



**SCRA-ACADEMIA COLLABORATION TEAM (SACT)  
COLLABORATIVE RESEARCH GRANT**

**INFORMATION SESSION**

**JUNE 30, 2020**

Thank you for joining us. The webinar will begin at 11:00 AM.



**SCRA-ACADEMIA COLLABORATION TEAM (SACT)  
COLLABORATIVE RESEARCH GRANT**

**INFORMATION SESSION**

**JUNE 30, 2020**

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# AGENDA

TOPIC	DURATION
<b>I. SCRA OVERVIEW</b> <ul style="list-style-type: none"><li>Support for Academia, Entrepreneurs, and Industry</li></ul>	<b>10 MINUTES</b>
<b>II. REVIEW FY20 COLLABORATIVE RESEARCH GRANT</b> <ul style="list-style-type: none"><li>SACT Overview</li><li>Scope</li><li>Eligibility Criteria</li><li>Funding Amounts</li><li>Application Process</li><li>Review Criteria</li><li>Timeline</li></ul>	<b>30 MINUTES</b>
<b>III. Q&amp;A</b>	<b>20 MINUTES</b>



# SCRA FUELS SOUTH CAROLINA'S INNOVATION ECONOMY

...by accelerating technology-enabled growth in research, academia, entrepreneurship and industry.

