



## Expression of Interest EOI 2018-19

### Part 1- General Details

		<b>EOI ID</b>	<b>1819-EOI-0169</b>	
<b>EOI Title: (max 80 char)</b>	Ready to use soil test to manage black root rot risks			
<b>Type of Research</b>	Applied			
<b>Proposed Start Date:</b>	01/07/2018	<b>Proposed Cease Date:</b>	30/06/2020	
<i>Please refer to CRDC's Strategic R&amp;D Plan 2013-2018 for the following.</i>				
<b>CRDC Program</b>	1. Farmers			
<b>CRDC Theme</b>	1.1 Successful crop protection			
<b>CRDC Strategy</b>	1.1.2 Testing practices that deliver improved management of insect pests, weeds and diseases.			
<i>Please identify the relevant Measure of Success as outlined in the CRDC Strategic R&amp;D Plan.</i>				
<b>CRDC Measure of Success:</b>	85% of farmers adopting improved practices that reduce the reliance on pesticide inputs.			
<b>Science and Research Priorities</b>	Food(3i) enhanced food production through: novel technologies, such as sensors, robotics, real-time data systems and traceability, all integrated into the full production chain.	50 %	Soil and Water(2) better understanding of sustainable limits for productive use of soil, freshwater, river flows and water rights, terrestrial and marine ecosystems.	50 %
<b>Rural R&amp;D Priorities</b>	Advanced technology, to enhance innovation of products, processes and practices across the food and fibre supply chains through technologies such as robotics, digitisation, big data, genetics and precision agriculture;			
<b>R&amp;D Manager:</b>	Susan Maas	<b>EOI Date:</b>	18 August 2017	

### Part 2 –Expression of Interest Requirements

<b>Issue:</b> Black root rot remains an issue for many growers, especially those in the expanding southern regions of NSW. The shorter and sometimes cooler climatic conditions can favour the disease resulting in the young seedlings' inability to compensate for the delays in plant growth and maturity. The capacity to predict the risk for black root rot will allow growers to make informed decisions about whether to return to cotton, or introduce appropriate non-host crop. CRDC has previously invested a small amount in a molecular test, however this has not been validated for other regions, or linked directly to yield.				
<b>Outcomes:</b> Growers and consultants have access to commercial test to inform their decision whether to plant based on black root rot risk.				
<b>Project description:</b> This project will deliver a soil test that will inform growers and consultants on their Black root rot risk. The test will be validated for multiple regions and across a range of disease severities; The test may consider the interaction with other microbes in determining black root rot risk.				
<b>Project Investment:</b> Budget indicated is maximum available. Where the FRP only seeks to address some of the outcomes, the budget will need to reflect this. Overseas travel is not to be included in FRP budgets unless it directly relates to a project output and is an explicit milestone. Otherwise overseas travel must be made as a separate travel application.				
Year	2018-19	2019-20	2020-21	
Indicative budget (up to)	\$100,000	\$100,000	\$ 0	

### **Part 3 – Selection Criteria**

The following selection criteria will be used by the CRDC to assess the full research proposals (FRPs) received for each Expression of Interest.

**1. A sound understanding of the nature and importance of the outcome to the Australian cotton industry:**

The research applicant must address the Issue, Outcome and Project Description in terms of the CRDC Strategic Plan and demonstrate understanding of the impact on the Australian cotton industry.

**2. Soundness and clarity of the proposed R&D methods to address project deliverable outcomes:**

The research applicant must describe how the research methodology employed will enable the project outcomes to be delivered

**3. Demonstrated capacity of the nominated researcher/s to provide project coordination, management, monitoring and evaluation for the timely delivery of high quality outputs:**

The research applicant must describe the research team's project management skills and experience and may include a recent example of a completed project. They must detail the monitoring and evaluation strategy which should include any steering committees to co-ordinate collaborative research, links with CottonInfo, CGAs, Cotton Australia, etc and any additional reporting outside the 6 monthly Progress Reports.

**4. Demonstrated track record, technical knowledge and experience of all key personnel in the research area:**

The research applicant must describe the project research team's technical skill and experience relevant to the project and methodologies proposed.

**5. A demonstrated capacity to effectively communicate project outcomes to diverse stakeholders within the Australian cotton industry:**

The research applicant must describe the communication skills and existing communication channels that the research team use to communicate project outcomes to the Australian cotton industry. The new applicants to the cotton industry should provide an example of industry communication from a recent project.

**6. Demonstrated ability of the project team to form productive networks and links to build on national and international research already undertaken in related areas:**

The research applicant must describe existing networks that the research team use for collaboration with other researchers and an ability to develop new networks as research knowledge increases.

**7. The cost effectiveness of this project including cash and in-kind commitments from the applicants and leverage through domestic or international linkages that are useful if not essential to progress the project:**

The research applicant should demonstrate market value and market fairness for the proposed budget and comment on the leverage achieved through collaboration and in-kind support.

**8. Project demonstrates collaboration between organisations or research groups:**

The research applicant must describe the existing or proposed collaboration with other researchers, research groups or committees and the Australian cotton industry.