



Research Topics in Renewable Energy for 2020

<b>Dosent / Lecturer:</b> Prof. Rong-Jie Wang		<b>Email:</b> <a href="mailto:rwang@sun.ac.za">rwang@sun.ac.za</a>		
		<b>Tel:</b> (021) 808 4335		
<b>Fakulteit / Faculty:</b> Engineering		<b>Department / Department:</b> Electrical & Electronic Engineering		
<b>Navorsingsarea / Area of Research:</b> Electrical Energy Systems				
<b>Algemene beskrywing van navorsingsveld / General description of research area:</b> Special electrical machines, novel topologies of permanent magnet machines, computer-aided design of electrical machines, finite element methods, optimisation methodologies, cooling design and analysis, renewable energy systems. More recently, my work has been focusing on magnetically geared electrical machine technologies.				
<b>Lys van onderwerpe/List of topics:</b>		<b>M.Eng. (Research)</b>	<b>Ph.D.</b>	<b>Funding</b>
Design and Analysis of a Novel Vernier PM Wind Generator		X		Refer to the notes below
Design of a Low Cost Magnetic Gear for Medium-Speed Wind Turbine Drive-Train		X		Refer to the notes below
<b>Spesifieke voorvereistes / Specific requirements:</b> A Masters degree in the relevant scientific field of study is required to enrol for a PhD and an Honours degree in the relevant field is required to enrol for a Masters.				
<b>Befondsing beskikbaar / Funding available:</b> Bursaries may be available for these projects, but cannot be confirmed at this stage.				