Kailey Newcome

Originally from Minnesota, Kailey Newcome is working to complete a dual bachelor’s and master’s degree from Vanderbilt University in Nashville, Tennessee, where she is majoring in civil and environmental engineering. She anticipates graduating May 2021.

In summer 2019, Kailey will intern for a second time through the IACMI – The Institute of Composites Internship Program. Her time will be shared between DuPont’s Experimental Station in Wilmington, Delaware, and Vanderbilt University. She will be mentored by DuPont Technical Fellow Alan Wedgewood and Vanderbilt Department Chair of Civil and Environmental Engineering Doug Adams. Her learning experience will focus on measuring thermal conductivity of 3D printed materials and other baseline materials for property determination and defect detection.

Kailey previously interned through IACMI at Vanderbilt University’s Laboratory for Systems Integrity and Reliability (LASIR). She was under the mentorship of Research Engineer David Koester, who taught her about developing mechano-and-electro-luminescent materials compatible with additive manufacturing and 3D printing applications. Additionally, the research she contributed to was recently published in a peer-reviewed scientific journal.

“From an early age, I have wanted a career which would afford me the opportunity to problem-solve where my work would benefit others — through advances in safety, efficiency or cost-effectiveness, or reductions in harm to the environment,” Newcome said. “My summer IACMI internships align perfectly with that desire, and I am excited to be moving in this direction,” she said.

During the school year, Kailey serves as Treasurer for Vanderbilt’s American Society of Civil Engineers (ASCE) Chapter and writes an environmental column for the university’s newspaper. This past May, a paper she authored on diversity and inclusion in STEM placed third in a nationwide ASCE competition.