

# Request for Proposal SHRP 2 Safety Data Phase 1

**Area:** Safety Data Oversight and Implementation, Phase 1

**Project Number:** SD03

**Project Title:** SHRP 2 Naturalistic Driving Study Data Participant Disclosure Risk Assessment and Management Strategy for Public Use Datasets

**Date Issued:** July 14, 2015

## Statement of Work

### Background

The second Strategic Highway Research Program (SHRP 2) Naturalistic Driving Study (NDS) collected driver performance and in-vehicle data from over 3900 volunteer participants in 6 sites across the United States. The resulting Safety Database contains data for 5.5 million trips covering over 30 million miles. The goal of the first phase of data use (Phase 1) is to make this data widely available to qualified researchers.

Data collected during the study are *original data*, which include video, time-series data, other sensor data (alcohol sensor, audio records from activation of critical incident button), driver assessments, and crash investigations. These data are available for research use under a data license agreement designed to protect participant confidentiality; however, original data must be expunged no later than 30 or 40 years (depending on the data element) after data collection. Original data that has been processed to prevent the participants' identity from being disclosed are considered *de-identified data*. Common strategies for de-identifying datasets include deleting or masking personal identifiers, such as name and social security number or face photos, and suppressing or generalizing quasi-identifiers, such as date of birth and zip code.

In order to make NDS data more readily available to the research community, TRB is exploring the possibility of producing *Public Use Datasets* (PUDs) that have been both de-identified and cleansed of original data (to avoid having to track and destroy any original data). PUDs would be made publicly available to researchers via such means as posting on the Internet for download under an open source data license.

### Project Objectives, Tasks, and Deliverables

In order to ensure participant confidentiality is maintained, this statement of work is intended to engage an organization experienced in disclosure risk assessment of human subjects study data to assess the potential for SHRP 2 NDS participant's identity to be determined through use or manipulation of potential SHRP 2 PUDs, either stand-alone, in combination, or when fused with external sources of information.

### Task 1: Establish Criteria for Assessing the Identification Risk of SHRP 2 PUDs

- Review the content of the SHRP 2 Safety Database (e.g., data dictionaries, database structure, original and de-identified datasets) to evaluate and catalogue the direct and indirect identifiers present
- Consult with the SHRP 2 Safety Database Operator to understand the anticipated content and usage of potential PUDs derived from the SHRP 2 Safety Database
- Engage the stakeholder community to understand the value of potential PUDs and establish quantitative criteria for assessing utility
- Consider the potential for indirect identifiers which may be present in the potential PUDs to lead to the inadvertent identification of study participants by researchers using the PUDs or to enable intentional identification by malicious entities
- Establish quantitative criteria for assessing the identification risk level of specific candidate PUDs under both circumstances

#### Deliverables (task report and presentation to the Safety Database Operator and TRB staff)

- A comprehensive set of rating criteria for use by the Safety Database Operator when considering any particular dataset derived from the SHRP 2 Safety Database for potential PUD status
- A classification scheme associating identification risk levels with various combinations of criteria values and a risk / utility framework for assessing potential PUDs
- A documented set of techniques for use by the Safety Database Operator to lower the identification risk of any specific data set under consideration for PUD status while maintaining the utility of the dataset
- An assessment of the longevity of the risk / utility framework and risk mitigation techniques proposed including the need for periodic refresh

### Task 2: Assess the Identification Risk of Potential SHRP 2 PUDs

- Work with the Database Operator to select a representative cross section of potential SHRP 2 PUDs (current / anticipated) for evaluation
- Using the criteria established in Task 1, conduct a review of the candidate PUDs selected to assess their utility and the potential for researchers using the database to inadvertently identify participants during the course of their research as well as the potential for malicious identification
- Suggest specific mitigation techniques to lower the identification potential of high-value datasets found to be at risk and work with TRB staff and an Expert Task Group to select approaches of interest.
- Apply the techniques selected to the representative cross section of potential PUDs and evaluate the reduction in identification risk achieved. To the extent feasible consider a range of possible actions and the risk / utility tradeoff involved.

Deliverables (task report and presentation to Safety Database operator and TRB staff)

- Completed examination of three to four dataset documenting their utility and identification risk under inadvertent and malicious circumstances using the proposed risk / utility framework
- Recommendation of specific steps applicable to each dataset to mitigate its identification risk
- Assessment of the efficacy of applying the recommended techniques to the selected PUDs and an assessment of the risk / utility tradeoff
- Evaluation of additional candidate PUDs as time and funding permits

Task 3: Provide Recommendations for Managing the Content of SHRP 2 PUDs

- Incorporate knowledge gained from Task 2 and guidance provided by TRB staff to finalize an actionable set of recommendations for the Safety Database Operator to apply when considering and managing PUDs created from the SHRP 2 Safety Database
- Summarize the findings of the disclosure risk analysis and recommendations for the generation and use of PUDs derived from the SHRP 2 Safety Database
- Present the study findings and recommendations to the SHRP 2 Safety Data Oversight Committee (see Special Note 1)

Deliverables (in presentation and report format)

- Final report documenting the results of the identification risk analysis of candidate SHRP 2 Safety PUDs including:
  - a comprehensive set of evaluation criteria for assessing candidate PUD risk and utility
  - a classification scheme associating criteria values with levels of risk and a risk / utility framework for assessing potential PUDs
  - a range of techniques for mitigating risk and maintaining an effective risk mitigation scheme during Phase 1 and afterward, including the need to periodically refresh the risk / utility analysis
  - an assessment of the cost / benefit tradeoff involved and a recommendation for a specific approach to PUD disclosure risk mitigation
- Presentation of the study format and key findings to the Safety Database Operator and TRB staff and subsequently to the Safety Database Oversight Committee

**Funds Available:** Total budget not to exceed \$125,000

**Contract Period:** Up to six (6) months from the date of a fully executed contract.

**Anticipated contract award:** September 8, 2015 (estimated)

**Responsible Staff:** David J. Plazak, dplazak@nas.edu, 202-334-1834

**Authorization to Begin Work:** September 8, 2015 (estimated)

**Proposals (in Microsoft Word and PDF formats) are due by electronic mail not later than 4:30 p.m. Eastern time on August 11, 2015. (Four weeks response time). No printed versions of the proposal are required for this RFP.**

This is a firm deadline, and extensions simply are not granted. In order to be considered, the agency's proposal, accompanied by the executed, unmodified Liability Statement must be in our offices not later than the deadline shown, or it will be rejected.

