

<b>Title:</b>	Simulation of biorefinery scenarios for sugarcane lignocelluloses, annexed to existing sugar mills
<b>Abstract:</b>	Biorefineries using sugarcane bagasse and harvest residues as lignocellulosic feedstocks have potential to revitalise the sugar industry. Annexing such biorefineries to existing sugar mills provides for integrated, efficient conversion of lignocelluloses to high value products. A selection of products/processes for inclusion in such biorefineries has been identified. Rigorous simulations for mass&energy balances, sizing of equipment and utilities, and economic viabilities of these alternative processes/products are developed. Alternative processes/products, and combinations thereof, are assessed through such simulation and modelling, to identify preferred products for biorefineries.
<b>Lead institution:</b>	Stellenbosch University
<b>Partner institutions:</b>	-
<b>Student name:</b>	Mieke Nieder-Heitmann
<b>Supervisor name:</b>	Prof JF Görgens
<b>Degree:</b>	MEng
<b>Funded by:</b>	Industry
<b>Start date:</b>	Jan 2016
<b>End date:</b>	March 2018
<b>Feedstock:</b>	Sugarcane lignocelluloses
<b>Value chain products:</b>	Itaconic acid, succinic acid & PHAs
<b>Geographic source of the feedstock:</b>	KZN, MP