

## Expression of Interest EOI 2019-20

### Part 1 - General Details

		<b>EOI ID</b>	<b>EOI - 0201</b>
<b>EOI Title:</b> (max 80 char)	Sustainable insect management through improved insect resistance monitoring		
<b>Type of Research</b>	Applied		
<b>Proposed Start Date:</b>	01 July 2019	<b>Proposed Cease Date:</b>	30 June 2022
<i>Please refer to CRDC's Strategic R&amp;D Plan 2013-2018 for the following.</i>			
<b>CRDC Goal</b>	1. Increase productivity and profitability on cotton farms		
<b>CRDC Key Focus Area</b>	1.3 Protection from biotic threats and environmental stresses		
<b>CRDC Activities</b>	1.3.2 Improved identification, surveillance and management systems for pests, diseases and weeds, and environmental stresses		
<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>	New management practices and systems are available for growers, consultants and industry		
<b>Rural and R&amp;D Priorities</b>	Biosecurity		
<b>Strategic Research Priorities</b>	3a. Optimise food and fibre production using our land and marine resources		
<b>CRDC NSRP</b>	1.3.3 - Food - Enhanced production through enhanced biosecurity.		
<b>R&amp;D Manager:</b>	Susan Maas	<b>EOI Due Date:</b>	12 October 2018

### Part 2 –Expression of Interest Requirements

<b>Issue:</b> Protecting yield and quality from insect and mite pests remains important for the cotton industry in the Bollgard 3 era, and hence resistance to chemistries used to manage these pests remains a threat. The cotton industry has implemented an Insecticide Resistance Management Strategy (IRMS) to manage the risk of resistance in key pests. The results from the insecticide and miticide resistance monitoring programs, carried out during the season, are used to inform this process of changes in field resistance levels. Resistance monitoring also serves to detect biosecurity incursions particularly for pests such as SLW where identifying a new threat in the field may otherwise be delayed.				
<b>Outcomes:</b> Industry is able to proactively manage insecticide resistance through an IRMS that is based on science.				
<b>Project description:</b> This program will deliver a cost effective insecticide resistance monitoring for key cotton pests (including Helicoverpa spp., mirids, aphids, mites, thrips, SLW). Monitoring SLW will also encompass virus and parasitoid monitoring to support sustainable management and biosecurity preparedness. Efficiencies are sought through transitioning to molecular testing where possible, focusing only on insecticides relevant to a modern cotton IPM system, and timing of screening (annual/bi-annual) for pests/products to be based on risk. Samples will be collected from all cotton regions.  This program will also explore new and novel approaches and/or technologies to improve resistance monitoring or understanding of management practice (e.g. spray application) on insecticide resistance. This is a program of works that may be delivered through multiple projects that are complementary and collaborative. Cross commodity collaboration is encouraged.				
<b>Expected Project and Communication Outputs:</b> Annual update to tech panel to inform IRMS.				
<b>Project Investment:</b>				
<b>Year</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>TOTAL</b>
Indicative budget (up to)	\$600,000	\$600,000	\$600,000	\$1,800,000

### **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.

For information on how to apply, please refer to: [www.crdc.com.au/for-researchers](http://www.crdc.com.au/for-researchers)

*Please note that while the Cotton Research and Development Corporation (CRDC) has released these expressions of interest, due to ongoing drought conditions and the potential impact on CRDCs forward budget, the Corporation may not be in a position to fully support all of the proposals advertised. CRDC has released the full range of EOIs in an endeavour to remain as flexible and opportunistic as possible. Where CRDC may not be in a position to fully support proposals received, we will work with our valued research partners to identify alternative investment options.*