### **Delivery Contact**

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### **Liability Statement**

The signature of an authorized representative of the proposing agency is required on the unaltered statement in order for TRB to accept the agency's proposal for consideration. **Proposals submitted without an electronic version this executed and unaltered statement by the proposal deadline will be rejected.** An executed, unaltered statement indicates the agency's intent and ability to execute a contract that includes the provisions in the statement. An electronic copy (PDF) of the Liability Statement is included in the proposal guide attached to this transmittal. A free copy of the Adobe Acrobat PDF reader is available at <http://www.adobe.com>.

### **General Notes**

1. According to the provisions of Title 49, Code of Federal Regulations, Part 21, which relates to nondiscrimination in federally assisted programs, all parties are hereby notified that the contract entered into pursuant to this announcement will be awarded without discrimination on the

grounds of race, color, religion, sex, national origin, or disability.

2. A guide to preparing proposals and reports is attached in PDF format. Please follow the guidelines in preparing your proposal. The proposal should be brief but thorough enough to clearly address the tasks.
3. The total funds available are made known in the project statement, and line items of the budget are examined to determine the reasonableness of the allocation of funds to the various tasks. Budget totals proposed as well as the value provided in relation to the budget proposed may be considered in evaluating proposals received.
4. All proposals become the property of the Transportation Research Board. Final disposition will be made according to the policies thereof, including the right to reject all proposals.

#### Special Notes

1. The Safety Data Oversight Committee is a volunteer group of experts selected appointed by TRB to provide program management guidance and oversee the operation of Phase 1.
2. Proposers should be very familiar with the structure and elements contained in the Naturalistic Driving Study data. For information, consult: <https://insight.shrp2nds.us/home>
3. Proposals submitted by or including as team members current contractors of the “Phase 1” safety data program will not be considered for this project. This includes contracts SD01 and SD02 and any other executed or pending consulting contracts.

### IMPORTANT NOTICE

**Potential proposers should understand that the research project described herein is tentative. The final content of the program depends on the level of funding made available. Nevertheless, to be prepared to execute research contracts as soon as possible after sponsors’ approvals, the Transportation Research Board is assuming that the tentative program will become official in its entirety and is proceeding with requests for proposals and selections of research agencies.**

**Figure 1**  
**Strategic Highway Research Program 2**  
**Liability Statement**  
Revised May 2006

Project \_\_\_\_\_

Fiscal Year \_\_\_\_\_

The signature of an authorized representative of the responding agency is required on the following unaltered statement in order for the TRB to accept the agency's response for consideration. **Responses submitted without this executed and unaltered statement by the response deadline will be summarily rejected.** An executed, unaltered statement indicates the agency's intent and ability to execute a contract that includes the provisions below.

Proposing Agency: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**CONTRACTOR LIABILITY**

- (a) The parties agree that the contractor and its employees and agents ("Contractor") will be primarily responsible for performing the work required under the contract, and shall therefore be legally responsible for, and shall indemnify and hold the Academy harmless for all claims asserted against the Academy, its committee members, officers, employees, and agents, by any third parties, whether or not represented by a final judgment, if such claims arise out of or result from Contractor's negligent or wrongful acts in performing such work, including all claims for bodily injury (including death), personal injury, property damage, and other losses, liabilities, costs, and expenses (including but not limited to attorneys fees).
- (b) With respect to entities of State government that are subject to State law restrictions on their ability to indemnify and hold harmless third parties ("Restricted State Entities"), the obligation to indemnify and hold harmless the Academy in Paragraph (a) shall apply to the full extent permitted by applicable State law. In addition, each Restricted State Entity executing this contract represents and warrants that no part of any research product or other material delivered by such Restricted State Entity to the Academy ("Work Product") shall include anything of an obscene, libelous, defamatory, disparaging, or injurious nature; that neither the Work Product nor the title to the Work Product will infringe upon any copyright, patent, property right, personal right, or other right; and that all statements in the Contractor's proposal to the Academy and in the Work Product are true to the Contractor's actual knowledge and belief, or based upon reasonable research for accuracy.
- (c) The term "wrongful act" as used herein shall include any tortious act or omission, willful misconduct, failure to comply with Federal or state governmental requirements, copyright or patent infringement, libel, slander or other defamatory or disparaging statement in any written deliverable required under the contract, or any false or negligent statement or omission made by Contractor in its proposal to the Academy.
- (d) The obligations in paragraph (a) of this clause to indemnify and hold harmless the Academy shall not extend to claims, damages, losses, liabilities, costs, and expenses to the extent they arise out of the negligent or wrongful acts or omissions of the Academy, its committee members, officers, employees, and agents.
- (e) Both the Academy and Contractor shall give prompt notice to each other upon learning of the assertion of any claim, or the commencement of any action or proceeding, in respect of which a claim under this paragraph may be sought, specifying, if known, the facts pertaining thereto and an estimate of the amount of the liability arising therefrom, but no failure to give such notice shall relieve the Academy

or Contractor of any liability hereunder except to the extent actual prejudice is suffered thereby.

- (f) The Academy and Contractor agree to cooperate with each other in the defense of any claim, action, or legal proceeding arising out of or resulting from Contractor's performance of the work required under this contract, but each party shall control its own defense. The Academy shall also have the option in its sole discretion to permit Contractor or its insurance carrier to assume the defense of any such claims against the Academy.
- (g) The obligations under this clause survive the termination, expiration, or completion of performance under this contract.



# A Manual for Conducting Research and Preparing Proposals for SHRP 2



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## I. PROGRAM OVERSIGHT AND GOVERNANCE

### **Administration**

SHRP 2 is administered by means of a three-tiered structure of volunteer committees: an Oversight Committee, Technical Coordinating Committees (TCCs), and Expert Task Groups (ETGs). The SHRP 2 Oversight Committee is responsible for (1) evaluating and selecting research topics, (2) setting project priorities and recommending funding levels, (3) ensuring the dissemination of research results, (4) evaluating program effectiveness, and (5) selecting contractors based on recommendations from the ETG.

These committees are supported by the staff of the TRB acting as Secretariat to the SHRP 2 Oversight Committee. The TRB is responsible for technical review and acceptance of research projects that are referred by the SHRP 2 Oversight Committee to the National Research Council (NRC) for acceptance and approval. The TRB is a unit of the NRC, which serves the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine. Following project approval, the TRB administers the performance of individual research projects.

