Request for Proposals for UCI Research Projects
USDOT
Pacific Southwest Region
University Transportation Center

RFP Issued:  September 22, 2017
Proposals Due:  October 23, 2017
Anticipated project start date:  January 1, 2018
Maximum project duration:  up to 12 months
# Table of Contents

- Table of Contents ........................................... 1
- Introduction ................................................ 2
- Eligibility .................................................. 2
- Research Program Themes and Topic Areas .......... 2
- Selection Criteria for All Proposals .................. 4
- Funding Guidelines and Restrictions ................. 6
- Proposal Instructions ....................................... 7
- Research Proposal Instructions ......................... 7
- Submission Instructions .................................... 9
- Caltrans Strategic Goals ................................ 11
- Budget Information and Forms ......................... 13
Introduction

The USDOT Pacific Southwest Region University Transportation Center (PSR) is the Regional UTC for US Region 9 (California, Arizona, Nevada, Hawaii, and the Pacific Islands). PSR is led by the PSR Transportation Center, University of Southern California and includes the following partners: California State University, Long Beach, Northern Arizona University, Pima Community College, University of California, Davis, University of California, Irvine (UCI), University of California, Los Angeles, and University of Hawaii. PSR funded research is expected to result in scholarly publications and contribute to generating larger grants from other sources.

Funding for this RFP

This is the first UCI PSR RFP, and it will allocate Year 1 research funding. Total faculty research funding available under this RFP is expected to be up to approximately $250,000, depending on sources and amounts of PSR matching funds received at UCI. This range includes expected matching contributions from Caltrans. Caltrans funds are available only for partner universities in California. These funds have not yet been committed by Caltrans, nor have any other matching funds. Thus project awards will begin based on availability of funding, with the first group anticipated to begin in Winter quarter 2018. Project selections are expected to be made in November 2017 so that GSR appointments can be prepared for an earliest start date in January 2018.

The amount awarded under this RFP will be determined by the quality and relevance of proposals received. Given the anticipated competition for these funds, prospective applicants should carefully consider their expertise relative to the thematic areas and topics, and ability to obtain agency support as described below in the section Selection Criteria for all Proposals.

The remainder of this RFP describes eligibility requirements, research topics, selection criteria, funding guidelines and restrictions, project requirements, and proposal instructions as well as budget instructions and sample budget sheets. Submission instructions and a cover page are also provided.

Eligibility

Full-time tenure track and research faculty members eligible to serve as Principal Investigators at any of the partner universities are eligible to serve as Principal Investigators on PSR UTC grants. Proposals may include multiple investigators. Proposals may also include research faculty and non-tenure track faculty from the partner universities as Co-Principal Investigators. A small amount of funding has been reserved for university researchers within Region 9 but outside the consortium (further information is available from the PSR Transportation Center at USC, and the same eligibility requirements apply).

Research Program Themes and Topic Areas

Our research program is organized around four themes: Technology for improved mobility, Improving mobility for disadvantaged populations, Improving resilience and protecting the environment, and Managing mobility in high growth cities and regions.

In addition, given the expected sources of funds supporting this RFP, preference will be given to UCI PSR RFP 1 2017 - 2018
proposals addressing one or more of the themes below, while also maintaining a primary focus on informing transportation policy, planning, operations and management in California.

**Theme 1: Technology for improved mobility**

We are on the threshold of a largely unforeseen technological and social transformation in connectivity, automation, and the sharing economy that promises to revolutionize travel in our Region and beyond. This theme explores technology solutions for improving mobility for both passengers and freight. Our Theme 1 research program is organized around three topic areas.

**Topic 1-1: Technology and mobility:** This topic examines emerging technologies and their potential for improving passenger and freight mobility. Innovation is rapid across both passenger and freight modes. Examples include smart parking, dynamic routing, delivery consolidations, and integrated transit fare systems, in addition to the well-known transportation network companies (TNCs). This topic examines the potential of these innovations to solve the transport problems of Region 9.

**Topic 1-2: Smart infrastructure and vehicles:** Technology for connected and autonomous vehicles (CAVs) is advancing rapidly. This topic examines AVs and CAVs. Examples of research include: 1) development of models and algorithms for managing shared CAVs; 2) impacts on travel behavior; 3) impacts on traffic flow and management in mixed fleets; and 4) truck platoons. This topic also examines the potential long term impacts of AVs and CAVs on travel behavior, location choices of households and firms, and metropolitan spatial structure.

