

2017 CALL FOR PROPOSALS ANNOUNCEMENT

WRC Call for Proposals for Projects Commencing on 1st April 2018

The WRC hereby announces its annual call for proposals for the financial year commencing on 1 April 2018. The WRC's financial year extends from 1 April to 31 March. All annual project budgets will be required to coincide with this financial year period although start and end dates of contracts are flexible within a financial year. Proposals in response to the **Open Call** can be submitted on-line from 1 May 2017. Proposals in response to the **Directed Call** and associated terms of reference will be opened on the web as they become available. The on-line submission system for **Directed projects** will open on 1 June 2017.

Please familiarise yourself with the information below and in the WRC **Guidelines for Writing WRC Proposals**, before you start preparing an application.

The following table indicates the anticipated distribution of funds **for all new projects**. **This is important to consider when responding to the 2017 call for proposals.**

Please note that these allocations are only an indication of the proposed distribution. The final amounts may differ and are subject to change at the discretion of the WRC Executive.

Research Projects	KSA 1&2	KSA 3	KSA 4	Total (R)
	Water Resources and Ecosystems (R)	Water Use and Waste Management (R)	Water Utilisation in Agriculture (R)	
Directed	1 500 000	1 200 000	600 000	3 300 000
Open	7 000 000	6 000 000	2 520 359	15 520 359
Total	8 500 000	7 200 000	3 120 359	18 820 359

The **deadline** for the submission of both **Open and Directed proposals** is **31 July 2017 at 23:30**. Please ensure that proposals are completed well in advance of the deadline as the volume of last minute submissions could affect the efficiency of the system.

An electronic helpdesk fms-support@wrc.org.za (08:00 – 16:00 on week days) is available should you encounter any problems in completing or submitting the proposal submissions online.

OPEN CALL

Please note that the budget allocations listed below for Open Proposals are only for the first-year budget.

KSA 1&2: WATER RESOURCES AND ECOSYSTEMS

The Open Call budget for 2018/19 is **R4 600 000**

A general request for Open Call proposals addressing the themes in the following programmes:
Please contact the Executive Manager (E-mail shaficka@wrc.org.za).

The following Thrusts and Programmes are available for Open Call proposals in KSA 1&2:

THRUST 1: GOVERNANCE AND INSTITUTIONAL ARRANGEMENTS		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Cooperative governance for water resources management</i>	0	
<i>Programme 2: Policy, science and implementation</i>	400 000	
<i>Programme 3: Water pricing and financing</i>	0	
<i>Programme 4: Gender and equity</i>	0	
<i>Programme 5: Operation & maintenance</i>	600 000	
Total	1 000 000	
THRUST 2: HYDROLOGICAL AND ECOSYSTEM PROCESSES		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Eco and socio-hydrology</i>	250 000	
<i>Programme 2: Data and hydroinformatics</i>	350 000	
<i>Programme 3: Hydrology</i>	1 000 000	
<i>Programme 4: Water security</i>	400 000	
Total	2 000 000	

THRUST 3: WATER RESOURCE AND ECOSYSTEM PROTECTION AND UTILIZATION		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Resource directed measures</i>	0	
<i>Programme 2: Rehabilitation and conservation</i>	400 000	
<i>Programme 3: Water system utilisation and augmentation</i>	300 000	
<i>Programme 4: Environmental Economics and resource accounting</i>	300 000	
Total	1 000 000	
THRUST 4: ENVIRONMENTAL CHANGE AND ADAPTATION		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Urbanization</i>	300 000	
<i>Programme 2: Climate change and variability</i>	100 000	
<i>Programme 3: Landuse planning and changes</i>	400 000	
<i>Programme 4: Environmental risk and disaster management</i>	200 000	
Total	1 000 000	
THRUST 5: RESOURCE QUALITY AND MANAGEMENT		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Water pollution, depletion and human health</i>	400 000	
<i>Programme 2: Emerging contaminants</i>	300 000	
<i>Programme 3: Source water protection</i>	300 000	
Total	1 000 000	
THRUST 6: WATER RESOURCES INNOVATION AND TECHNOLOGIES		
	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Apps</i>	150 000	
<i>Programme 2: Remote sensing and telemetry</i>	150 000	
<i>Programme 3: Environmental sensors and detectors</i>	150 000	
<i>Programme 4: Models and early warning systems</i>	250 000	

