

USF NEXUS INITIATIVE 2018 AWARD RECIPIENT

Sarath Witanachchi

USF-Botswana Collaborative Research Towards Portable Power Generation in Rural Africa

My project investigates an innovative, new paradigm of energy harvesting by integrating the electrical energy derived from waste-heat in cooking stoves used in tribal villages in Africa by thermoelectric devices with solar panels to enhance the power conversion efficiency beyond what is individually possible. In collaboration with the researchers at the Botswana

International University of Science and Technology (BIUST), this project will lead to the development of working modules that will be tested in the field with the aim of producing efficient portable energy sources to improve the lives of people living in rural Africa.

Partnerships:

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