**Topic 1-3: Public policy and implementation:** This topic explores the role of government in technology implementation and regulation. Research is needed on the role of government in this changing environment. A second issue is cooperation. A future of vehicles managed at the system level requires cooperation of public and private entities involved, yet there are many barriers to such cooperation. Finally, there are questions about the viability of CAVs.

**Theme 2: Improving mobility for disadvantaged populations**

This theme addresses mobility and accessibility problems of disadvantaged populations.

**Topic 2-1: Novel modes for improved mobility and accessibility:** This topic explores the potential of novel modes, new models of public transport, and new models of private vehicle access to address mobility problems. Research may include challenges to implementation and strategies to overcome them.

**Topic 2-2: Land use, accessibility, mobility:** Addressing the needs of the disadvantaged includes studying relationships between land use and transport with respect to minority and disadvantaged populations. This topic examines the impacts of limited accessibility and mobility both in urban and rural areas. It also explores the role of land use policies in reducing access barriers for underrepresented groups.

**Theme 3: Improving resilience and protecting the environment**

Resilience, or the ability to absorb shocks, recover quickly, and adapt to changing social, economic, and environmental conditions is essential to ensuring well-functioning and sustainable communities. Sustainability also requires reducing environmental problems. This theme addresses all aspects of environmental protection.

**Topic 3-1: Analyzing alternative resilience strategies:** More effective resilience strategies can reduce...
the damages of natural disasters, accidents, or terrorist events. There is a need for research on frameworks to analyze resilience strategies at different geographic scales. Effectiveness of resilience strategies is often analyzed via economic impact models. In the case of transportation, these models could be linked with transportation network models to quantify the cost-effectiveness of different strategies. Methods to examine distributional impacts of disruptions and resilience across socioeconomic groups is also needed.

**Topic 3-2: Smart technologies:** Smart technologies can improve system monitoring. Smart sensing systems, including those powered through solar or power harvesting, can provide the necessary information to monitor the health of systems so that proactive repair and replacement can be dealt with through normal crew duties.

**Topic 3-3: Reducing environmental impacts:** The challenge for Region 9 is to reduce environmental impacts while meeting the mobility needs of society, fostering healthy communities, and supporting economic growth. Research is needed to address this challenge along three fronts: 1) *Infrastructure and operations:* lifecycle use of materials and practices in roadway construction, maintenance, and operation; assessment of environmental implications of Intelligent Transportation System (ITS) strategies; 2) *Travel demand:* effectiveness of strategies for shifting driving to transit, walking, and bicycling; implications of automated cars for land development patterns; role of new mobility services in daily household travel; and 3) *Vehicle and fuel technologies:* assessment of new-generation fuel and vehicle technologies, including battery, plug-in hybrid, roadway-powered, and fuel cell electric vehicles, with respect to lifecycle emissions, private and social costs, consumer behavior, and regulatory and market policies.

**Theme 4: Managing mobility in high growth cities and regions**
This theme addresses the transportation problems of regions and metro areas experiencing rapid population and employment growth are expecting to continue to grow.

**Topic 4-1: Managing passenger demand:** This topic explores meeting human needs while lessening travel required. The emphasis is on “accessibility” rather than “mobility.” Well-being is enhanced when people are able to acquire goods and services, employment and education, but not necessarily by increasing travel volume. There is increasing emphasis on combining land use planning with transportation capital investments to achieve efficient movement patterns.

**Topic 4-2: Managing freight demand and its impacts:** This topic addresses the challenges of managing freight, both last mile and regional. For example, the rise of e-commerce has brought about changes to global and local supply chains and greatly increased urban freight deliveries. The revitalization of our urban cores adds another increase in demand that translates into additional trips made by trucks and delivery vans. Research is needed to examine the impacts of e-commerce and other changes on local and regional mobility, economic activity, and employment patterns, such as passenger-freight conflicts, dynamics of shifts and their local impacts, and effective strategies for managing trade-related traffic, including better balancing demand across time intervals, routes, and modes.

