



Binil Starly, Ph.D.

*Associate Professor of Regenerative
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Binil Starly is currently appointed as a tenured Associate Professor in the Edward P. Fitts Department of Industrial and Systems Engineering at North Carolina State University (NCSU). His broader expertise is in digital design, simulation, and manufacturing process technologies. Currently, his team's work involves studying new biomanufacturing processes, from design to production technologies for regenerative medicine therapies. He believes newer automation processes, particularly intelligent machines and cyber-physical manufacturing processes will impact every manufacturing industry. He has consulted for

aerospace/defense companies, particularly on reverse engineering of components for aging weapon systems, conversion of drawings to digital models for both the military and commercial aviation industry.

He has received the National Science Foundation CAREER award for research in multi-scale biological tissue scaffold systems built from additive manufacturing platforms. He has published over 34 journal publications in the field of design/manufacturing, customized biomedical implants, biofabrication and tissue engineering. For his contributions, he has been awarded the 2011 Society of Manufacturing Engineering Young Manufacturing Engineer Award. He has supervised the research of 14 M.S. and 3 Ph.D. students. He teaches undergraduate and graduate courses related to Engineering Mechanics, Digitally Enabled Design/Manufacturing and Regenerative Medicine Manufacturing.

Binil's formal education began with a B.S. in Mechanical Engineering from the University of Kerala, India and then a Ph.D. degree in Mechanical Engineering from Drexel University, Philadelphia. He then joined the University of Oklahoma in 2006 to develop additive manufacturing platforms for tissue engineering. He then joined NC State in August 2013 to pursue scale-up production of engineered tissue for regenerative medicine.