Programme 5: Treatment technologies	150 000	
Programme 6: Blue-green technologies and infrastructure	150 000	
Total	1 000 000	

KSA 3: WATER USE AND WASTE MANAGEMENT

The Open Call budget for 2018/19 is **R6 000 000**

A general request for Open Call proposals addressing the themes in the following programmes: Please contact the Executive Manager (E-mail jayb@wrc.org.za). The following Thrusts and Programmes are available for Open Call proposals in KSA 3:

THRUST 1: WATER SERVICES – INSTITUTIONAL AND MANAGEMENT ISSUES		
	Budget 2018/19 (R)	Total contract budget (R)
This thrust will only be opened for open proposals.	0	
THRUST 2: WATER SUPPLY AND TREATMENT TECHNOLOGY		
Programme 1 to 4: Priority will be given to proposals that cover the following themes: <ul style="list-style-type: none"> • Strategic interventions for the successful implementation of water reuse/desalination in South Africa • Innovations in community water supply and treatment • Development of rapid detection methods for water quality monitoring • Antimicrobial resistance in water – understanding the fate and transport of ABR and ARG in water environments; gene transfer studies; identification and characterisation of exposure routes to ABR and ARG • Risk characterisation/assessment protocols and identification of measures to mitigate and manage emerging threats in water • Digital solutions for the water industry 	2 000 000	
Total	2 000 000	
THRUST 3: SUSTAINABLE MUNICIPAL WASTEWATER MANAGEMENT AND SANITATION		
	Budget 2018/19 (R)	Total contract budget (R)

<p>Programme 1 to 5:</p> <p>Priority will be given to proposals that fall under the following themes:</p> <ul style="list-style-type: none"> • New & emerging low energy treatment options for wastewater • Biomimicry based concepts for wastewater treatment • Wastewater bio-refinery technologies & innovations • Water sensitive design concepts for settlement planning • Sanitation: top priority will be given to proposals that: <ol style="list-style-type: none"> 1) Back-end toilet processors for off-grid toilets 2) In-situ treatment of faecal sludge 3) Demonstration of business-linked management models for off-grid solutions specifically linked to the re-use of benefited waste streams. 	2 000 000	
Total	2 000 000	
THRUST 4: SUSTAINABLE AND INTEGRATED INDUSTRIAL WATER MANAGEMENT		
	Budget 2018/19 (R)	Total contract budget (R)
<p>Programme 1, 2 and 4:</p> <p>These three programmes will be open and prioritised during the open call. (Programme 3 will be open, but will not be a priority.)</p> <p>Top priority will be given to proposals that fall under the theme: Innovative and appropriate funding and / or institutional models for public/private partnerships</p>	1 000 000	
Total	1 000 000	
THRUST 5: MINE WATER TREATMENT AND MANAGEMENT		
	Budget 2018/19 (R)	Total contract budget (R)
<p>Programme 1, 2, 3, 4 and 5:</p> <p>These programmes will be open during the open call.</p>	1 000 000	
Total	1 000 000	
THRUST 6: WATERSMART FUND		
	Budget 2018/19 (R)	Total contract budget (R)
This thrust is open for 2017/18	0	

KSA 4: WATER UTILISATION IN AGRICULTURE

The Open Call budget for 2018/19 is **R2 520 359**

A general request for Open Call proposals addressing the themes in the following programmes:
Please contact the Executive Manager (E-mail gerhardb@wrc.org.za). The following Thrusts and Programmes are available for Open Call proposals in KSA 4:

THRUST 1: WATER UTILISATION FOR FOOD, FORAGE AND FIBRE PRODUCTION		
Project title (Open call)	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 2: Fitness-for-use of water for crop production, livestock watering and aquaculture</i>		
Further improvements to the risk based approach for assessing irrigation water quality guidelines	280 700	
Development of a risk based approach for assessing livestock watering and aquaculture water quality guidelines	330 700	
Total	611 400	
THRUST 2: WATER UTILISATION FOR FUELWOOD AND TIMBER PRODUCTION		
Project title (Open call)	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Water-efficient production methods and systems in agro-forestry, woodlands and forestry plantations</i>		
No call for proposals	0	
THRUST 3: WATER UTILISATION FOR POVERTY REDUCTION AND WEALTH CREATION IN AGRICULTURE		
Project title (Open call)	Budget 2018/19 (R)	Total contract budget (R)
<i>Programme 1: Sustainable water-based agricultural activities in rural communities</i>		
Assessing, enhancing and enabling entrepreneurial involvement of women and youth in sustainable agricultural water management for food production, establishing small businesses and employment opportunities	455 170	
Dissemination of knowledge, technology and practices for improving water productivity in rain-fed cropping systems	230 700	