**Selection Criteria for All Proposals**
Transportation researchers and practitioners will evaluate proposals. Proposals will be selected on the basis of their evaluations along with programmatic priorities. Proposals will compete both within topics
and across topics. PSR does not guarantee that proposals will be funded in all topic areas, or that any proposal will be funded.

Reviewers will evaluate proposals according to the following selection criteria:

1. Demonstrated relevance to the above research program themes (a requirement)
2. Quality and research significance
3. Student involvement
4. Reasonableness of budget and cost-effectiveness
5. Qualifications to perform work and likelihood of successful completion
6. Match funding, if any, and potential for attracting larger grant funding
7. Prior performance on grants (as applicable)

Proposals that involve collaboration between partner universities, interdisciplinary proposals that cross school boundaries as well as participation from outside organizations are encouraged.

Proposers are encouraged to communicate with members of the PSR Executive Committee or other outside organizations in the development of research proposals. A list of Executive Committee members can be found in the directory page of PSR at https://www.mettrans.org/psr-utc-key-personnel.

Given the expected sources of funds supporting this RFP, all proposals must provide confirmation that a California local, regional or state agency has expressed interest in the proposed work. PIs are required to submit with their proposal a letter of support from a California public agency or NGO outlining the relevance, timeliness and need for the research, how the research results will be used by the agency, and what role or involvement the agency will have in the research. In particular, the procedures for obtaining letters of support from Caltrans are described in Appendix A.

Commitments of participation (for example data sharing or match funding) from outside of PSR will be a consideration in making awards. Any project that involves data collection, access to facilities, or cooperation of a private or public entity must include a letter of participation from the entity in the proposal.

Proposers are encouraged to include undergraduate students in the research project if appropriate. There are potential funding opportunities through various university programs that could support students working on PSR projects. Proposers are strongly encouraged but not required by this RFP to explore such opportunities with their schools and universities.

**Match Funding**

The USDOT University Transportation Center program requires a non-federal match as a condition of the federal funds. Caltrans is expected to provide only a portion of the required match. Thus PSR encourages proposals that include match funding from other non-federal sources over and above those already anticipated to support this RFP. Proposals that include at least a 10% hard match (e.g. contribution to direct costs from external non-federal sources) will receive priority consideration. For additional information, contact PSR ITS Assistant Director Craig Rindt <crindt@uci.edu>.

**Project Selection**

*UCI PSR RFP 1 2017 - 2018*
The PSR Executive Committee will make final project selections, taking into account reviewer evaluations, programmatic priorities, prior project performance, and partner recommendations. For Caltrans-funded projects, Caltrans will also approve selected projects. Executive Committee members are allowed to submit proposals, but are not allowed to be present during deliberations and voting related to their proposals.

**Funding Guidelines and Restrictions**

Budgets should be conservative and cost-effective. Funding should be directed at new and original work. In some cases, PSR will consider continuations of prior PSR projects that have achieved significant results and have a high potential for deployment, scholarly products or large grants. PIs may submit multiple proposals, though it is unlikely that any PI will be awarded more than one grant. PIs with current PSR grants are eligible to apply. However, grants will not be awarded to PIs with outstanding deliverables (draft or final report; research brief; data management plan compliance) on prior PSR grants.

Funds should be spent in a manner that provides publishable results, especially in refereed journals. In general, faculty summer salary, student support, and tuition/fee reimbursement are allowed expenses. Proposers are encouraged to budget travel to one domestic conference to present project results. However, Caltrans will not fund travel to TRB conferences. Funding for students is expected in all projects, including GSR salary and any additional costs for student presentations at conferences. Overhead and fringe benefits should also be included in the budget. A limited amount of travel for data collection purposes, materials, and supplies may be included, provided that they are a direct expense related to completing the work. International travel is not permitted.

Proposers are discouraged from budgeting for computers, equipment, support staff, outside consultants, or any salary that goes beyond normal academic or summer compensation. These may only be included if specific justification is provided as to why the work cannot be completed without the expense. In no case shall PSR partner university employees be hired on a consulting basis.

UCI PSR funded proposals will have accounts administered by ITS-Irvine. At the partner universities, accounts will be set up within the subcontract per each partner’s policies. PIs will not have individual contracts or grants from the funding agencies.

