



BENJAMIN F. BOWERS, PHD, PE
ASSISTANT PROFESSOR | DEPARTMENT OF CIVIL AND
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EDUCATION & PROFESSIONAL EXPERIENCE

- + PhD, 2013, Civil Engineering, University of Tennessee-Knoxville, Knoxville, TN
- + MSCE, 2010, Civil Engineering, University of North Carolina at Charlotte, Charlotte, NC
- + BSCE, 2009, Civil Engineering, University of North Carolina at Charlotte, Charlotte, NC
- + Assistant Professor, Department of Civil and Environmental Engineering, Auburn University, Auburn, AL, 2018-present
- + Research Scientist, Virginia Transportation Research Council, Virginia Department of Transportation, Charlottesville, VA, 2013-2018
- + Professional Engineer, Virginia No. 0402056634

SUMMARY

Dr. Bowers is an Assistant Professor at Auburn University with over twelve years of experience conducting research and implementing findings in geotechnical and flexible pavement. Bowers' research and education effort is focused predominantly on sustainable pavement materials and resiliency. He has served as Principal Investigator (PI), co-PI, or researcher on over 30 research projects with over \$9 million in total funding. He has authored/co-authored over 30 peer reviewed papers along with numerous technical reports on pavements. His experience related to this proposal includes shaping the asphalt industry's understanding of resilience and helping set their pathway to Net Zero emissions by 2050, PI of multiple >\$1.25M grants on pavement resilience funded by the NOAA Effects of Sea Level Rise program as well as the FAA, leading multiple pavement recycling projects, and helping lead a consortium of states in Climate Challenge projects, along with numerous other projects examining sustainability and resilience.

RELEVANT EXPERIENCE / EXAMPLE PROJECTS

- + PI, Climate Challenge – GHG Emissions for Cold Recycled Mixtures in Mississippi (funded by FHWA).
- + Co-PI, Climate Challenge – GHG Emissions for BMD Mixtures in Alabama (funded by FHWA).
- + PI, Surface Transportation, Sea Level Rise, and Coastal Storms: A Sustainable Path to Increased Resilience | Funding: \$1.5M, NOAA ESLR program.
- + PI, Synthesis of State of Practice and Research Needs for Airfield Asphalt Pavement Resilience | Funding: \$1.25M, FAA APTTP program.
- + PI, NCHRP 14-43 Construction Guide Specifications for Cold Central Plant Recycling and Cold In-place Recycling | Funding: \$250k, NCHRP
- + PI, LCA of the Additive Group Experiment at the NCAT Test Track | Funding: \$120k, FHWA

RELEVANT PUBLICATIONS

- + Cordero, F., LaMondia, J.J., and Bowers, B.F. (2023-expected). "A Performance Measure-based Framework for Evaluating Transportation Infrastructure Resilience" Transportation Research Record. Tentatively accepted.
- + Allain, D., Bowers, B.F., Vargas-Nordbeck, A., and Lynn, T. (2022). "Pavement Recycling in Cold Climates: Laboratory and Field Performance of the MnRoad Cold Recycling and Full Depth Reclamation Experiment." Transportation Research Record 2676(11), p. 545-555.
- + Additional publications: <https://aub.ie/BowersGoogleScholar>