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RESEARCH ENGINEER
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EDUCATION & PROFESSIONAL EXPERIENCE

+ PhD, 2021, Civil Engineering, Auburn University, Auburn, AL
+ MTech, 2017, Civil Engineering, Indian Institute of Technology, Kharagpur, India
+ BE, 2011, Civil Engineering, Andhra University, Vishakapatnam, India
+ Research Engineer, National Center for Asphalt Technology, Auburn, AL, 2022-present
+ Postdoctoral Researcher, National Center for Asphalt Technology, Auburn, AL, 2021-2022

SUMMARY

Dr. Gatiganti is a research engineer at the National Center for Asphalt Technology with over eight years of experience conducting research in life cycle assessment and asphalt materials. By now, Dr. Gatiganti has served as Principal Investigator (PI), co-PI, or researcher on several research projects involving the life cycle assessment of asphalt paving materials and designs. His experience related to this proposal includes serving as a PI and key research engineer conducting life cycle assessments for multiple projects, including the FHWA additive group LCA case study at the NCAT test track, MnRoad reflective cracking challenge project, and FHWA climate challenge projects with ALDOT and MDOT.

RELEVANT EXPERIENCE / EXAMPLE PROJECTS

+ PI, Life Cycle Assessment of Military Flexible Pavements | Funding: $180k, U.S. Army Engineer Research and Development Center
+ PI, Development of a Reliable and Simple Approach to Determine Mix-Specific Burner Fuel Consumption Rates at Asphalt Plants | Funding: $125k, NAPA
+ PI, Evaluating Asphalt's Competitive Advantage in a Sustainable World | Funding: $25k, NAPA
+ Co-PI, Balanced Mix Design and Environmental Benefits of Asphalt Mixtures with Recycled Asphalt Shingles | Funding: $90k, Owens Corning
+ Researcher, LCA of the Additive Group Experiment at the NCAT Test Track | Funding: $120k, FHWA
+ Researcher, Climate Challenge – GHG Emissions for Cold Recycled Mixtures in Mississippi | Funding: $312k, FHWA
+ Researcher, Climate Challenge – GHG Emissions for BMD Mixtures in Alabama | Funding: $312k, FHWA

RELEVANT PUBLICATIONS

+ Gatiganti, S. C., Allain, D., and Bowers, B.F. (2023). "Specimen size effect on dynamic modulus measurement of Cold recycled and full depth reclamation mixtures" Construction and Building Materials Vol 393.
+ Bowers, B. F., Lynn, T., Timm, D. H., Diefenderfer, B. K., & Gatiganti, S. C. (2023). Long-Term Performance and Forensic Evaluation of an Asphalt Pavement with Cold Central Plant Recycled Asphalt. Transportation Research Record, 03611981231186980.
+ Additional publications: https://aub.ie/GatigantiGoogleScholar