**Funding Guidelines:**

1. Research project awards have a maximum of $80,000 per year (including indirect costs of 30%)
2. The typical project duration is one year
3. **Note that conservative and cost-effective budgets are strongly encouraged.** PSR reserves the right to reduce the budgets of submitted proposals. Projects should be budgeted to begin on January 1, 2018 and end by December 31, 2018

**Research Initiation Awards**

Research initiation awards are available to tenure track Assistant Professors, with preference for faculty who have not been previously funded for research in transportation. These awards are limited to a maximum of $40,000 for one year. These awards will receive priority consideration over regular
awards. Research initiation proposals are subject to the same selection criteria and peer review process as regular proposals.

**Project Requirements:**
All research projects have the following requirements (a link to online guidelines and templates will be provided soon):

1. Semi-annual progress reports conforming to PSR guidelines
2. A Draft Final Report, conforming to PSR guidelines, which must be delivered 30 days prior to the completion date of the project. The Draft Final Report is subject to peer review. The Draft Final Report should include an executive summary, data management plan compliance explanation, and documentation of the research project. It should be complete, original, well organized and accurate; and comply with report content and format guidelines (posted to the PSR website)
3. A Final Report that complies with the review comments and requirements must be delivered within 30 days after the review of the Draft Report. Draft Final and Final Reports are distributed via the PSR websites, and are submitted to PSR sponsors and to various publications databases
4. A separate statement listing publications, presentations and inventions resulting from research; names of students supported along with their degree status; and a summary of project results. This statement is to be submitted with the Draft Final Report
5. A 2- to 4-page Research Brief suitable for a general audience that summarizes the main findings of the research and its contribution to practice or policy. This brief is to be submitted with the Final Report
6. A brief Biographical Sketch for each of the project’s investigators to be submitted with the Draft Final Report. A template for the biographical sketch will be provided with the notification of award. At least one presentation of the funded project’s research at a thematic conference or seminar organized by PSR
7. Timely reporting of all information requested for the PSR Annual Report
8. Copies of all papers submitted to journals or conferences that are based on the project’s research. Copies should be provided to the PSR Administrator
9. Acknowledgement of PSR support in all work that results from PSR funding, including peer-reviewed publications and conference presentations
10. **Conformance to new data management requirements imposed by DOT.** These requirements will be provided as soon as possible (see 2. below)
11. **PI ORCID number.** PIs are directed to obtain and provide this number to the center administrator within 30-days of notification of project selection. Numbers can be obtained at https://orcid.org/register

Projects funded by Caltrans will have additional reporting and budget requirements. Principal Investigators of proposals selected for Caltrans funding will be informed of these requirements.

**Proposal Instructions**

**Research Proposal Instructions**
Research proposals should be succinct and clearly written for a mixed technical and non-technical audience. Proposals are limited to no more than 8 pages in sections 3 – 7. Budget and other forms are
included in Appendix B. Each proposal must include the following sections:

1. Cover page (use the form provided in Appendix B)
2. Data Management Plan commitment (the 2016 FAST Act requires a data management plan for all UTC research; we are awaiting approval of the PSR Data Management Plan; please simply include a placeholder in the proposal)
3. Project objective and project abstract (see research page at www.PSR.org for examples; no more than one page)
4. Background and motivation for the topic to be addressed (problem to be addressed, what has been done previously, why it is important, and relevance to selected research areas)
5. Methodology (the methodology by which project objectives will be accomplished)
6. Tasks, Schedule and Deliverables (steps that will be followed in executing the methodology, and when they will be completed)
7. Description of the expected research product and contribution to practice (e.g. peer-reviewed publication)
8. Qualifications (the research team's relevant skills and experience that will help ensure success)
9. Budget justification (strong justification should be provided for unusual expenses, e.g., equipment). The extent of student involvement should be clearly stated
10. Reference List (no limit)
11. Budget (1 page.) For UCI proposals, use the form provided in Appendix B. For partner universities, use the budget that is used for the clearance process.
12. Letters of support, participation, or match funding commitment (attached, any number and length) Letters of participation are required for any project that involves data collection from private or public entities, access to private or public facilities, or cooperation of private or public entities.
13. Short bios for all investigators and a list of recent (past 5 years or less) publications and funded research projects (2-page maximum)

