



New Jersey Department of Transportation
Bureau of Research
RESEARCH PROJECT
Request for Proposal
2022 – 2023 SPR Program

Project Title: Evaluation of NJDOT Hardened Traffic Paint Markings and Stripes Performance

Posting No.: 2022-04

Date of RFP Announcement: 08/25/2022

Closing Date: 10/13/2022

Proposals must be prepared in accordance with NJDOT's *Supplemental and Proposals guidelines*. Please visit <https://www.state.nj.us/transportation/business/research/guidelines.shtm> for the most current version.

All proposals must also have a corresponding online PreAward Risk Assessment form completed and submitted by the PIs prior to the RFP closing date and time. This online form can be found at: https://www.state.nj.us/transportation/business/research/risk_assessment_forms.shtm

1 - RESEARCH PROBLEM STATEMENT AND OBJECTIVES

1.1 Problem Statement

NJDOT requesting a new research study to obtain and analyze relevant technical and performance data of various pavement marking paints and to determine which product can be used to stripe various roadway surfaces and to withstand the NJ weather and traffic conditions. Due to the change in traffic operations and weather conditions, the hardened pavement marking paints including stripes, markings, thermoplastic, and epoxy stripes needs to be evaluated periodically. There are situations where these markings and stripes are not performing as they planned shortly after being applied on roadways.

1.2 Research Objectives

At minimum, this research study must focus on drying time issues, alternative testing protocols, durability issues, cost benefits, temporary markings and to develop an alternative specification for quick application of paints when supply chain issues arise. Also, this study shall provide a guidance on current specifications and requirements for road markings and stripes paints with respect to sensing capabilities of autonomous vehicles for operational purpose.

1.3 Type of Contract

It is proposed that if the Issuing Office enters into a contract because of this Request for Proposal (RFP), it will be a **Cost Reimbursement, Deliverable-Based** contract containing the Standard Contract Terms and Conditions.

2 - BUDGET and CONTRACT TIME

The **TOTAL** project budget shall not exceed **\$350,000 US Dollars**. Budgets will be evaluated separately, and only after a selection has been made as to which proposal is the most qualified based on technical merit.



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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. Contract time shall include sufficient time for the procurement of subcontractors, as well as no less than three months for Final Report review and acceptance. Please be advised that going forward, new task orders having permissible justification will be allowed no more than a one-time extension with the advent of 2 CFR 200.

A 24-30-month total project duration is preferred.

Please provide a Gantt Chart schedule, by month number (e.g., 1-24), showing tasks start/end, and deliverables. List corresponding deliverables below the chart.

3 - Oral Presentations

Oral online presentations may be requested as part of this RFP. If required, you will be notified by the Bureau of Research to schedule your oral presentation. They will be held at NJDOT headquarters in Trenton, NJ, attended by the Technical Advisory Panel (TAP), and be limited to no more than an hour, including time for questions and answers.

4 – Deadline

Proposals (no hard copies required) are due at the NJDOT Bureau of Research no later than **4:00 p.m. on October 13, 2022**. Electronic proposal documents (preferred pdf) shall be emailed to Research.Bureau@dot.nj.gov with the subject: *RFP-YYYY-XX University – PI's name*.

Approximate Start Date: 01/05/2023. The official start date is the date that the Bureau of Research obtains a signature from the Assistant Commissioner.

5 – CONTACTS

Interested parties shall send all questions related to this RFP to the Research Bureau Manager by sending an e-mail to Amanda.Gendek@dot.nj.gov or by phone (609-963-2242). Questions on this topic **shall not** be directed to any Research Project Manager, Research Customer, or any other NJDOT person. All questions must be received **on or before 09/12/2022 in order to be answered**.

PROPOSAL DELIVERY INSTRUCTIONS:

Electronic proposal documents (preferred pdf) shall be emailed to Research.Bureau@dot.nj.gov with the subject: *RFP-YYYY-XX University – PI's name*.
A confirmation of receipt will be sent via email.