

Call for Proposals

The Center for Accelerated Real Time Analytics (CARTA) has announced a call for proposals for research projects to begin in Summer/Fall 2022. Please see the key deadlines at the bottom of the page.

Proposal Topics

The CARTA Research Roadmapping Committee, a collaborative group of researchers, industry experts, and government representatives, have outlined some key themes and thrust areas that CARTA-funded research should emphasize. These include:

- IoT -> AI of Things
- Leveraging edge compute capabilities
- Workload optimization and energy efficiency
- Heterogeneous streaming data analytics in real time
- Edge to core data pipeline optimization
- Analytics security, including analytics process security and data provenance
- Explainable AI & ML

CARTA industry members expect to see an emphasis on translational analytics methodologies in new proposals. This will include highlighting the abstract aspects of expected research outcomes and how they could be successfully generalized to other problem domains.

Industry members are also interested in multi-disciplinary projects that, for example, approach different domain-specific problems using a common analytic methodology. Collaborative projects are strongly encouraged. Please contact David Wright (david_wright@ncsu.edu) for details on submitting collaborative proposals.

Guidelines for Participation as an Investigator

The National Science Foundation Industry & University Cooperative Research Center program is a vehicle for encouraging formal, topical relationships between academic institutions and industry collaborators.

A select number of projects will be chosen based on the recommendations of CARTA-NC State industry members, for presentation at the Spring Industry Advisory Board (IAB) meeting to be held virtually on Monday, June 6, 12:00 - 4:30 PM EDT. Faculty members can submit an unlimited number of proposals for project concepts.

Submission Instructions

To submit a proposal for the Spring 2022 CARTA IAB meeting, please complete the proposal form at https://ncsu.qualtrics.com/jfe/form/SV_6rNjC76mKB3Gq8e by 11:59 pm on Tuesday, May 17, 2022.

Funding per project generally ranges from \$40,000 to \$60,000 of direct cost per year with a typical project duration of one year. Projects requiring more than one year of funding must submit new proposals at subsequent IAB meetings for additional years. The original proposal may indicate that additional years are planned, but should only detail year one. Allowable costs include, but are not limited to the following: tuition, stipend, faculty salary, undergraduate salary, benefits, travel (international and domestic and should include one to two trips to the IAB meeting), materials, laboratory fees, and equipment. Please note, there are no indirect costs allowed in the project budgets.