



## Expression of Interest EOI 2018-19

### Part 1- General Details

		<b>EOI ID</b>	<b>1819-EOI-0168</b>
<b>EOI Title:</b> (max 80 char)	Identifying sensors for better IPM in cotton		
<b>Type of Research</b>	Blue Sky		
<b>Proposed Start Date:</b>	01/07/2018	<b>Proposed Cease Date:</b>	30/06/2021
<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.	100 %	
<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>	The ability to accurately assess pest and beneficial populations, as well as plant growth/damage is key to making good IPM decisions. In a similar way that improved monitoring capacity has improved water use efficiency, sensors for pest management is likely to lead to improved IPM.		
<b>Outcomes:</b>	Improved pest management through improved monitoring of pests, beneficials and crop physiology.		
<b>Project description:</b>	This project will investigate technologies to improve pest management decision making. It should consider testing technologies available in other cropping systems, as well as developing new technologies. In addition to development and field testing, this project should incorporate processes to support rapid adoption of existing technologies as well as development of business case (evaluation of the technical and economic benefits) for new technologies.		
<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.		
<b>Year</b>	2018-19	2019-20	2020-21
<b>Indicative budget (up to)</b>	\$140,000	\$140,000	\$140,000

### **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.