Proposals should demonstrate their responsiveness to PSR selection criteria, according to the following guidelines:

<table>
<thead>
<tr>
<th>Selection Criteria</th>
<th>Most Relevant Section(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relevance to research theme areas</td>
<td>Background/Objective</td>
</tr>
<tr>
<td>Quality and research significance</td>
<td>Methodology/Tasks</td>
</tr>
<tr>
<td>Student involvement</td>
<td>Budget justification</td>
</tr>
<tr>
<td>Reasonableness of budget and cost-effectiveness</td>
<td>Budget justification</td>
</tr>
<tr>
<td>Qualifications</td>
<td>Qualifications</td>
</tr>
<tr>
<td>Match funding &amp; potential for other grant funding</td>
<td>Budget justification, Methodology/Tasks</td>
</tr>
<tr>
<td>Prior performance</td>
<td>Prior project accomplishments</td>
</tr>
</tbody>
</table>

Budget Instructions

For UCI: Please use UCI Office of Research guidelines in preparing your budget, see http://www.research.uci.edu/sponsored-projects/contracts-grants-admin/proposal-prep/budget-general-info.html. Contact ITS CAO Cam Tran <camt@uci.edu> for budget assistance. Tuition charges are not subject to F&A charges. The F&A cost rate is 30%.
For partner universities: Please see your university/school/department guidelines for extramural funding budget proposals.

Submission Instructions

There are two methods for submitting your proposal, which must be completed on or before 5:00pm on October 23, 2017.

Form Submission: This is the preferred submission method. Please fill out the brief form at https://goo.gl/UIhbs8 which will collect basic information about your proposal and allow you to upload your proposal documents. Using this form will speed the entry of your proposal into the review process.

Email Submission: If using the above form is not possible for some reason, you may email a PDF copy (max 10 MB) of each proposal to PSR UCI Assistant Director Craig Rindt <crindt@uci.edu> on or before 5:00 pm on October 23, 2017. Please title your PDF file as “PSR_” followed by last name, first initial, university, and a number if more than one is being submitted. For example, a first or single submission would be PSR_SmithJ_UCI. A second submission would be PSR_SmithJ_UCI2.

NOTE to PIs: Please do not submit more than one proposal per email. If more than one proposal is to be submitted, please send each in separate emails, noting the number of the subsequent proposal in the subject line of each email (for example, Second Proposal, Third Proposal, etc.). Proposals received later than the deadline will be rejected. It is the responsibility of the PI to deliver the proposal by the deadline and to confirm receipt.

Please note that all proposals must include a budget; proposals submitted without budgets will be determined to be incomplete and rejected.

PSR will reject proposals that: (1) are received after the deadline, (2) do not conform to eligibility requirements, (3) are incomplete, or (4) do not conform to thematic requirements.

Further Information

For further information, PSR Associate Director at UCI Prof. Stephen Ritchie can be reached at (949) 824-4214 or srtchie@uci.edu. In addition, check www.PSR.org for center organization and links to outside agencies. For further information regarding program rules and procedures contact ITS Assistant Director for Research Coordination, Craig Rindt at (949) 824-1074 or crindt@uci.edu.
Appendices

Appendix A

Caltrans Strategic Goals &
Letters of Support

Appendix B

Budget Information and Forms
Appendix A

Caltrans Strategic Goals

CALTRANS GENERAL STRATEGIC GOALS & LETTERS OF SUPPORT

Caltrans funds research to provide solutions and knowledge that improve California’s transportation system. Caltrans Division of Research, Innovation and System Information (DRISI) manages a comprehensive program to research, develop, test, and evaluate transportation innovations sought by its customers. These innovations in methods, materials, and technologies enable Caltrans to promote safety, enhance mobility and sustainability, improve the management of public facilities and services, and protect public investment in transportation infrastructure.

Caltrans articulates a long-term vision for California's transportation system and implements statewide transportation policy through partnerships with State, regional, and local agencies. The division of transportation planning provides quality planning products, services, and information to support and guide transportation investment decisions.