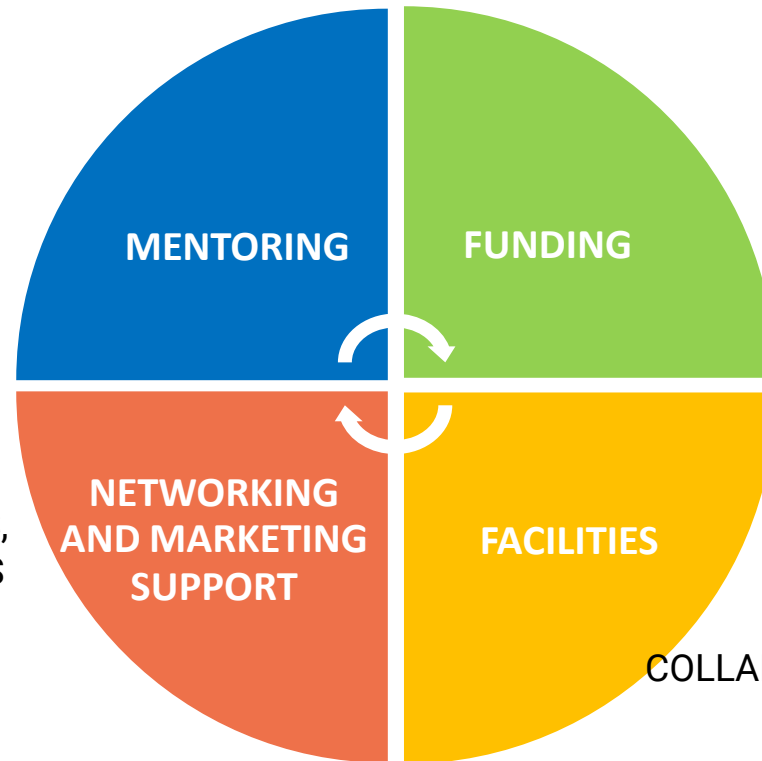
# TYPES OF SUPPORT



MENTORING AND  
SUPPORT FROM  
SCRA AND  
RESOURCE PARTNERS



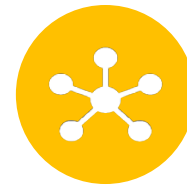
RESOURCE PARTNERS,  
NETWORKING EVENTS  
AND MARKETING  
SUPPORT



GRANTS AND  
INVESTMENTS

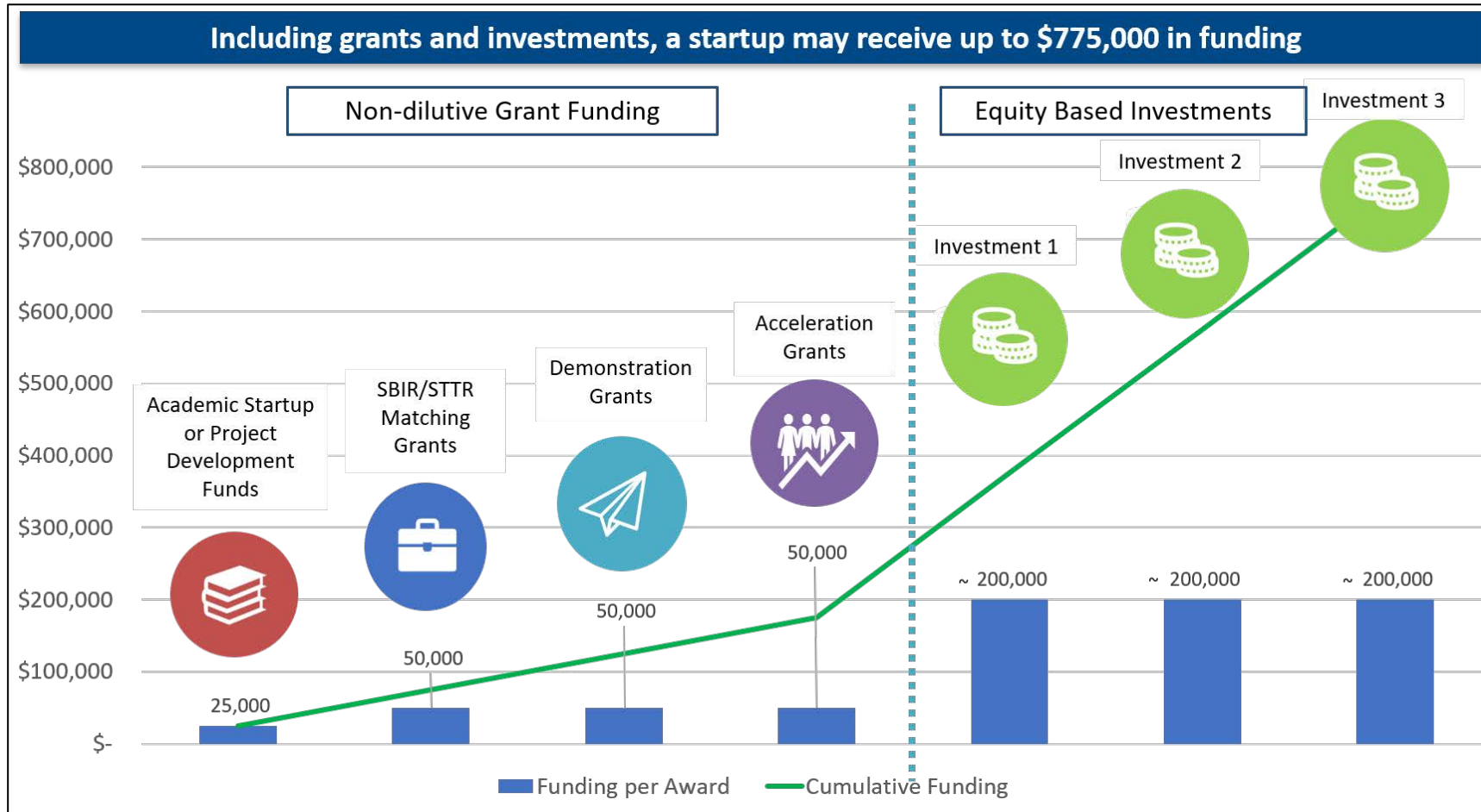


WET LABS,  
MFG LABS,  
OFFICE SPACE,  
COLLABORATION SPACE



# SCRA FUNDING: STARTUPS

<https://www.scra.org/funding/>



# SCRA FUNDING: APPLIED RESEARCH

<https://www.scra.org/funding/>

## **Maturation & Prototyping Matching Grants Up to \$15,000**

- Eligibility: SC-based academic applied research
- Matches academic institutional funds to:
  - Accelerate applied research
  - Prototype and test technologies at SC technical colleges
- Submitted by institution's technology transfer office
- OPEN FALL 2020

## **SCRA Academia Collaboration Team (SACT) Grants Up to \$1,800,000**

- Eligibility: Academic researcher at a public SC institution
- Collaboration with additional public SC institutions increases funding amount
- OPEN NOW

# SCRA-ACADEMIA COLLABORATION TEAM (SACT) COLLABORATIVE RESEARCH GRANT

## IDEAL SCOPE:

- ❑ Multi-institutional collaboration among South Carolina institutions of higher education to achieve greater impact, reach, and efficiency across the state;
- ❑ Public/private partnerships that leverage interests, assets, and expertise in a manner that fosters sustainable growth of the state's innovation economy;
- ❑ Research that is differentiated at the national or regional level; and
- ❑ Innovations that generate a defensible and differentiated position in the marketplace.