Programme 2: Integrated water management for profitable farming systems		
Assessment of the basis of water allocation (related to estimating water use for crop rotations) on selected water stressed irrigation schemes in humid, semi-humid and areas with application of SAPWAT	230 989	
Knowledge dissemination, technology exchange, training and demonstration of specified topics/themes in agricultural water management to encourage uptake and implementation of research based knowledge	280 700	
Total	1 197 559	
THRUST 4: WATER RESOURCE PROTECTION, RESTORATION AND RECLAMATION IN AGRICULTURE		
Project title (Open call)	Budget 2018/19 (R)	Total contract budget (R)
Programme 1: Sustainable water resource use on irrigation schemes and within river catchments		
No call for proposals	0	
Programme 2: Impact assessment and environmental management of agricultural production		
Irrigation and drainage management to reduce the impact of extreme events or mitigation of droughts and floods	380 700	
Evaluation of the management and impact of the quantity and quality of water for new agri-parks in selected provinces of South Africa	330 700	
Total	711 400	

DIRECTED CALL

The call for Directed projects and full details such as budget allocations, time frames and terms of reference will be posted on the web as the ToR's become available. The system will open for submissions on 1 June 2017. It is important to take note of the titles of the planned Directed projects in order to avoid preparing and submitting a bid in the Open Call when a similar Directed project is planned.

TITLES FOR PLANNED DIRECTED PROJECTS KSA 1&2: WATER RESOURCES AND ECOSYSTEMS

	Budget 2018/19 (R)	Total Contract Budget (R)
THRUST 1: GOVERNANCE AND INSTITUTIONAL ARRANGEMENTS		
<i>ToRs will be available later in the year (August-September)</i>	500 000	1000 000
THRUST 5: RESOURCE QUALITY AND MANAGEMENT		
<i>ToRs will be available later in the year (August-September)</i>	500 000	1000 000
THRUST 4: ENVIRONMENTAL CHANGE AND ADAPTATION		
<i>Programme 2: Climate change and variability</i>		
Impacts of climate change in determining the ecological reserve.	500 000	500 000
TOTAL	1 500 000	2 500 000

TITLES FOR PLANNED DIRECTED PROJECTS KSA 3: WATER USE AND WASTE MANAGEMENT

	Budget 2018/19 (R)	Total Contract Budget (R)
THRUST 3: SUSTAINABLE MUNICIPAL WASTEWATER AND SANITATION		
<i>Programme 5: Sanitation Technology and Innovations</i>		
Sanitation at the workplace – evaluating existing sanitation infrastructure at public, commercial, mining and industrial workplaces	200 000	500 000
Country-Wide Shit-Flow Diagram: Establishing National Excreta Flows in South Africa	300 000	1 000 000
THRUST 4: SUSTAINABLE AND INTEGRATED INDUSTRIAL WATER MANAGEMENT		
<i>Programme 3: Quantification, Prediction and Minimization of Water Use and Waste Production</i>		
Natsurv 16: Water and wastewater management in the power generating industry (Edition 2)	250 000	1 130 000

Natsurv 19: Water and wastewater management in the fruit and vegetable processing industry (Edition 2)	250 000	1 130 000
THRUST 5: Mine Water Treatment and Management		
<i>Programme 2: Regulatory, management and institutional arrangements</i>		
Best practice guide for attaining regulatory approval of irrigation as a large scale, sustainable use of mine water	200 000	1 000 000
TOTAL	1 200 000	4 760 000

TITLES FOR PLANNED DIRECTED PROJECTS KSA 4: WATER UTILISATION IN AGRICULTURE

	Budget 2018/19 (R)	Total Contract Budget (R)
THRUST 1 : Water utilisation for food, forage and fibre production		
<i>Programme 1 : Water-efficient production methods in relation to soils, crops and technology in rain-fed and irrigated agriculture</i>		
Quantifying water use of mature Pecan Nut trees and orchards in selected irrigation areas of Northern Cape	300 000	2 000 000
Investigating the potential of fixed and draped netting technology for increasing water use productivity and water savings in full bearing apple orchards under micro-irrigation	300 000	1 500 000
TOTAL	600 000	3 500 000