



University Transportation Research Center
RFP Cover Sheet

Title: HMA Pay Adjustment
Proposal Number: 2012-01
Sponsor: NJDOT
Date Issued: November 2, 2011
Pre-Proposal Meeting: TBD
RFP Due at NJDOT: by December 15, 2011
RFP Closing Date: **December 15, 2011**

If you plan to apply:

1. Please contact Camille Crichton-Summers (camille.crichton-summers@dot.state.nj.us) or Stephanie Nock (609-530-5637 or STEPHANIE.NOCK@dot.state.nj.us) to request a pre-proposal meeting, and so that you will receive information about this meeting if it is held. *This meeting will be your only opportunity to ask questions about this proposal.*

2. If you plan to submit a proposal through UTRC, please notify us by email at peickemeyer@utrc2.org and ckamga@utrc2.org. Please indicate whether you are open to teaming up with faculty at other universities on this project.

Proposal submission guidelines:

Please contact Penny Eickemeyer (peickemeyer@utrc2.org, 212-650-8074) to discuss submission logistics. After UTRC confirms that the proposals' budgets meet UTRC and NJDOT guidelines, please use the UTRC cover sheet available at <http://www.utrc2.org/research/resourcesforpis.php> for submission of printed proposals to NJDOT.

Proposals must be prepared in accordance with NJDOT's Information and Instructions for Preparing Proposals. Please visit: <http://www.state.nj.us/transportation/refdata/research/pdf/techpropresproj.pdf>

For questions about budget preparation, contact: Penny Eickemeyer, peickemeyer@utrc2.org
NJDOT has not specified a budget or timeline for this project. Please note that matching funds up to \$35,000 are available from UTRC for this RFP.

Please visit the NJDOT Research website for revision and important information about this RFP:

<http://www.state.nj.us/transportation/refdata/research/news.shtm>

New Jersey Department of Transportation
Bureau of Research
RESEARCH PROJECT
Request for Proposals
2012 Program

Date of RFP
11/02/2011

Closing Date
12/15/2011

HMA Pay Adjustment

Project No. 2012-01

(Proposals must be prepared in accordance with NJDOT's *Information and Instructions for Preparing Proposals*. Please visit:

<http://www.state.nj.us/transportation/refdata/research/pdf/techpropresproj.pdf>

Revised Proposal Evaluation Forms are available for your information on the website.)

Proposals will be based on the merit of the information contained in the proposal. Budgets will be evaluated separately. Please place three (3) copies of the budget for this project in a separate sealed envelope.

1. RESEARCH PROBLEM STATEMENT, BACKGROUND AND OBJECTIVES

HMA is currently tested and price adjusted for air voids and ride quality compliance. Other factors that determine the quality of a pavement are: quality of the mix at the plant, longitudinal joint quality, bond strength of the pavement layers and performance qualities of the in-place mixture. In order to ensure that the tax payers are getting the best quality, these other factors need to be included in the pay adjustment. Recent pavement projects have been awarded positive pay adjustment (bonus) for ride quality and air voids, but have experienced premature longitudinal joint failure, layer de-bonding and premature cracking or rutting. In order to ensure that these types of failures do not occur, the inclusion of these other factors for quality assurance pay adjustment is needed. All of these quality factors should be part of the final pay adjustment for the HMA. The final pay adjustment should be based on the quality of the entire system of producing and constructing the HMA. Therefore, if one factor is poor, then the final pay adjustment should not be a bonus. Bonus should only be given for HMA that meets or exceeds the requirements of all quality factors. This approach will require an extensive literature search, benchmarking with other states/agencies and developing a new specification. This may result in a change in how the NJDOT evaluates air voids with respect to lot sizes and sampling.

2. TASKS

[Provide a listing of appropriate general tasks divided into phases based on types of work (e.g., laboratory, field) or by year (e.g., year 1, year 2) or other appropriate milestones]

The NJDOT is seeking the insight of proposal responders on how best to achieve the research objectives. Proposers are expected to describe a research effort that can realistically be accomplished as expeditiously as possible. Proposals must present the proposers' current thinking in sufficient detail to demonstrate their understanding of the problem and the soundness of their approach for conducting the required research.

PHASE I – Literature Search

Conduct a literature search of the current state of the practice.

After the award of the project, a more comprehensive literature search should be conducted. At the completion of this literature search, the PI will make a presentation to the Research Project Selection and Implementation Panel to discuss their findings and to discuss the appropriate research approach.

PHASE II – Research Approach and Anticipated Results

Clear description of how you will solve the problem and implement anticipated findings. Work may be divided into phases (e.g., Laboratory, Field or Year 1, Year 2) as necessary to clarify tasks. *Exit Criteria* must be developed during this phase.

3. IMPLEMENTATION AND TRAINING PLAN

The PI must meet with the Research Project Selection and Implementation Panel (RPSIP) and other NJDOT units to present the findings and as appropriate train these personnel in the use the project results. The PI will develop an implementation plan as per the guidelines provided by NJDOT Research Bureau.

4. DELIVERABLES:

- Presentation of Summary of Literature Search Results
- Discussion to Support and Refine the Project Tasks
- Project work plan
- Provide recommendations for any changes to current specifications, test methods, pay adjustments. Provide recommendations for any new quality factors that NJDOT should include in the HMA specifications for pay adjustment
- Provide the test methods/ test procedures for any new quality factors that are recommended for inclusion in the specifications
- Provide the pay adjustment methodology and supporting statistical/economic analysis performed to substantiate the adjustment
- Provide the new specifications including all quality factors, pay adjustments and test methods/procedures.
- Interim Status reports suitable for Senior Leadership if required
- Quarterly Reports and Final report with appropriate tables, graphs and charts in hard copy version, PDF file format, Word, and on CD ROM. Two copies plus one per RSIP member of each presentation, technical memorandum, draft final report and Final Report (10 copies). The Final Report and Tech Brief are due three (3) months before the end date of the project to allow time for review by the Research Project Selection and Implementation Panel. Final Acceptance will be granted upon receipt of ten copies of the approved final report.

5. CONTRACT TIME:

The PI must provide the anticipated research study duration based on the proposed tasks. Consideration should be given to potential impediments so that adjustments are incorporated into the schedule minimizing the need for time extensions.

6. CONTACTS:

Upon request, and subject to staff availability, a meeting may be scheduled with interested parties after the RFP's are distributed to refine the objectives and deliverables and to promote a better understanding of the research needs. Questions on this topic **shall not** be directed to any Research Project Manager, Research Customer, or any other NJDOT person. All questions and answers may be addressed during this meeting (if conducted) or through e-mail. Visit the Bureau of Research website for information about the Bureau of Research. Contact Camille Crichton-Sumners before November 14, 2011 (Camille.CrichtonSumners@dot.state.nj.us) with RFP related questions or to express your interest in requesting or participating in a pre-proposal meeting.

7. DEADLINE

**Proposals (7 single-bound copies) are due at the NJDOT Bureau of Research
No later than 4:00 PM 12/15/2011**

Authorization to Begin Work: -- To be negotiated

8. DELIVERY INSTRUCTIONS:

For private, paid messenger services such as Federal Express, DHL, UPS, etc., or for hand-carried deliveries:

2012 PROPOSAL-NJDOT
New Jersey Department of Transportation
Bureau of Research
1035 Parkway Avenue
Trenton, New Jersey 08625-0600

For U.S. Postal Service mail:

New Jersey Department of Transportation
ATTN: Camille Crichton-Summers
Manager, Bureau of Research
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