



## Stellenbosch University, Department of Process Engineering

Stellenbosch, South Africa

<http://processengineering.sun.ac.za/>

<b>Title:</b>	Co-production of protein, prebiotics and ethanol from Jerusalem artichoke in a biorefinery
<b>Abstract:</b>	Jerusalem artichoke tubers are high in inulin and protein contents, which can be utilised for the production of prebiotics (oligosaccharides of inulin), extracted proteins and ethanol (fermentation of sugar residues). Alternative processing methods to extraction and production of these products are investigated and experimentally optimised in the present project.
<b>Lead institution:</b>	Stellenbosch University
<b>Partner institutions:</b>	-
<b>Student name:</b>	Pfariso Maumela
<b>Supervisor name:</b>	Prof JF Görgens; Dr AFA Chimphango
<b>Degree:</b>	PhD
<b>Funded by:</b>	NRF
<b>Start date:</b>	March 2015
<b>End date:</b>	March 2019
<b>Feedstock:</b>	Jerusalem artichoke
<b>Value chain products:</b>	Prebiotics (oligosaccharides), protein, ethanol
<b>Geographic source of the feedstock:</b>	KZN, WC, MP, FS