

USF NEXUS INITIATIVE 2019 AWARD RECIPIENT

Venkat Bhethanabotla

Printing of Electronic and Optical Components on Flexible Substrates

This project will utilize contact printing and direct print additive manufacturing (DAPM) techniques to realize assembly and fabrication, respectively, of semiconducting nanowires and optical interconnects, on flexible substrates. Silicon nanowires, synthesized by conventional methods will be functionalized to assemble in precise locations on flexible substrates, and DAPM techniques will be used to fabricate polymer optical interconnects. These fundamental advances will enable collaboration between the proposing USF and University of Glasgow groups in the area of flexible electronics by leveraging the individual skills and expertise present in both groups.

Partnership:

Ravinder Dahiya, Ph.D.

University of Glasgow (Glasgow, United Kingdom)



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