Call for Participation

The I/UCRC for Spatiotemporal Thinking, Computing and Applications (a.k.a. NSF Spatiotemporal Innovation Center) holds its 22nd semi-annual Industrial Advisory Board meeting in a hybrid fashion on November 15, 2024. This meeting reviews the center's innovative research and identifies new projects to be supported through collaborations among academia, industry, and agencies. The meeting will also discuss innovative research challenges, opportunities, networking, and platform on Digital Twins.

All center research results are freely shared among members to boost their products, services, and businesses. All companies or agencies (with interest in geospatial and spatiotemporal research themes) are welcome to participate. This is a prime time to become familiar with cutting-edge research results, leverage the innovative outcome for your future products and services, increase your efficiency, improve your competitiveness, and boost your business.

Please register @ here

Location: 4400 Univ. Dr., Fairfax, VA, 22030

What is an Industry/University Cooperative Research Center (I/UCRC)?

Initiated by Congress in 1973, the National Science Foundation (NSF) Industry/University Cooperative Research Center (I/UCRC) Program funds promising technologies created by university scientists and transfers the research results to companies and organizations where the results can be applied to benefit society and enhance business. An I/ UCRC consists of the funded university sites and members from industry, state and federal government agencies, and non-government organizations (NGOs) by collaborating on precompetitive research. Members contribute the annual membership fee to an I/UCRC site. Through membership, the industry and the university form a close partnership that nurtures a pool of scientists and engineers to develop new capabilities for emerging domains.

What is I/UCRC for Spatiotemporal Thinking, Computing, and Applications?

Many 21st century challenges in our contemporary society, such as natural disasters, happen in both space and time, requiring that spatiotemporal principles being incorporated into the computing process. A systematic investigation of these principles can advance human knowledge by providing trailblazing methodologies to explore the next generation of computing for addressing these challenges. On September 15, 2013, the NSF I/UCRC renewed the I/UCRC for Spatiotemporal Thinking, Computing, and Applications (STC) for a second phase for George Mason University (GMU) and Harvard University (Harvard) to develop potential solutions to address these 21st-century challenges. The collaborating universities collaboratively aim at building up the national and international spatiotemporal infrastructure.
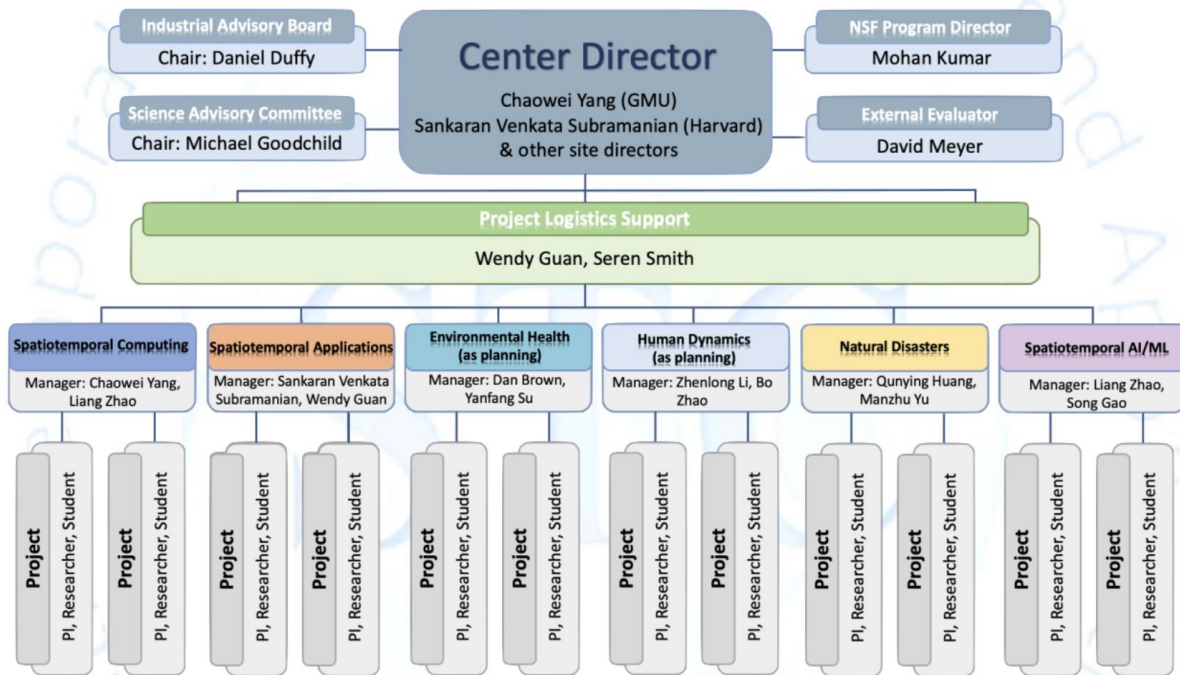
The relevant domains where STC conduct research include, but are not limited to: GISciences, computing sciences, location-based services, transportation, Earth sciences, environmental sciences, space sciences, public health, geological sciences, spatial data infrastructure, biological sciences, and social sciences.

