

UIU Center for Smart Infrastructure Resilience and Sustainability (CSIRS) -

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Key objectives

The **Center for Smart Infrastructure Resilience and Sustainability (CSIRS)** aims to foster inter-disciplinary research, knowledge dissemination, policy advocacy, capacity enhancement, and industry collaboration to contribute to resilient and sustainable infrastructure development that would enhance the quality of life and economic prosperity of our nation. 01

Cutting-edge Research

Conduct cutting-edge research to develop innovative approaches, materials, and technologies that enhance the resilience and sustainability of infrastructure systems. 04

Innovation Hub

Provide a platform for collaboration between academia, industry, and government agencies to foster innovation and facilitate implementing practical solutions that address real-world challenges related to infrastructure resilience and sustainability. 02

Knowledge Dissemination

Disseminate research findings, best practices, and policy recommendations through publications, seminars, conferences, and outreach activities. 05

International Collaboration

Forge partnerships with renowned institutions and organizations globally to exchange knowledge, resources, and expertise in infrastructure resilience and sustainability. 03

Education and Capacity Enhancement

Offer specialized courses, workshops, and training programs to develop skilled professionals capable of designing and managing smart, resilient and sustainable infrastructure projects.

Focused Research Areas

At CSIRS, we focus on conducting interdisciplinary research with an emphasis on IoT- based design and operation monitoring as IoT integration would provide real-time data, encouraging data-driven decision making, and leading to a more resilient and sustainable infrastructure development.

Climate Adaptation and Resilience

Resilient Design and Construction

Smart monitoring and maintenance

Fecal and solid waste recycling technologies

Water and wastewater treatment technologies

Wetlands and freshwater resources management

Message From Director

Bangladesh faces a myriad of infrastructure challenges. The escalating pace of climate change only amplifies the complexity of achieving sustainable solutions. Here at CSIRS, weâ€™re dedicated to leveraging SMART technology to address both urban and rural infrastructure challenges. By fostering interdisciplinary research, industry collaboration and disseminating knowledge, we will move forward.

â€“ **Dr. Md. Mujibur Rahman** , Professor, Department of Civil Engineering, UIU & Director, CSIRS-UIU

Latest News & Blogs

Posted on June 24, 2025June 24, 2025 Categories News and Events

CSIRS-UIU Highlights Technical Innovation in Plastic Waste Management at â€œSave Canal, Save Cityâ€ Learning Sharing Discussion Session

The Center for Smart Infrastructure Resilience and Sustainability (CSIRS-UIU) was proud to take part in the learning-sharing event... [Read More](#) Posted on June 24, 2025June 24, 2025 Categories News and Events

Kallyanpur Canal Project Shows How to Combat Plastic Pollution in Dhaka

Dr. Rumana Afrin (Associate Director, CSIRS) and Dr. Tariq Bin Yousuf (Resource Person, CSIRS) attended a round table discussion o... [Read More](#) Posted on April 26, 2025April 26, 2025 Categories News and Events

Strategic Partnership Agreement between CSIRS-UIU and ITN-BUET

A Strategic Partnership Agreement was signed between Center for Smart Infrastructure Resilience and Sustainability, United Interna... [Read More](#) The Center for Smart Infrastructure Resilience and Sustainability (CSIRS) aims to foster interdisciplinary research, knowledge dissemination, policy advocacy, capacity enhancement, and industry collaboration to contribute to resilient and sustainable infrastructure development that would enhance the quality of life and economic prosperity of our nation. * * * *

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- Dept. of Civil Engineering, UIU

RECENT Events

- CSIRS-UIU Highlights Technical Innovation in Plastic Waste Management at “Save Canal, Save City” Learning Sharing Discussion Session June 24, 2025
- Kallyanpur Canal Project Shows How to Combat Plastic Pollution in Dhaka June 24, 2025
- Strategic Partnership Agreement between CSIRS-UIU and ITN-BUET April 26, 2025

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