

University of the Free State Strategic Academic Clusters
Prestige Doctoral Bursaries
Selection Criteria & Contact Information

Cluster	WATER Management in Water Scarc Areas	New frontiers in Poverty Reduction and Sustainable DEVELOPMENT	Technologies for Sustainable CROP INDUSTRIES in Semi-Arid Regions	Materials and NANOSCIENCES	Advanced BIOMOLECULAR Research
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Field(s) of study supported</p> <p><i>Focus Area descriptions available at</i></p>	<p>The proposed research must address the overall theme of the Cluster (noted above) within one of the Cluster Focus Areas (noted below)</p>				
<ol style="list-style-type: none"> 1. Environmental Water Requirements 2. Disaster Risk Reduction 3. Eco-physiology specialising in plant water relationships and drought adaptations 4. Effect of dewatering activities of iron mines on the availability of water for natural plant 5. Water and salinity management under irrigation: Spatial and temporal properties of water tables and the effect on yield of crops 6. Mulching under centre pivot irrigation: Spatial and temporal effect of mulches on yield and soil water balance components 7. Optimal water-use for development in water-scarce areas 8. Climate Change and Variability in water-scarce areas. <p>http://research.ufs.ac.za/default.aspx?hid=2</p>	<p>FOCUS AREA 1: SOCIALRESILIENCE</p> <ol style="list-style-type: none"> 1 The social aspects of HIV, TB and nutrition 2. Community development 3. Family resilience 3. Community development 4. The narrative study of lives <p>FOCUS AREA 2: ECONOMIC DEVELOPMENT AND REGIONALISM</p> <ol style="list-style-type: none"> 5. Participatory Geographic information Systems 6. Mountain-based development 7. Arid areas and desert development 8. Small towns and rural-urban linkages 9. Small and medium enterprises and social entrepreneurship 10. The impact of universities on regional development <p>FOCUS AREA 3: HUMAN SETTLEMENTS</p> <ol style="list-style-type: none"> 11. Green construction 12. Architecture and heritage <p>http://research.ufs.ac.za/default.aspx?hid=3</p>	<ol style="list-style-type: none"> 1. Production Technologies for Managing Crop Environments . 2. Genetic Technologies for Crop Improvement. 3. Technologies for Adding Value to and Improving Crop Product Quality. <p>http://research.ufs.ac.za/default.aspx?hid=5</p>	<ol style="list-style-type: none"> 1. Nano solid state materials. 2. Petrochemicals. 3. Polymers. <p>http://research.ufs.ac.za/default.aspx?hid=6</p>	<ol style="list-style-type: none"> 1.High Throughput Biology. 2. Bioinformatics. 3. Advanced Cloning Systems. 4. Novel Drugs Discovery. <p>http://research.ufs.ac.za/default.aspx?hid=7</p>	

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Eligibility & selection criteria	<ul style="list-style-type: none"> ✓ South African and foreign citizens may apply ✓ Applicants must hold a 100% research-based Master's degree/ Master's degree by dissertation (not a professional/ structured/ coursework-based Master's degree), or be currently registered for a 100% research-based Master's degree/ Master's degree by dissertation with an envisaged completion date before April 2013. ✓ Applicants must have demonstrated academic excellence/ intellectual potential in their Master's studies, and must have obtained, or expect to obtain, their Master's degree cum laude. ✓ Applicants who already hold a doctoral qualification are not eligible to apply. ✓ At least 60% of all bursaries will be awarded to black and/or female students, and/or researchers with disabilities. ✓ At least 40% of all bursaries will be awarded to students who completed or are currently studying towards their Master's degree at an institution other than the UFS. ✓ No more than 30% of all bursaries will be awarded to non-South African students. 				
Supplementation	<ul style="list-style-type: none"> ✓ Bursary-holders are allowed to hold, with prior UFS permission, supplementary bursaries, grants or emoluments with unlimited values. ✓ Bursary-holders may not hold full-time salaried employment during the tenure of the bursary. ✓ Bursary-holders may be required to undertake a maximum average of 12 hours of teaching, tutorials, research assistance or demonstration duties per week, relevant to their field of study. ✓ Bursary-holders will be required to produce publication outputs based on their doctoral research, of a type and quantity as agreed in advance with their supervisor/ promoter. 				
Value of the bursary	R 180 000.00 per annum				
Max period of support	3 years full time enrolment				
Date and deadlines	<p style="text-align: center;">Application deadline: 24 August 2012.</p> <p>Shortlist candidates will be notified as soon as possible. Some candidates will be expected to prepare full research proposals prior to their interviews. Interviews will take place in Bloemfontein.</p>				
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