The TCCs are responsible for (a) developing an operational plan for the attainment of research objectives, including estimates of total cost and time requirements; (b) reviewing progress of research; (c) providing guidance regarding technical aspects of the research; (d) reviewing and evaluating project reports (including the final report) as to the accomplishment of objectives and suitability for publication; and (e) making recommendations regarding continuation of studies.

TCC membership is reported in the TRB Online Directory and includes persons from federal, state, and local government agencies; universities; national associations; institutions with related interests; industry; and other agencies. Members are appointed as individuals with expertise in specialized areas and not as representatives of the organizations that employ them. SHRP 2 uses clearly established TRB procedures for balancing bias and avoiding organizational conflicts of interest.

TCC members do not act as individual consultants or advisors to research agencies. TCCs do not prepare requests for proposals (RFPs) nor do they review research proposals. Therefore, TCC members may submit proposals for SHRP 2 research or participate in teams that propose. However, if a TCC member wins an award or is part of a winning team, he or she must step down from the TCC to avoid being in a position of reviewing and evaluating his or her own work.

Expert Task Groups are established after the SHRP 2 projects are approved by the Oversight Committee; typically, one ETG is formed for each SHRP 2 project or a small group of related projects. ETG responsibilities include: (a) drafting definitive statements of objectives for research projects within the time and funds allocated; and

(b) reviewing research proposals and making recommendations regarding selection of research agencies. ETG members may not participate in proposals for the projects for which they are responsible. If a research proposal is received that occasions a conflict of interest for an ETG member, that member must step down from the ETG and will not be permitted to review any proposals for that project. Once an award is made for a research project, the corresponding ETG is disbanded.

## II. CONDUCTING SHRP 2 RESEARCH

### **Annual Research Work Program**

A research work program to be administered under SHRP 2 is referred annually to the National Research Council by the SHRP 2 Oversight Committee. The annual work program consists of a group of somewhat detailed statements of research objectives and anticipated task statements for projects designed to advance the objectives of the SHRP 2 focus areas.

### **Research Projects**

Following acceptance of each annual work program by the Oversight Committee, ETGs are convened to prepare requests for proposals (RFPs) that describe the specific objectives and anticipated research tasks for each research project. After the RFPs have been developed, they are posted during the solicitation period at <http://www.trb.org/shrp2>. Research agencies and individuals may also receive e-mail notification of new postings by subscribing to the free TRB e-newsletter. To subscribe, send an e-mail to [RHouston@nas.edu](mailto:RHouston@nas.edu).

Issuance of an RFP does not constitute an award commitment by SHRP 2 or NRC nor does it obligate the NRC to pay for costs incurred in the preparation and submission of a proposal.

### **Proposals/Contract Award**

In response to SHRP 2 RFPs, any interested agency or individual may submit a proposal following a self-appraisal of qualifications to determine whether or not the respondent possesses, either singly or through a joint venture with others, the requisites of capability and experience necessary to ensure successful completion of the research project. In the instances of joint ventures, a prime contractor must be designated. It is generally required that prime contractor will carry out more than 50 % of the work (budgeted cost). Because of the size and complexity of many of the SHRP 2 research contracts, circumstances may arise where no member of a joint venture performs more than 50% of the work or that the research leadership tasks use a smaller portion of the budget than do other tasks such as data collection, coding, or hardware development. When such circumstances arise, justification for waiver of the 50% requirement should

be included in the proposal. All parties included in the joint venture must concur with the designation of the prime contractor. Proposals become the property of SHRP 2, are treated as privileged documents, and are disposed of according to Program policies (this includes the possibility that all proposals might be rejected).

SHRP 2 research may be conducted by consultants, academic institutions, industry, research institutions, foundations, or others who possess extensive, demonstrated capability coupled with a proven experience record in the problem area. Non-U.S. agencies may submit proposals. Although they may be able to document that they possess sufficient depth of knowledge of U.S. practice, the complicated logistics involved in surveillance and administration of contracts overseas might make it less likely that such agencies would be selected. Joint ventures or collaborations among U.S. and non-domestic research entities are also permissible.

The TRB encourages participation of small businesses, minority-owned firms, and women's business enterprises as contractors or subcontractors for SHRP 2 projects.

The total funds available are made known in the RFP, and line items in the proposed budget are examined to determine the reasonableness of the allocation of funds to the various tasks. If the proposed total cost exceeds the funds available, the proposal is rejected. In general, proposals that provide for cost sharing at a proposed total cost over and above the total funds available are not encouraged, and the evaluation will be based on the work proposed to be conducted with the SHRP 2 advertised funds. From time to time, SHRP 2 may issue RFPs that specifically encourage or even require cost sharing. Such exceptions will be clearly indicated in the RFP.

It is emphasized that SHRP 2 procedures do not provide for pre-proposal briefings or for meetings with staff and ETGs during proposal evaluation or agency selection, unless specifically stated otherwise in the RFP. The proposal, therefore, constitutes the one-and-only opportunity for the agency to state its case.

Acceptable proposals are forwarded to the appropriate ETGs for review and evaluation. Recommendation for selection of an agency is made to the SHRP 2 Oversight Committee by the responsible ETG considering the following factors: (1) the proposer's demonstrated understanding of the problem; (2) the merit of the proposed research approach and methodology; (3) experience, qualifications, and objectivity of the research team in the same or closely related problem area; (4) the proposer's plan for participation by Disadvantaged Business Enterprises – small firms owned and controlled by minorities or women; and (5) the adequacy of the facilities and equipment.

The NRC will award a contract to the responsible proposer whose proposal conforms to the RFP and is most advantageous to SHRP 2. The NRC may award a

contract on the basis of the initial proposals received, without discussions. Therefore, each initial offer should contain the proposer's best terms from a cost and technical standpoint. The NRC may (1) reject any or all offers if such action is in the NRC's best interest, (2) accept other than the lowest cost proposal, and (3) waive minor irregularities in proposals received.

The agencies with unsuccessful proposals are so notified, and the proposals are disposed of according to SHRP 2 policies. The policy of SHRP 2 is to provide a debriefing to unsuccessful proposers. The initiative for obtaining a debriefing lies with the proposers. The debriefing is intended to indicate to the proposers the technical areas in which their proposals were judged deficient and how the deficiencies were factors in their not having been selected. All debriefings will be conducted in a scrupulously fair, objective, and impartial manner, and the information given to the unsuccessful proposers will be factual and consistent with the evaluations by the SHRP 2 committees. The factors constituting the basis for selection of the successful agency will be identified, but the debriefing will not include a point-by-point comparison of all the elements considered in the evaluation criteria. Neither will there be any revelation of confidential business information, trade secrets, techniques, or processes of the other proposers, nor will there be any indication of the relative merits or technical standing of the unsuccessful proposers.