# SCOPE: RESEARCH FIELD TOPICS



## A. MEDICAL DEVICES\*

- Diagnostics** (in vitro/molecular, biosensors, imaging)
- Digital Health and Analytics** (device software function, health IT, medical device data systems, medical device interoperability, software as a medical device (SaMD), telemedicine, wireless medical devices)
- Subspecialties** Cardiovascular, Chronic Disease Management (metabolic diseases, respiratory diseases), Neurology/Brain Injury, Orthopedics, Pain Management, Respiratory, Women's Health

## B. REGENERATIVE MEDICINE

- Bioprinting/Production** (cells, tissues, organs, substrates for all)

## C. STATE-WIDE BIOREPOSITORY

- State-wide Biorepository** that will collect appropriately consented patient samples that can be used for research purposes, including generating data for future funding proposals.

# SCOPE: RESEARCH FIELD TOPICS



- Logistics/Risk Management/Supply Chain Management: must involve some aspect of Industry 4.0
- Smart Data and Cloud Computing for Manufacturing (Future Cyber-Physical Manufacturing Research)
- IIoT: creation of innovations including smart products, smart production systems, smart factories, and smart logistics running in a decentralized and dynamic fashion

# SCOPE: RESEARCH FIELD TOPICS



## CYBER-SECURITY

- Information security and adaptive incident analysis\*
- Cybersecurity of real-time manufacturing and industrial processes
- Innovative security and access solutions for healthcare
- Software technology that helps solve human behavior problems

*\***Adaptive Incident Analysis** involves developing automated responses to security breaches that can be immediate and do not require human intervention, such as automatically disabling access privileges and creating firewalls until a human element is able to respond.*

# APPLICATION CRITERIA

- ❑ USE APPROPRIATE SOLICITATION (RU or CTU/TC)
- ❑ MAXIMUM OF TWO APPLICATIONS PER INSTITUTION
- ❑ COLLABORATIONS
  - Collaboration with a minimum of two degree-conferring, public institutions of higher education in South Carolina, ***one of which is the lead applicant***
  - Includes RUs, CTUs, and TCs
  - Collaborations with other eligible applicants under a single solicitation expands the allowable award amounts



# APPLICATION CRITERIA (cont.)

## ❑ DUPLICATE RESEARCH PROPOSALS

- Duplicate applications from collaborating institutions will be returned to identify a single Lead Applicant for resubmission

## ❑ PRINCIPLE INVESTIGATORS (PIs)

- PIs under an active SACT grant are ineligible

## ❑ COST-SHARE

- Cost share not required, but strongly encouraged
- Cost-share from the institution must be cash
- Cost share from industry may be cash or in-kind contributions
- Letters of Commitment must be submitted with Full Application



# FUNDING AMOUNTS

No. of Eligible Applicants per Proposal	RU Solicitation		CTU/TC Solicitation	
	Max. Award Amount	Avg. Annual Tranche	Max. Award Amount	Avg. Annual Tranche
One	\$600,000	\$200,000	\$300,000	\$100,000
Two	\$1,200,000	\$400,000	\$600,000	\$200,000
Three or more	\$1,800,000	\$600,000	\$900,000	\$300,000
Total Funds Available	\$1,800,000		\$900,000	
Minimum Award	\$600,000		\$300,000	

## DISBURSEMENT OF FUNDS

- Funds dispersed annually, provided the related milestones have been achieved as outlined in the budget proposal
- Recipients must submit interim progress reports demonstrating achievement of the project's milestones and expenditure of amounts already received

