

**6. Budget Details (direct costs only):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|   | Number of Pay Periods | Total Dollars Requested |
|   | Academic Yr | % | Summer | % | Salary Request | Fringe | Total $ |
| Faculty |   |   |   |   |   |   |   |
| P/A Staff |   |   |   |   |   |   |   |
| RA |   |   |   |   |   |   |   |
| UGRA |   |   |   |   |   |   |   |
| Civil Service |   |   |   |   |   |   |   |
| Sub Total |   |   |   |   |   |   |   |
|  |  |  |  |  |  |  |  |
|   | Budget Detail | Total $ |
| Equipment (up to $2,499) |   |   |
| Equipment ($2,500 up) |   |   |
| Supplies |   |   |
| Travel |   |   |
| Subcontracts |   |   |
| Other |   |   |
|   |   |
|   |   |
|   |   |
| Sub Total |   |   |
|  |  |  |
| Total Budget |   |   |

## 7. Budget Justification:

## *Please provide justification for equipment, supplies, travel and any sub-contractual arrangements. All foreign travel must be detailed with a specific explanation on how the trip will support the project. Each foreign trip must be approved ahead of time by the Principal Investigator, Program Director, ITS Institute and RITA, US DOT.. Additionally, all sub-contracted efforts must be handled in accordance with University of Minnesota Policy Directives. (*[*www.fpd.finop.umn.edu/*](http://www.fpd.finop.umn.edu/)*)*

**8. Matching Funds and/or Other Partnership Contribution:** *Identify matching funds, in-kind or other contributions that will be made in support of this research. List sources and amounts.*

**9. Research Objectives:** *Concisely describe the objectives or goals of the project. Include expected*

*outcomes and deliverables. What impact will be made as a result of this research?*

**10. Summary of Previous Work related to This Proposed Research:** *Describe any information on the PI’s previous work pertinent to this proposed research. Also include background information relevant to the research described in this proposal.*

**11. Literature Search/Review:** *Include an overview of literature search and review results. Describe how the proposed project relates to other similar research and development activities.*

**12. Expected Benefits and Users of this Research:** *What benefits are anticipated, why are they*

*important, and how will they be measured? Who will use the results of this research?*

**13. Summary of Research Methodology:** *Provide an overview of your proposed research*

*methodology. Explain why your methodology is unique in the proposed field.*

**14. Tasks**

*List and describe the major tasks necessary to complete the project. For each task, list deliverables (reports, test results, maps, software, etc.) from the task and estimated duration of time to complete the task.*

**Task 1: (title of Task 1)**

 **(**Short description of Task 1)

Deliverable: (summary reports, software, etc.)

Duration: xx months

*Use the following language for the last task of the work plan:*

**Task #: Draft and Final Report Completion:** A draft final report will be prepared following the ITS Institute publication guideline to document project activities, findings and recommendations. This report will be submitted through the publication process for technical and editorial review. A revised final report incorporating the review comments will be prepared and submitted for publication.

 Deliverable: Draft and final reports

 Duration: x months

**15. Project Schedule**

*Include project schedule as shown here.*

|  |
| --- |
| TASK MONTH Jul…Aug…Sep…Oct…Nov…Dec…Jan…Feb…Mar…Apr…May…Jun…Title of task 1 xxxxxxxxTitle of task 2 xxxxxxxxxxxxxxxxxxxxxTitle of task 3 xxxxxxxxxxTitle of task n xxxxxxxxxxxxxxxxxxxx |

**16. Agency Assistance :** *If the project requires specialized help or input including data, materials, equipment, facilities, etc., list the agency, type of assistance requested, and contact person, if known.*

**17. Key Words***: List key words used in your proposal submission, approximately 2 – 10.*

**18. Resumes:** *Attach resumes for PI and key personnel. . Maximum length = 2 pages per person.*