Once agency selection has been made by the Oversight Committee, the proposal review comments of the panel and the SHRP 2 staff are submitted to the selected agency, and a response is required. Some minor modifications to the proposal may be indicated. Concurrently, the agency is requested to complete a representations-and-certifications form, provide documentation to support proposed individual costs, rates, and forward information concerning its travel policy, indirect cost rates, and salary and wage schedules.

### **Types of Research Contracts**

1. *Cost-Reimbursement (CR)*, which provides for payment to the contractor of allowable costs incurred in the performance of the contract, to the extent prescribed in the contract. This type of contract establishes maximum costs for purposes of (a) obligating funds and (b) setting a ceiling, which the contractor may not exceed (except at the contractor's risk) without prior approval of the National Academies. For this type of contract, it is essential that the contractor's cost accounting system is adequate for the determination of costs applicable to the contract and that appropriate surveillance by National Academies personnel during performance will provide reasonable assurance that the effort is proceeding satisfactorily.

2. *Cost-Plus-Fixed-Fee (CPFF)*, which is a cost-reimbursement contract providing for payment of a fixed fee to the contractor. The fixed fee, once negotiated, does not vary with actual costs, but may be adjusted as a result of a subsequent change in the work or

services to be performed under the contract. *For this contract, a limit has been established of seven (7) percent of contract costs, exclusive of the fixed fees for the subcontractor, if any.* Generally, this form of contract will be used where a cost-reimbursement type of contract is determined to be necessary and there is agreement that the contract should be fee-bearing.

3. *Fixed-Price (FP)*, which provides for a price that is not subject to any adjustment by reason of the cost experience of the contractor in the performance of the contract. It is suitable for use in contracts when reasonably definite performance specifications (Statement of Work) are available and whenever firm and reasonable prices can be established at the outset of the effort.

### **Nondiscrimination**

Contractors are required to comply with pertinent Regulations of the U.S. Department of Transportation (U.S. DOT) relative to nondiscrimination in federally assisted programs of the U.S. DOT and shall not discriminate against any worker because of race, color, religion, sex, or national origin. In the fulfillment of this provision, the contractor is required to provide all information and reports required by the Regulations, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the National Academies or of the U.S. DOT to be pertinent to ascertain compliance with such Regulations, orders, and instructions.

## **III. RESEARCH ADMINISTRATION**

After executing the contract, the agency is expected to pursue the research aggressively and with due regard to the performance period. A SHRP 2 staff officer will make an initial visit to become acquainted with the research agency's facilities and personnel. Other visits will be made by the staff to maintain liaison with the project throughout the contract period. Annual trips to Washington, DC, by the principal investigator (PI) for consultation with Program staff may be requested.

### **Amplified Work Plan**

As a first step, the research agency will submit one hard copy and an MS Word electronic file on CD or DVD of an amplified work plan for review and acceptance by SHRP 2. This plan is due not later than 15 days after the contract beginning date. It must incorporate responses to SHRP 2 comments, provide any additional details on how the approved research plan will be carried out and is not to be in conflict with the research plan. It is to describe completely the activities to be pursued in the conduct of the research, including a work-flow diagram by tasks, time, and task-allocated budget, and should demonstrate clearly the accomplishment of the research within the specified period and funding, a factor that will be analyzed carefully during the review.

### **Monthly Progress Reports**

Once each month during the course of the research, the contractor shall submit by e-mail to the SHRP 2 staff officer a two-part report consisting of the following:

1. A cover letter providing (a) a clear and complete account of the work performed on each task during that month; (b) an outline of the work to be accomplished during the next month; and (c) a description of any problems encountered or anticipated that might affect the completion of the contract within the time and fiscal constraints as set forth in the contract, together with recommended solutions to such problems (or a statement that no problems exist).
2. A project progress schedule consisting of graphical information depicting (a) a schedule of research activities and related current progress, (b) a comparative status of actual and estimated expenditures, and (c) a percentage completion of the subject research.

### **Quarterly Progress Reports**

Quarterly progress reports are required from the contractor and are always prepared on the basis of calendar quarters. The contractor sends one hard copy and an electronic file of the report to the SHRP 2 staff officer by the last day of the quarter. Each report includes the monthly progress schedule for the last month of the quarter.

### **Adherence to Original Research Objectives and Budget Estimates**

The proposal and the amplified work plan submitted by the research agency become the binding scope of work in the contract with the National Academies. Thus, in addition to the specific research objectives outlined in the contract, the research agency's cost proposal is a part of the agreement. It is not the intent of the Program, however, to limit the PI's flexibility in conducting research that is consistent with the general scheme of the proposal. Therefore, the PI and the research agency are expected to manage the expenditure of approved funds in a manner consistent with the overall objectives. However, the contract amount cannot be exceeded, and anticipated major changes in the original estimate and allocated budget from the amplified work plan must be discussed in advance with SHRP 2 staff and submitted to the NRC Office of Contracts and Grants for negotiation of possible modifications to the original contract. **SHRP 2 must be notified when promising new leads or unproductive lines of inquiry are discovered, especially if they might lead to significant deviations from the approved research proposal and work plan.**

### **Advance Approvals**

Under the terms of the SHRP 2 contract, the following expenditures require prior written approval even though they are included in the proposal:

1. Equipment having a value in excess of an amount specified in the contract.
2. Travel to scientific or technical meetings.
3. Subcontracts for more than an amount specified in the contract.

### **Principal Investigator**

The research is considered to be under the technical direction of the PI identified in the proposal, and it is expected that the PI will be available for the full contract period and will have major involvement in the pursuit of the research objectives. Replacement of the PI is subject to approval from SHRP 2.

### **Payments**

Payments, exclusive of amounts withheld as a performance guarantee, will be made by the National Academies upon the submission of periodic vouchers (not more often than one a month) by the research agency. Complete instructions for the preparation of vouchers are issued by the National Academies at the time of contract execution.

### **Subcontracting**

Advance written approval is required for subcontracts even though provision for such is included in the proposal. At a minimum, the proposal should indicate the extent to which subcontractors will be used, the method of identifying subcontractors, and the extent to which competition will be used. An itemized budget and justification of the proposed subcontractor are required when submitting the subcontract for approval.