# FUNDING SCENARIO #1

- MUSC submits application with one collaboration:
  - College of Charleston

Lead Applicant	1. MUSC			
No. of Eligible Applicants per Proposal	RU Solicitation		CTU/TC Solicitation	
	Max. Award Amount	Avg. Annual Tranche	Max. Award Amount	Avg. Annual Tranche
One	\$600,000	\$200,000	\$300,000	\$100,000
Two	\$1,200,000	\$400,000	\$600,000	\$200,000
Three or more	\$1,800,000	\$600,000	\$900,000	\$300,000
Total Funds Available	\$1,800,000		\$900,000	
Minimum Award	\$600,000		\$300,000	

Collaborating Institutions

- College of Charleston

# FUNDING SCENARIO #2

- MUSC submits application with two collaborations:
  - UofSC
  - Midlands Technical College

Lead Applicant		1. MUSC		
No. of Eligible Applicants per Proposal	RU Solicitation		CTU/TC Solicitation	
	Max. Award Amount	Avg. Annual Tranche	Max. Award Amount	Avg. Annual Tranche
One	\$600,000	\$200,000	\$300,000	\$100,000
Two	\$1,200,000	\$400,000	\$600,000	\$200,000
Three or more	\$1,800,000	\$600,000	\$900,000	\$300,000
Total Funds Available	\$1,800,000		\$900,000	
Minimum Award	\$600,000		\$300,000	

Collaborating Institutions

2. UofSC

- Midlands Technical College



# FUNDING SCENARIO #3

- Winthrop University submits application with two collaborations:
  - Clemson
  - Greenville Technical College

Lead Applicant		1. Winthrop		
No. of Eligible Applicants per Proposal	RU Solicitation		CTU/TC Solicitation	
	Max. Award Amount	Avg. Annual Tranche	Max. Award Amount	Avg. Annual Tranche
One	\$600,000	\$200,000	\$300,000	\$100,000
Two	\$1,200,000	\$400,000	\$600,000	\$200,000
Three or more	\$1,800,000	\$600,000	\$900,000	\$300,000
Total Funds Available	\$1,800,000		\$900,000	
Minimum Award	\$600,000		\$300,000	

Collaborating Institutions

- Clemson

2. Greenville Technical

# FUNDING SCENARIO #4

- Francis Marion University submits application with three collaborations:
  - Coastal Carolina University
  - Florence Darlington Technical College
  - Horry Georgetown Technical College

Lead Applicant		1. Francis Marion		
No. of Eligible Applicants per Proposal	RU Solicitation		CTU/TC Solicitation	
	Max. Award Amount	Avg. Annual Tranche	Max. Award Amount	Avg. Annual Tranche
One	\$600,000	\$200,000	\$300,000	\$100,000
Two	\$1,200,000	\$400,000	\$600,000	\$200,000
Three or more	\$1,800,000	\$600,000	\$900,000	\$300,000
Total Funds Available	\$1,800,000		\$900,000	
Minimum Award	\$600,000		\$300,000	

Collaborating Institutions

- Coastal Carolina University
- Florence Darlington Technical
- Horry Georgetown Technical

# APPLICATION PROCESS

APPLICATION STEP	DATES
<p><b>I. PRE-APPLICATION</b></p> <ul style="list-style-type: none"> <li>■ Pre-Application Form: <a href="http://www.scra.org/sact-grant">www.scra.org/sact-grant</a></li> <li>■ Institution is responsible for selecting maximum of (2) Pre-Applications                             <ul style="list-style-type: none"> <li>○ RU: VP/Provost of Research</li> <li>○ CTU/TC: VP/Provost of Academic Affairs</li> </ul> </li> <li>■ Submit completed Pre-Applications to SCRA by 5:00 PM EDT on Sep 15, 2020</li> </ul>	<p><b>SEP 15, 2020</b></p>
<p><b>II. FULL APPLICATION</b></p> <ul style="list-style-type: none"> <li>■ SCRA will review Pre-Applications</li> <li>■ Full Applications by invitation only</li> <li>■ Instructions provided by Sep 30, 2020</li> </ul>	<p><b>DEC 15, 2020</b></p>
<p><b>III. REVIEW, AWARD, AND CONTRACTING</b></p> <ul style="list-style-type: none"> <li>■ External Technical Review: January 2021</li> <li>■ Internal Strategic Review: February 2021</li> <li>■ Notice of Award: March 2021</li> </ul>	<p><b>Q1 2020</b></p>

