

Prashant V. Ram, PE

Pavement Engineer
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BACKGROUND

Mr. Ram is a Pavement Engineer at Applied Pavement Technology, Inc. (APTech) with over 13 years of engineering experience. He brings a background in cement and concrete materials research and is currently involved in a range of technical projects, from formal research projects on paving materials, evaluation methods, and sustainability to hands-on pavement evaluation, pavement management, and asset management projects.

Much of Mr. Ram's work has focused on the properties and characteristics of concrete materials, concrete durability, pavement performance evaluations, and pavement infrastructure sustainability. For example, he filled the role of Lead Engineer in a study for the Michigan DOT in a study evaluating the cost effectiveness of various pavement preservation treatments used on the state trunkline system. He also served as the Project Manager on a study for the Wisconsin DOT that evaluated the laboratory and field performance of non-cementitious materials for concrete pavement partial-depth repairs. Currently, he is serving as the Lead Engineer for the FHWA Sustainable Pavements Program contract under which he led the efforts in the development of a Road Map for the Sustainable Pavements Program. He was closely involved in the development of series of documents providing guidance information regarding sustainable practices, methods, and techniques for the design, construction, preservation, and maintenance of sustainable pavement systems, and is also engaged in a number of technology transfer and outreach activities.

EDUCATION

- MS, Civil Engineering, Purdue University, Indiana, 2008
- MS, Chemistry, Birla Institute of Technology and Science, India, 2006
- BS, Civil Engineering, Birla Institute of Technology and Science, India, 2006

PROFESSIONAL REGISTRATION

- Professional Engineer, Michigan, 2016

REPRESENTATIVE EXPERIENCE

- Lead Engineer for the FHWA IDIQ contract *Sustainable Pavements Program II*.
 - Lead Engineer for Task Order 1, *Sustainable Pavement Program Roadmap*. Led the development of a roadmap document outlining the future directions of the program.

- Lead Engineer for the 2016 to 2021 Task Order 2, *Establishment, Organization, and Coordination of the Sustainable Pavements Technical Working Group (SPTWG)*. Supported the SPTWG by scheduling and organizing the meetings, providing travel support, facilitating the meetings, and documenting the overall results and action items.
- Lead Engineer for the 2016 to 2018 Task Order 3, *Technology Transfer Toolbox*. Developed a series of technical presentations on various aspects of pavement sustainability. Maintained and updated the FHWA sustainable pavements website and assisted in the development of three Tech Briefs: (a) Pavement Life-Cycle Thinking, (b) Environmental Product Declarations, and (c) Life-Cycle Assessment Data Needs.
- Lead Engineer for the 2018 to 2019 Task Order 4, *Sustainable Pavements Case Studies*. Developed a series of case studies that highlight sustainable pavement technologies.
- Lead Engineer for the 2018 to 2020 Task Order 5, *Environmental Impact Benchmarking Tool*. Participated in the Life Cycle Thinking Task Group, developed the tool's goal and scope document, drafted background report and user manual, finalized and published the tool and documents, and administered meetings.
- Lead Engineer for the 2019 to 2021 Task Order 6, *Sustainability Education and Outreach*. Developing marketing and outreach materials on pavement sustainability, promoting the use of the resources and tools of the Program, and participating in a webinar series.
- Lead Engineer for the 2019 to 2021 Task Order 7, *Pavement Resilience Guidebook*. Conducted literature review and gap analysis, participated in hosting two Peer Exchange meetings, contributed to the draft Guidebook, and developed a webinar.
- Lead Engineer for the FHWA IDIQ contract *Pavement Program Technical Support*.
 - Project Manager and Lead Engineer for the 2020 to 2021 Task Order 8, *Support Demonstrations of a Dielectric Profiling System (DPS) for Asphalt Pavement Density Measurement*. Procuring DPS cart system, providing training to FHWA staff, providing on-call technical support, developing quick guide for users, developing marketing materials and presentations, providing improved GPS and DPS system, providing second DPS cart system, performing technology field demonstrations, providing on-call technical support, developing quick guide for users, and developing quarterly progress reports.
 - Project Engineer for the 2020 to 2022 Task Order 9 *Pavement Roundabouts*. Developing technical briefs, PowerPoint presentations, and quarterly progress reports.
 - Project Engineer for the 2020 to 2022 Task Order 12, *Update of the FHWA Pavement Management Roadmap*. Developing literature review and draft gap assessment report, conducting and participating in surveys, and developing a draft of the updated roadmap.
 - Project Engineer for the 2020 to 2022 Task Order 14, *Successful Practices for Maintaining and Resurfacing Existing Composite Pavements*. Performing peer exchanges, participating in state visits, and developing quarterly and peer exchange reports.

- Project Engineer for the FHWA IDIQ Contract, *Sustainable Pavements Program*.
 - Project Engineer for the 2016 to 2021 Task Orders 1, 3, 5, and 8, *Organization, Coordination, and Facilitation of the SPTWG*. Organizing working group information, participating in the meetings, summarizing meeting minutes, and attending virtual meetings.
 - Project Engineer for the 2012 to 2014 Task Order 2, *Development of a Reference Document for Sustainable Pavement Systems*. Developed the format, table of contents, and final reference document on recommended practices for the design, construction, and rehabilitation of sustainable pavement systems.
 - Project Engineer for the 2009 to 2010 Task Order 4, *Technology Transfer of Information on Sustainable Pavements*. Edited technical briefs on pavement LCA and pavement and materials sustainability, prepared the FHWA Sustainable Pavements website, and delivered webinars.
 - Project Engineer for the 2014 to 2015 Task Order 6, *Development of a Pavement Life-Cycle Assessment (LCA) Framework*. Conducted a literature search and developed a project report.
- Project Engineer for the 2010 Michigan DOT study, *Sustainable Recycled Materials for Concrete Pavement*. Collected and organized construction and performance data for various PCC sections in Michigan. Conducted life-cycle cost analysis to compare performance of PCC sections.