

SC Fraunhofer USA Alliance

What is the SC Fraunhofer USA Alliance?

The South Carolina Fraunhofer USA Alliance (SCFUSA) is a collaborative effort between The South Carolina Council on Competitiveness (The Council), the South Carolina Department of Commerce, and the Fraunhofer USA Center for Experimental Software Engineering CESE in Maryland. The alliance was created to advance applied research in engineering and technology across the state of South Carolina with the Fraunhofer USA Center for Experimental Software Engineering and South Carolina research institutions.








The work of the alliance and the research it supports strive to give South Carolina a competitive edge in advancing applied research and innovation that can move industry forward.

Now Accepting New Proposals

The South Carolina Department of Commerce has made significant funding available to match private sector funding for applied research projects between South Carolina's universities and Fraunhofer USA to promote applied research that improves the competitiveness of South Carolina companies and results in a positive economic impact within the state. Effective immediately we are accepting project proposals to collaborate with the South Carolina Fraunhofer USA Alliance. Eligible applicants (see qualifying criteria) can apply for matching funds and must commit a cash match to be eligible.






























Eligibility Requirements

Project proposals will be assessed using seven criteria and each criteria is weighted – resulting in a cumulative score. Criteria and its respective weighting as follows:

- 30%  To what degree will the project enhance the client's competitiveness and lead to additional job creation?
- 20%  How well does the proposed project match the Alliance's collective competencies/capabilities?
- 15%  Does the project offer other positive secondary impacts? Example: Is a supply chain strengthened? Will employee skills be enhanced and justify higher wages?
- 10%  Does the project offer strategic benefits to overall state goals such as supporting small and medium enterprises, rural-based companies, growing technology sector, etc.?"
- 10%  Is the organization operating and/or does it have a substantial investment, presence, or workforce in South Carolina? The more direct impact on the SC economy, the better the project.
- 5%  Does the project address one or more of South Carolina's strategic industries targeted for expansion for Commerce? Projects that build success stories in Manufacturing, Healthcare, or Shipping and Logistics are preferred.
- 5%  Can the project serve as a showcase to attract new domestic and international business to South Carolina?

Recent Collaboration

The ultimate goal of the South Carolina Fraunhofer USA Alliance is to make South Carolina operations more competitive, more successful and to have a statewide impact on growing companies, jobs, and the economy. The primary focus is to support digital transformation, innovation and new product and systems development in the areas of advanced manufacturing, cybersecurity and telehealth. An overview of projects underway or recently completed can be found below:

TECHNICAL AREA	SC COMPANIES / AGENCIES	LEAD INSTITUTE, OTHER
Telehealth		 
Wearables		 
IoT		  
Wire Harness Automation		  
Cloud-based data platform	 	 
Machine system integration	 SIEMENS Heraeus	  
Predictive Analysis of Manufacturing Output		 
Development of cloud-based AI platforms		  

History of the SC Fraunhofer USA Alliance

The establishment of the SC Fraunhofer USA Alliance marks the first in the South applied research initiative with the Fraunhofer Institute and is a direct result of South Carolina's sister-state relationship with Rhineland-Palatinate, Germany. The sister-state relationship came about in the mid-1990s as a result of the Charleston Naval Base closing and American military base closings in Rhineland-Palatinate. A sister-city relationship then developed between Columbia and Kaiserslautern, Germany (where Ramstein Air Base is today) and the home of the Fraunhofer Institute for Experimental Software Engineering. The Fraunhofer Institute for Experimental Software Engineering is responsible for many of the world's current technologies including the MP3. The SC Fraunhofer USA Alliance is now bringing that expertise to South Carolina.

Learn more about the SC Fraunhofer USA Alliance

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