# REVIEW CRITERIA

## Technical Criteria Reviewed by External Reviewers

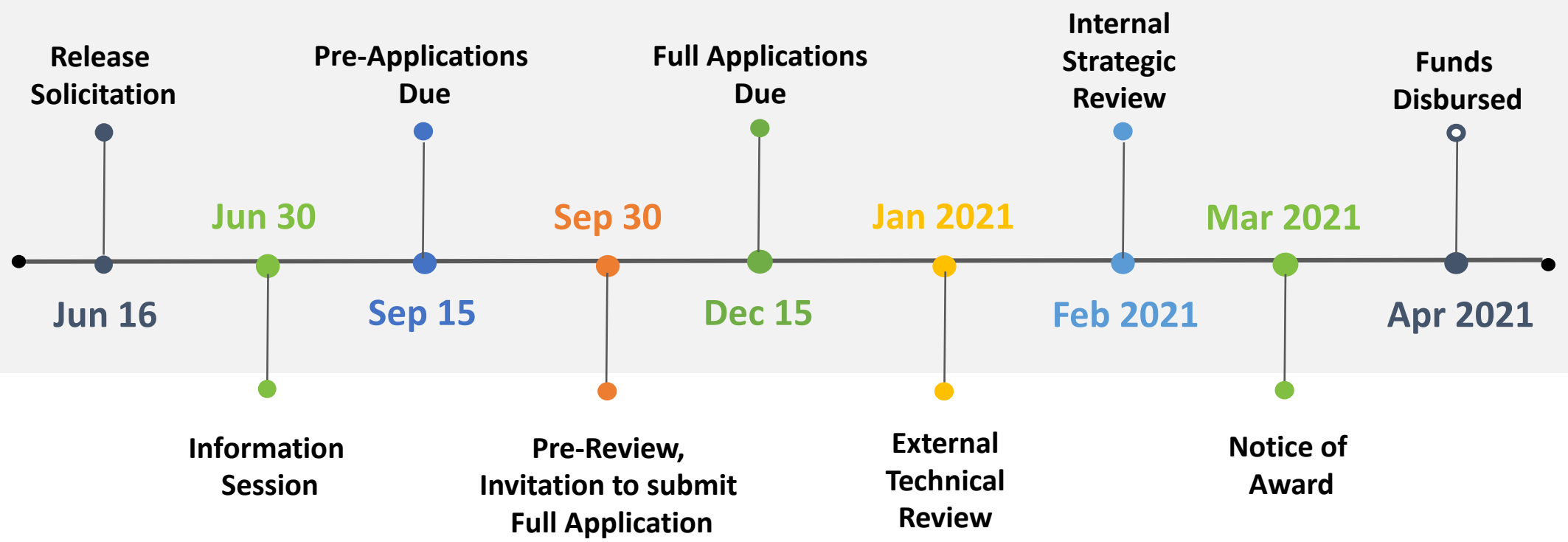
- Combination of NIH and NSF definitions of criteria and considerations for research project grant**
  - Significance
  - Investigator(s)
  - Innovation
  - Approach
  
- Attract follow-on funding**

## Strategic Criteria Reviewed by SACT

- Impact the state's innovation economy (10 points)**
- Collaboration with 1 or more CTUs or TCs (5 pts)**
- Demonstrate significant translational relevance with clearly defined and validated market need (5 pts)**
- Demonstrates commitment from applicant's institution and/or industry partners with matching funds (5 pts)**
- Attract follow-on funding (5 pts)**
- Measurable interim and final milestones (5 pts)**
- Involve SC-based, for-profit industry partners (5 pts)**
- Technology has potential across multiple SC-based industry sectors (5 pts)**



# TIMELINE



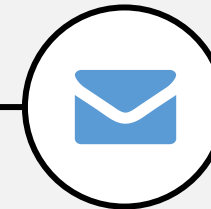


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