Department of Sustainable Technology & the Built Environment Graduate Student Research Titles

2018-2019

AUTHOR	TITLE
Jordan Holder	Strategies for Inoculating Biochar with Glomus intradices for Use as a Soil Amendment
Raleigh Poe	Improved Exterior Wall Systems for Modular Homes
Justin Linfield	Remote Sensing and Geographic Information System (GIS) Implementation as Viable Green Roof Planning Technologies
Aaron Stiffney	Temperature Reduction Optimization of an Active Water-Cooling System on a Photovoltaic Module
Brittany Auten	Developing a Method of Cost-Benefit Analysis of Sustainable Technologies to Achieve LEED Certification in Commercial Buildings
Chris Stevens	Economic Analysis and Feasibility Study of Retrofitting Conventional Outdoor Lighted Billboards to Solar-Powered LED Lighted Billboards
George Lewis	Assessing Levels of Energy Insecurity Among University Student Renters in Boone, NC
Gordon Miller	Feasibility Analysis of a Habitat for Humanity-Funded, Zero-Energy-Ready Single-Family Housing Community in Watauga County, NC
Jaden Brown	Passive Solar Water Distillation: A System Design Analysis of Price versus Production

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2018-2019

Jon Linck	Experimental Root Zone Heating Design for Greenhouses
Landon Coleman	Market Analysis to Determine Feasibility of a Men's Clothing Business in Hickory, NC
Mason Atkinson	A Preliminary Study of the Perception of Scale in BIM-Based Virtual Reality Environments
Sierra Milosh	Performance Analysis of Appalachian State University's Solar Thermal Systems
Rowan Parris	Feasibility Analysis Using Load Profile Modeling Scenarios of a Deep Decarbonization Plan for New River Light and Power in Boone, NC
Trey Gibson	Analyzing the Building Efficiency of Appalachian State University's Belk Residence Hall
Henry Mull	Initial Performance Evaluation of a Root-Zone Heating System