STC operates under the auspices, rules, and standard operating procedures of the NSF I/UCRC program. The operations are managed by universities under the guidance of an Industry Advisory Board (IAB), which comprises representatives from every member

organization. Each year (research) faculty propose projects to meet the needs outlined by IAB. The IAB then vote to fund projects. The academia researchers work closely with and report to industrial members to ensure the project deliverables and close relevance.

How would you benefit as a Member of STC?

STC conducts low cost, low risk precompetitive research for its members in industry, government agencies, and NGOs. As a member of the IAB, you will assess ongoing research and set priorities for new research directions, and your organization will benefit from center innovations. Specifically, the benefits as a member include:

1. Direct the center's research projects and mentor ongoing projects,
2. Free access to R&D results of all the center membership projects,
3. Contribute a fraction of a full-time employee,
4. Reduced overhead costs on research projects,
5. Industry/Agency networking opportunities,
6. Access to world-class facilities and researchers,
7. Access (and hire) students cultivated through collaborative research and development,
8. Increase company's competitiveness through deliverable oriented collaboration with academia and agencies.

Current IAB Members

Department of State: https://www.state.gov/

NOAA JPSS: https://www.noaasis.noaa.gov/POLAR/JPSS/jpss.html

NOAA GOES-R: https://www.goes-r.gov/

NOAA Operations https://www.omao.noaa.gov/

NOAA Disaster Management: https://response.restoration.noaa.gov/

NASA CISTO: https://science.gsfc.nasa.gov/cisto

KNIME: https://www.knime.com/

China Data Institute: https://chinadatacenter.net/

NASA AIST: https://esto.nasa.gov/aist/

Future Data Lab: https://futuredatalab.org/

OmniSci (aka MapD): https://docs.omnisci.com/v5.1.1/1_overview.html

Past IAB Members

The Federal Geographic Data Committee
Harris Corporation
Microsoft
United Nations (UN)
NASA Goddard ITCD
East View Geospatial
National Geomatics Center of China
USGS
Northrop Grumman Corporation
National Geospatial-Intelligence Agency (NGA)
Shaanxi Administration of Surveying, Mapping and Geoinformation
Zhe Jiang Surveying, Mapping and Geoinformation (ZJSG)

Online Meeting Resources:
Center Website: https://www.stcenter.net/
IAB agenda: https://www.stcenter.net/?page_id=5608

Lodging/Hotel Info

Throughout the year, Mason offers a variety of discounts at local hotels for families. Visit marriott.com to take advantage of special rates as you plan your visit to Mason! A shuttle will be provided during orientation dates from the Residence Inn Marriott in the morning and evening.

https://masonfamily.gmu.edu/resources/where-to-stay/