### **Disadvantaged Business Enterprise Plan**

TRB encourages participation of Disadvantaged Business Enterprises (DBE), which are small firms owned and controlled by minorities or women, and the proposer's plan for their involvement is a factor in contractor selection. Contractors who include DBE plans are required to submit periodic reports comparing actual with proposed payments to DBEs. The contractor's adherence to its DBE plan will be monitored during the contract period.

### **Final Reports**

Final reports are required for all projects, and agencies must budget for one trip by the PI to the SHRP 2 offices to complete the understanding of what is required in the preparation and editing of such documents. One hard copy and an electronic file of a **preliminary draft** of the project final report are due in the SHRP 2 offices not later than 90 days **before** the contract expiration date. This preliminary draft is reviewed by the TCC and staff, and review comments are transmitted to the PI approximately 45 days prior to the contract expiration date.

The PI then prepares a **final draft report** that incorporates the reviewers' comments and reflects editing by a competent technical editor to ensure compliance with the SHRP 2 requirements for style and organization of reports as detailed in the

document titled *Author Guidelines for SHRP 2 Reports*. Four copies of the report and a reproducible electronic version prepared in accordance with SHRP 2 specifications, must then be submitted to SHRP 2 by the contract expiration date.

This procedure obviously requires agencies to give careful thought during proposal preparation to the level of funds that will be required to ensure satisfactory compliance with contract commitments regarding preparation, editing, submission, and revision of preliminary draft reports and preparation and submission of the required copies of the report. Final acceptance of reports is based on the following criteria:

1. Fulfillment of objectives as set forth in the contract,
2. Adequacy of documentation,
3. Clarity of presentation, and
4. Adherence to SHRP 2 requirements.

Based on the acceptance review, a decision is made concerning publication in the regular SHRP 2 series. Such publication is the responsibility of the TRB.

Interim reports may be required from the agency to provide SHRP 2 with information on a project’s activities and findings at specified points during the contract period. SHRP 2 will specify the number of copies of the interim report required at a time specified in the agency’s work plan. Interim reports will be reviewed for acceptance under the same criteria as specified for final reports. It is not usually intended that interim reports will be published. If, however, the acceptance review or other factors determine that publication is warranted, the process is similar to that described for final reports.

**SHRP 2 Reporting Requirements**

Document Type	Number of Printed Copies	Electronic File Required
Proposal	20	None
Amplified Work Plan	1	Word file on CD or DVD
Monthly Progress Report	1	E-mail
Quarterly Report	1	Word file on CD or DVD
Preliminary draft, Final Report	1	Word file on CD or DVD
Revised Final Report	4	Word file on CD or DVD

**Copyrights**

All data, written materials, computer software, and other information prepared under the SHRP 2 contract and the copyrights therein shall be owned by the National Academies.

### **Patents and Inventions**

The disposition of patents and inventions is the responsibility of the research agency, and its obligations in this regard are set forth in the contract. Appropriate notice to the National Academies is required of inventions, discoveries, etc., and patent applications.

### **Insurance**

Research agencies shall be required to maintain either (1) insurance that provides for general liability, automobile usage, and worker's compensation and employer's liability as required by law; or (2) self-insurance that provides the equivalent coverage.

### **Disposition of Equipment**

Disposition of capital equipment acquired with projects funds shall be determined by the National Academies. The research agency may be given the opportunity to acquire the equipment after completion of the contract.

### **Data Rights**

The NRC shall have the right to duplicate, use, and disclose in any manner and for any purpose whatsoever all data, whether delivered to the National Academies or not, under the contract and to authorize others to do so.

### **Fulfillment of Contract**

Fulfillment of the contract includes submission by the research agency of an acceptable report. Other actions to be taken in closing out a contract involve audit of contract costs (including approval of final overhead rates), submission of a final voucher by the agency, disposition of data and equipment, resolution of patent rights, completion of a certificate of performance and release form, and other related business matters.

## **IV. INSTRUCTIONS FOR PREPARING AND SUBMITTING PROPOSALS**

### **General**

SHRP 2 is an applied research program that does not operate on a grant basis and has no funds available to support unsolicited proposals, however meritorious they may be. Proposals are invited only in response to the issuance of requests for proposals by SHRP 2. SHRP 2 projects are structured to contribute to focused program objectives and for that reason, proposals are desired only from agencies or individuals already having extensive, demonstrated capability and experience in the subject problem area. Further, it is expected that this high level of capability will be applied in meeting the commitments of the proposal – capability cannot be developed at project expense.

Research under SHRP 2 may be conducted by consultants, academic institutions, research institutions, foundations, or others who possess extensive, demonstrated capability and experience in the subject problem area.

Proposals become the property of SHRP 2, are treated as privileged documents, and are disposed of according to Program policies, including the right to reject all proposals.

### **Deadlines**

The deadline for *receiving* proposals, as shown on each RFP, is rigid, and extensions are not granted. Officially signed copies are not required; however, the agency's own internal policies prevail in this regard. Proposers may withdraw their proposals at any time. **All proposals arriving after the deadline shown in the RFP will be rejected.**

### **Transmittal**

A letter of transmittal need not be sent with the proposal package. In the event an agency elects to send a transmittal letter, it is cautioned that the transmittal letter must not include information vital to the proposal. All information that is to be considered as part of the proposal **must** be bound in a **single volume** that will constitute the proposal in its entirety. Brochures, pamphlets, and other descriptive materials pertaining to the agency may be included as appendix material. CD-ROMs, video tapes, or computer diskettes are not acceptable for inclusion in SHRP 2 proposals, unless specifically called for in the project statement. Unless otherwise specified in the RFP, 2 copies of proposals are required.

### **Liability Statement**

A Liability Statement is included in every RFP (see [Figure 1](#)). **In order for the proposal to be accepted, the Liability Statement must be signed by an authorized official of the proposing agency, and shall not be altered in any way.** The statement should be mailed with the proposal. **If a fully executed statement is not received by the proposal deadline, the proposal will be rejected.**

### **Acknowledgment**

SHRP 2 will not acknowledge receipt of an accepted proposal unless a self-addressed, stamped postcard is included by the sender in the proposal package. SHRP 2 will advise agencies as quickly as possible of proposals rejected from consideration, conveying the reason(s) for rejection.