Planning is conducted at the community, region, and statewide level, and includes:

- Economic Analysis
- Freight Planning
- Rail Planning
- System Planning
- Air Quality Planning

Letters of Support

All letters of support or position statements from Caltrans for support of proposed research must come from Mr. Jim Appleton, headquarters Chief, Division of Research, Innovation and System Information (DRISI). Position statements from any other individual will not be considered an official Caltrans position. Caltrans states that this is not meant to limit researcher engagement with Caltrans functional experts when identifying research needs or scoping proposals. The recommendations of these same staff will be considered when making the final determination of whether or not Caltrans should take a position supporting any given proposal. Any UCI researchers who have already received statements of support from anyone else at Caltrans should send them to Prof Ritchie who will forward them as a group to Caltrans for review and final approval. Contact information for Jim Appleton is as follows:

Jim Appleton, Chief
Division of Research, Innovation and Systems Information
Caltrans
1227 O Street, 5th Floor, MS 83
Sacramento, CA 95814
916-654-8877
916-204-4877 (cell)
Assistant: Wendy Hughey 916-654-9322
Appendix B

Budget Information and Forms
# UCI Budget Form

<table>
<thead>
<tr>
<th>Category</th>
<th>Monthly Salary</th>
<th>% of Time on Program</th>
<th>Number of Months</th>
<th>Budget ($)</th>
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</thead>
<tbody>
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<td>x _______</td>
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<td>x _______</td>
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<tr>
<td>Student Support</td>
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<tr>
<td>Type of Student</td>
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<tr>
<td>Student Support*</td>
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<tr>
<td>Type of Student</td>
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<tr>
<td>Fringe Benefits</td>
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<td></td>
<td>Total _______</td>
<td>_________</td>
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<tr>
<td>Tuition</td>
<td>Units _______</td>
<td>Rate_______</td>
<td>Total _______</td>
<td>_________</td>
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<tr>
<td>Conference Travel</td>
<td>Conference Name/Date _________________________________</td>
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<td>Other Travel</td>
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<td>Materials and Supplies</td>
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<tr>
<td>Equipment (list)</td>
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<tr>
<td>Other Direct Expenses (itemize)</td>
<td>_________________________________</td>
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<tr>
<td>Tuition cost share</td>
<td>Units______</td>
<td>Rate______</td>
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<td>_________</td>
</tr>
<tr>
<td>Overhead (30%)</td>
<td>_________________________________</td>
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<td></td>
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<tr>
<td>TOTAL FUNDS REQUESTED</td>
<td>_________________________________</td>
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<td>_________</td>
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</tbody>
</table>

*Use additional faculty and student lines only if more than one professor or student.

*UCI PSR RFP 1 2017 - 2018*
PSR Cover Page

Title ________________________________________________________________

Theme ____________________________________________________________

Topic Area __________________________________________________________

Caltrans Topic (if applicable) __________________________________________

Principal Investigator ________________________________________________

Mailing Address _____________________________________________________

____________________________________________________

____________________________________________________

E-mail ______________________________________________________________

Phone _____________________________________________________________

Fax _________________________________________________________________

Co-Principal Investigator _____________________________________________

Are you submitting this proposal elsewhere, or are you currently receiving funding in the same area of research? Yes _____ No _____

If yes, please describe circumstances and funding source

Does this proposal comply with the PSR Data Management Plan? Yes No
PSR Center Proposal Evaluation Form

(Provided for information only; form will be used by evaluators)

Proposal Title:

Area:

Principal Investigator:

Referee Number:

Evaluation Criteria:

Please rate proposals in each of the categories below, using the following rating scale:
1 = Well below expectations
2 = Below expectations
3 = Meets expectations
4 = Exceeds expectations
5 = Well above expectations

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>RATING</th>
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</thead>
<tbody>
<tr>
<td>Demonstrated relevance to themes of RFP (a requirement)</td>
<td></td>
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<tr>
<td>Quality and research significance</td>
<td></td>
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<td>Student involvement</td>
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<td></td>
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<tr>
<td>Prior performance on PSR grants (if applicable)</td>
<td></td>
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</tbody>
</table>

Referee’s Funding Recommendation (Place an X on the line by your choice)

Highly recommended  _____

Recommended  _____

Not recommended  _____

Referee Comments (add additional pages as needed):