### **Presentation**

Proposers are cautioned to be concise and straightforward in their single-volume proposals. Material that is extraneous and not germane to the research project under consideration will detract from the quality of the proposal. In the interest of saving paper, reduced mailing costs, and ease of handling, proposal pages should be printed on both sides, using the lightest bond weight permitting such practice, and maintaining margins of 0.5 to 1 inch. All pages of the proposal shall be numbered; use 10-, 11-, or 12-point type.

## Organization

Unless otherwise indicated in the RFP, all proposal information shall be presented in a single-bound volume that has been checked sufficiently to ensure completeness and accuracy of detail. **Proposals that do not comply with the instructions in this manual will not be accepted.** It is mandatory that proposals contain the following information and that it be presented in the order shown below:

1. Cover
2. Summary Page
3. Proposal Budget Summary
4. Table of Contents
5. Research Plan
6. Qualifications of the Research Team
7. Accomplishments of the Research Team
8. Other Commitments of the Research Team
9. Equipment and Facilities
10. Time Requirements
11. Itemized Budget
12. Cooperative Features (if appropriate)
13. Appendixes (if appropriate)

For the convenience of the reviewers, items 4 through 12 should be separated with either color-coded or tab-type dividers so that information may be located quickly.

## Details of Essential Content

1. *Cover* – The outermost covering of the proposal shall be either paper or cardboard and must be non-glossy, light-colored material capable of accepting rubber stamp ink without smearing. The cover shall contain the SHRP 2 project number (e.g., S01), the title of the project, the name of the submitting agency, and a “Limited Use Document” clause. For guidance, an example of the desired information and layout of the cover is shown in [Figure 2](#).

2. *Summary Page* – The summary page shall immediately follow the cover and shall include the information arranged as shown in [Figure 3](#). Note that the summary page shall contain the SHRP 2 project number and title; the name, address, and telephone number of the agency submitting; the name and address of the agency with which a joint venture is proposed, if such is the case; the name and title of the person formally submitting the proposal; the name(s) and title(s) of the person(s) who actually wrote the proposal; the name(s), address(es), telephone number(s), and e-mail address(es) of the PI(s) assigned to the project; the name, address, telephone number, and e-mail address of the responsible administrative officer having cognizance of the project (this should be the individual authorized to bind the agency contractually and to approve the expenditure of project funds); the amount of time proposed to complete the research;

the total amount of the budget contained in the proposal; and the percentage and amount of fixed fee, if any (refer to Section 10(k) below for fixed-fee limitations).

3. *Budget Summary*— The proposal Budget Summary page will summarize all costs detailed in the itemized budget. It is supplemental to the contractor’s detailed proposal budget, and should be prepared in accordance with the proposed project phases, tasks, and performance period to provide an overall estimate of project costs. [Figure 4](#) is an example of an acceptable Budget Summary.

4. *Table of Contents*— Self-explanatory.

5. *Research Plan*— The research plan shall detail completely the prosecution of the research, including the submission of an acceptable final report. The plan ultimately becomes a part of the contract by reference of the proposal; therefore, it should describe in a specific and straightforward manner the proposed approach to the solution of the problem described in the project statement. It should be concise, yet include sufficient detail to describe completely the approach to solution of the problem. Research methodology shall be described in sufficient detail to permit evaluation of the probability of success in achieving the objectives. Unless otherwise indicated in the RFP, SHRP 2 procedures do not provide for pre-proposal briefings or for meetings with staff and panels in the course of proposal evaluation or agency selection. The proposal, therefore, constitutes the one-and-only opportunity for the agency to state its case. The research plan shall be subdivided into the following sections:

(a) *Introduction*. The introduction to the research plan should provide a concise overview of the proposer’s approach to conducting the research. It should describe the manner in which the expertise and experience of the proposed team will be used in the research, and the application of special data, facilities, contacts, or equipment should be presented. The introduction should highlight the linkages of the proposed team’s capabilities to the project tasks and the manner by which the proposed plan will satisfy the objectives.

(b) *Research Approach*. This section should describe how the objectives will be achieved through a logical, innovative, and rational plan. The plan shall describe each phase or task of the research to be undertaken.

(c) *Anticipated Research Results*. The research plan for each proposal shall contain specific statements describing the anticipated research results. The results are expected to be presented in terms of the language and working tools of the practitioner or administrator so as to be immediately applicable to practice. Consequently, there must be specific statements of the manner in which the desired results would be reported, e.g., mathematical models, design techniques, field or laboratory test procedures, or guidelines for recommended practice.

(d) *Applicability of Results to SHRP 2 Objectives.* The research plan shall include a section titled “Applicability of Results to SHRP 2 Objectives” that clearly describes how the anticipated research results can advance SHRP 2 objectives and integrate with the overall research plan for the applicable SHRP 2 focus area.

6. *Qualifications of the Research Team* – Name, address, telephone number, and pertinent background information must be provided for the PI bearing primary responsibility for the project. The same information is required for other research team members participating to a significant degree. The proposal must describe how the academic, industrial, and/or research experiences of each research team member relates to the project to be undertaken.

**Note:** Item 6 in the proposal must include a section labeled “Disclosure.” Information relevant to SHRP 2’s need to ensure objectivity and to be aware of possible sources of significant financial or organizational conflict of interest in conducting the research must be presented in this section of the proposal. For example, under certain conditions, ownership of the proposing agency, other organizational relationships, or proprietary rights and interests could be perceived as jeopardizing an objective approach to the research effort, and proposers are asked to disclose any such circumstances. If there are none, this should be stated.

**Note:** Item 6 will also include either the proposer’s plan for participation by DBEs or a statement that no such plan is included. Firms included on the research team as DBEs should be certified or eligible to be certified by a public-sector contracting agency. The proposal should include information of certification for each DBE.

Federal or state employees submitting or participating in proposals to conduct SHRP 2 research must also include in this section a letter signed by appropriate authority stating that the employee’s agency is aware of the proposal and approves of the employee conducting research in the event the proposal is successful.

7. *Accomplishments of the Research Team* – Proposals shall contain a summary of the past accomplishments (“track record”) of the research team in the same or closely related problem area of the project to be undertaken. This summary is to include full particulars concerning all known instances of application to practice of the agency’s research results. If no such knowledge exists, it should be so stated.

8. *Other Commitments of the Research Team* – Proposals shall contain a listing of current organization and personnel commitments to other work in sufficient detail to indicate that the organization and all of the individuals assigned to the proposed project will be able to meet the commitments of the proposal. Staff-hour commitments and percentage of time committed to other work for each member of the proposed research team shall be specified.

9. *Equipment and Facilities* – This section shall include a description of the facilities available to undertake the research and an itemization of the equipment on hand considered necessary to complete the research. In the event that use of the facilities or equipment is conditional, the conditions should be described. In the event that certain facilities or equipment are considered necessary to undertake the research but are not on hand, that fact should be presented. The proposer should identify any arrangements that will be made to borrow or rent necessary equipment. Letters of commitment should be included to indicate the availability of equipment. Rental rates should be included in the budget. In the case where it is contemplated that additional equipment will be purchased under project funds, be certain that the budget item “capital equipment” indicates this.

10. *Time Requirements* – The time required to complete the research project shall be clearly stated in the proposal. Proposals must adhere to the time requirements specified in the RFP. Individual SHRP 2 projects are components of an integrated research program and results from one project may be required in another project. A schedule shall be included that shows each phase or task of the work, when that phase or task will begin, how long it will continue, and when it should end. The timetable should clearly delineate the points in time where project deliverables and reports are planned.

11. *Itemized Budget* – The estimated cost for the project should be based on the proposed performance period. The budget shall reflect phase and/or task costs. Proposals will not be accepted where budgets are in excess of the amount shown on the project statement. Also, see Section II, *Proposals*, regarding cost sharing. Lump sum estimates are not acceptable; budgets shall be itemized in accordance with the following cost categories where appropriate:

(a) *Salaries and Wages*. Each employee to participate in the performance of the project shall be identified by name, with role, level of effort, and cost presented in the format specified in the terms of [Figure 5](#). It is recognized that the internal policies of some agencies prevent strict conformance with this requirement. In all such cases and prior to submitting a proposal, contact with the NRC Office of Contracts and Grants should be made to determine the possibility of waivers.

Note: The example shown as [Figure 5](#) should be followed as closely as possible. The table must include hourly breakdowns by task for **every principal member of the research team, including consultants and subcontractors**. Actual hours should be shown rather than months or dollars. In addition, it is preferred that only one table be submitted rather than separate tables by task. The table should be located immediately behind the *Itemized Budget*.

(b) *Borrowed Personnel*. Reimbursement to other employers for salaries and wages paid by them to their employees released for, and directly engaged in, the performance of the subject research, plus federal and state payroll taxes and related employee benefit plan costs.

(c) *Consultants*. Costs for services of independent consultants deemed necessary for accomplishment of the research.

(d) *Subcontracts*. Costs for services of subcontractors deemed necessary for performance of a portion of the research.

(e) *Capital Equipment*. Items with a value in excess of an amount specified in the contract per article or assembly required for the conduct of the research. Any article or assembly costing more than an amount specified in the contract is subject to approval in advance of purchase.

(f) *Materials and Services*. Materials, supplies, and other articles, including the cost of processing; testing; rental of apparatus and equipment from others; preparing, editing, and reproducing reports, including the final report for submission to the TRB; and services not provided for in Items a, b, c, and d above. After the final report has been received and accepted, publication of that report is a responsibility of the TRB. Accordingly, the budget should provide only for preparing 4 hard copies of the final report and an electronic Word file on CD or DVD; 1 copy of interim reports, if applicable; and 1 copy of quarterly progress reports per quarter. Specific instructions for authors of final reports are found in [Author Guidelines for SHRP 2 Reports](#).

(g) *Communications and Shipping*. Long-distance telephone calls, telegrams, cablegrams, radiograms, postage, freight, express, drayage, etc.

(h) *Travel*. Transportation costs plus reasonable actual subsistence expenses (or an allowance in lieu of actual subsistence costs) of persons working directly on the subject research. While all travel shall be conducted in accordance with the research agency's stated travel policies, travel expenses shall not exceed the prevailing NRC rates/ guidelines for such travel. Travel should include provision for annual visits by the PI for consultation with SHRP 2 staff and, if the requirement cannot be satisfied through one of these visits, an additional visit to complete the understanding of what is required in the preparation, editing, and revision of final reports. Approval of individual trips is not required except for costs of travel to scientific and technical meetings.

(i) *Employee Benefit Plan Costs and Payroll Taxes*. Costs of group insurance and employees' pension and retirement plans and federal and state payroll taxes for employees working directly on the subject research.

(j) *Overhead*. An allowance for overhead costs determined in accordance with the research agency's usual method of accounting and generally accepted accounting principles. The current overhead rate should be extrapolated on the basis of previous years' trends to provide the best estimate possible for the anticipated contract period. Specify the rate (a fixed rate may be proposed, if the agency so chooses) and the base on which the overhead is applicable and include a statement supporting this rate. A negotiation agreement or statement from a Federal Government agency is acceptable for this purpose.

(k) *Fixed Fee*. In the event the agency desires to undertake work on this project on a cost-plus-fixed-fee (CPFF) basis, the budget shall include a line item showing the fixed-fee percentage and amount. **The fixed fee, which is subject to negotiation, cannot exceed seven (7) percent of contract costs exclusive of the fixed fees for the subcontractor, if any. Subcontractor fixed fee is also limited to seven (7) percent.** The contractor is required to submit in the proposal a justification for the amount(s) included in the budget, e.g., a statement of the complexities of administration.

In its consideration of these items, the National Academies is guided by the applicable U.S. Government regulations. All fiscal, budget, and other pertinent information must be bound with each proposal, in the single volume required.

Cost analysis of SHRP 2 proposals will be conducted by the ETG in coordination with the NRC Office of Contracts and Grants to determine the reasonableness of the proposed itemized budget. A determination of the need for a pre-award audit for financial accountability purposes will be made on a case-by-case basis.

Institutions of higher education and other nonprofit recipients are required to meet the audit requirements of OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations." OMB Circular A-133 is also applicable to all higher education and nonprofit institution sub-recipients receiving \$25,000 or more in federally funded awards during a fiscal year.

12. *Cooperative Features* – If assistance in the form of personnel, data, or equipment is required from other agencies, public or private, describe the plans for obtaining such help or information. Such cooperative features could include paid sub-contractors, unpaid volunteer participants, donations or loans of equipment or data, or agreements to provide access to roads or other facilities. A letter of intent from agencies or individuals agreeing to provide these cooperative arrangements should be included in the proposal. Proposers should not contact transportation agencies when preparing proposals to obtain commitments for cooperation during the research.

13. *Appendixes* – The appendixes may include such things as statements concerning previous work on this problem or related problems, abstracts of related projects, a bibliography or list of references, or descriptive brochures or materials describing the agency’s organization and capabilities in general terms. Any other material not specifically mentioned previously and believed to be relevant for purposes of the proposal may be included as an appendix.

In summary, it is expected that proposers will have studied the foregoing instructions and will have complied fully with them. Failure to do so, if not warranting outright rejection, will certainly raise serious questions as to how well the agency would handle a complex research project and would, therefore, seriously jeopardize the chances of being selected to conduct the work. In matters that require further clarification, proposers should contact the SHRP 2 office with technical questions regarding the project statement and the NRC Office of Contracts and Grants with contractual questions. The name and telephone number of the staff member assigned to each project is noted on the RFP.

**Please remember that noncompliance with the following will result in automatic rejection:**

1. Proposals must arrive at the address indicated before the deadline shown on the request for proposals.
2. Proposals must contain, in the order indicated, the 13 items listed in Section IV, *Organization*, which are described in *Details of Essential Content*.
3. Proposals must be accompanied by an executed, unmodified copy of the [Liability Statement](#). If this statement is not received by the proposal deadline, the proposal will be rejected.
4. Questions regarding proposal preparation will be directed to SHRP 2 staff only.

**Figure 1**  
**Strategic Highway Research Program II**  
**Liability Statement**

Revised May 2006

Project \_\_\_\_\_

Fiscal Year \_\_\_\_\_

The signature of an authorized representative of the responding agency is required on the following unaltered statement in order for the TRB to accept the agency's response for consideration. **Responses submitted without this executed and unaltered statement by the response deadline will be summarily rejected.** An executed, unaltered statement indicates the agency's intent and ability to execute a contract that includes the provisions below.

Proposing Agency: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**CONTRACTOR LIABILITY**

- (a) The parties agree that the contractor and its employees and agents ("Contractor") will be primarily responsible for performing the work required under the contract, and shall therefore be legally responsible for, and shall indemnify and hold the Academy harmless for all claims asserted against the Academy, its committee members, officers, employees, and agents, by any third parties, whether or not represented by a final judgment, if such claims arise out of or result from Contractor's negligent or wrongful acts in performing such work, including all claims for bodily injury (including death), personal injury, property damage, and other losses, liabilities, costs, and expenses (including but not limited to attorneys fees).
- (b) With respect to entities of State government that are subject to State law restrictions on their ability to indemnify and hold harmless third parties ("Restricted State Entities"), the obligation to indemnify and hold harmless the Academy in Paragraph (a) shall apply to the full extent permitted by applicable State law. In addition, each Restricted State Entity executing this contract represents and warrants that no part of any research product or other material delivered by such Restricted State Entity to the Academy ("Work Product") shall include anything of an obscene, libelous, defamatory, disparaging, or injurious nature; that neither the Work Product nor the title to the Work Product will infringe upon any copyright, patent, property right, personal right, or other right; and that all statements in the Contractor's proposal to the Academy and in the Work Product are true to the Contractor's actual knowledge and belief, or based upon reasonable research for accuracy.
- (c) The term "wrongful act" as used herein shall include any tortious act or omission, willful misconduct, failure to comply with Federal or state governmental requirements, copyright or patent infringement, libel, slander or other defamatory or disparaging statement in any written deliverable required under the contract, or any false or negligent statement or omission made by Contractor in its proposal to the Academy.
- (d) The obligations in paragraph (a) of this clause to indemnify and hold harmless the Academy shall not extend to claims, damages, losses, liabilities, costs, and expenses to the extent they arise out of the negligent or wrongful acts or omissions of the Academy, its committee members, officers, employees, and agents.
- (e) Both the Academy and Contractor shall give prompt notice to each other upon learning of the assertion of any claim, or the commencement of any action or proceeding, in respect of which a claim under this paragraph may be sought, specifying, if known, the facts pertaining thereto and an estimate of the amount of the liability arising therefrom, but no failure to give such notice shall relieve the Academy or Contractor of any liability hereunder except to the extent actual prejudice is suffered thereby.
- (f) The Academy and Contractor agree to cooperate with each other in the defense of any claim, action, or legal

proceeding arising out of or resulting from Contractor's performance of the work required under this contract, but each party shall control its own defense. The Academy shall also have the option in its sole discretion to permit Contractor or its insurance carrier to assume the defense of any such claims against the Academy.

- (g) The obligations under this clause survive the termination, expiration, or completion of performance under this contract.

## Figure 2

### Example Cover Page

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# SHRP 2

## Project Number

(insert appropriate project number,  
e.g., SHRP 2 C01,

## Project Title

(as shown on RFP)

TRANSPORTATION RESEARCH BOARD  
NAS-NRC  
LIMITED USE DOCUMENT

This proposal is for use of recipient in selection of a research agency to conduct work under the Strategic Highway Research Program. If the proposal is unsuccessful, it is to be returned to SHRP 2. Proposals are regarded as fully privileged, and dissemination of the information included therein must be approved by SHRP 2.

## Agency Name

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**Figure 3**  
**Example Summary Page**

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**SUMMARY PAGE**

**SHRP 2 Project** (Use number on request for proposal)

“(Title as shown on request for proposal)”

Proposing Agency: (Use name that will appear on contract; include address and telephone number)

Person Submitting Proposal: (Name and title)

Proposal Written by: (Name and title)

Proposal Date: \_\_\_\_\_

Principal Investigator: (Name and title, telephone number, and e-mail address)

Administrative Officer: (Name and title, telephone number, and e-mail address)

Proposed Contract Period: (In months)

Total Contract Amount: \_\_\_\_\_

Fixed-Fee Portion at \_\_\_\_%: \_\_\_\_\_

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**Figure 5**

**Example of Effort by Tasks (Hours and Costs)**

Names of Principal Staff Members*	Role in Study	Time (%) Over Contract Period**	Hours					Hourly Rate (\$)	Cost (\$)
			Task 1	Task 2	Task 3	Task 4	Total		
	Principal Investigator Overall Project Management	41.6	278	800	348	313	1,739	115.00	199,985
	Co-principal Investigator	25.0	104	644	174	122	1,044	102.75	107,271
		15.6	52	400	113	87	652	86.00	56,072
		15.6	70	400	104	78	652	80.60	52,551
		12.5	70	383	35	35	523	45.00	23,535
		12.5	52	383	52	35	522	45.00	23,490
<b>Totals</b>			626	3,010	826	670	5,132		462,904
* Include Subcontractors and Consultants									
** Total Hours ÷ 174 hours/month ÷ contract months									