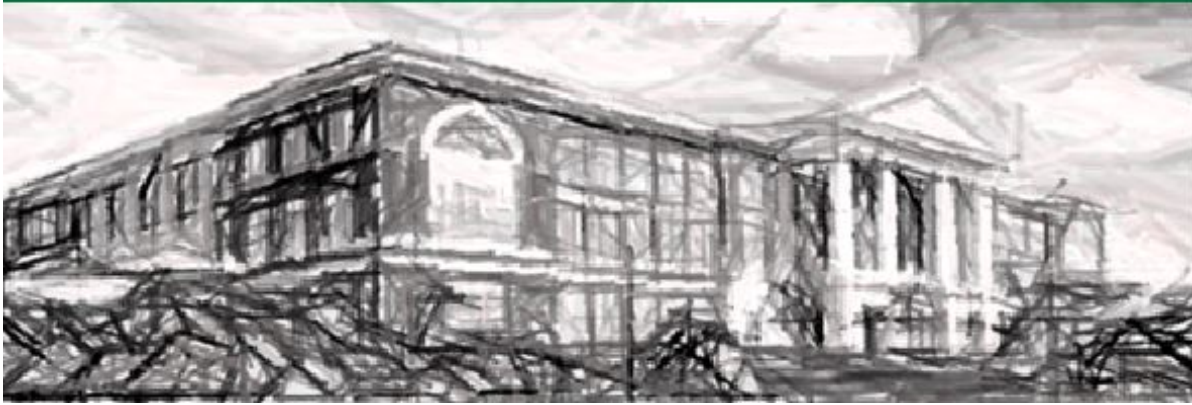




Contracts and Grants Office Newsletter



NINER RESEARCH will be fully operational by Fall, 2021



Niner Research is a new integrated electronic research administration (eRA) system that will help manage UNC Charlotte's research and research compliance activities. This system is replacing NORM. For access of Niner Research and Video Tutorials and Documentation, please click [here](#).

Policy 20.2: Deadline for Proposal Submissions to University Offices

All applications for sponsored funding must be reviewed and approved through proper University channels before submission to the sponsor.

- At least **10 business days** in advance of the sponsor's submission deadline, an IPF must be initiated in the Niner Research and the



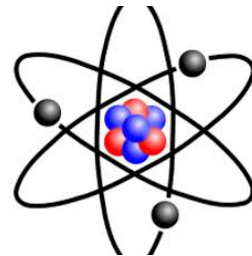
following sections completed: (1) Setup Questions, (2) Personnel, and (3) General Information.

- At least **5 business days** in advance of the sponsor's submission deadline, the final proposal budget and all remaining sections of the IPF must be completed and the routing process for approvals initiated.
- At least **2 business days** (48 hours) in advance of the sponsor's submission deadline, all final application materials must be entered into the Niner Research and received by the office responsible for authorizing the submission.

[Read More](#)

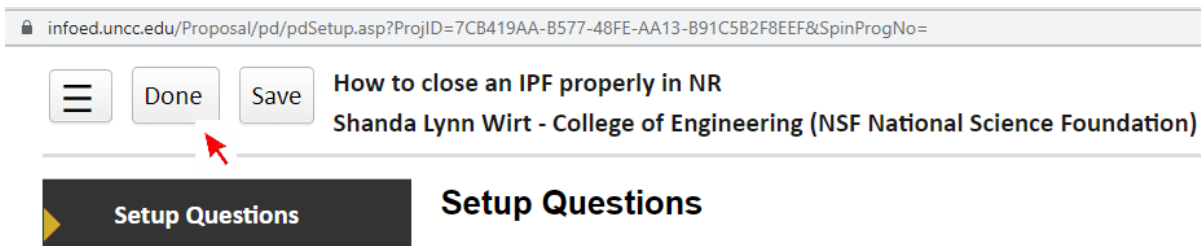
NUGGETS OF KNOWLEDGE

NINER RESEARCH



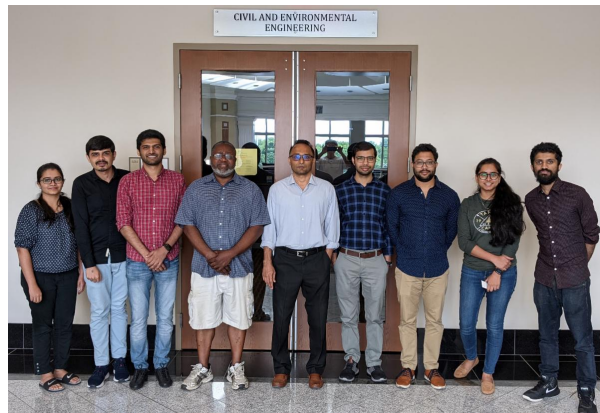
CLOSING an IPF in Niner Research

Click "**Done**" in the upper left corner to close the IPF in Niner Research.



FACULTY RESEARCH SPOTLIGHTS

Dr. Srinivas Pulugurtha,
Professor, CEE
San Jose State University
(flow through funding from
USDOT) awarded Dr.
Pulugurtha a grant entitled
"Mineta National
Transportation Research
Consortium (MNTRC)"



This award has a **six-year duration** with **\$1,125,113** in funding, along with an additional **\$225,001** of anticipated funding in the future.

Over the entire project duration, UNC Charlotte will work with researchers at Howard University, Navajo Technical University, and San José State University to advance transportation expertise through research and technology transfer to improve mobility of people and goods. Further, UNC Charlotte will provide necessary critical transportation knowledge-base, address vital workforce needs, and educate the next generation of transportation leaders.

[READ MORE ABOUT DR. PULUGURTHA'S RESEARCH](#)

Dr. Nicole Barclay, Assistant Professor, ETCM

NC State University (flow through funding from NC WRRI) recently awarded Dr. Barclay a grant entitled *"Data-Driven Analytics Tools to Support Prioritized Management of Stormwater Infrastructure"* for the

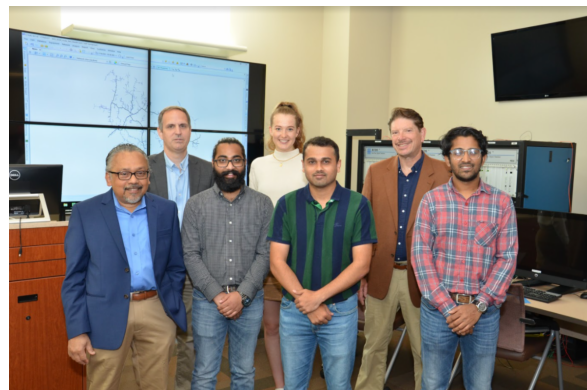


This award has a **two-year duration** with a total of **\$120,000**.

This project will develop models to be used as tools that improve data-driven decisions for stormwater infrastructure asset management and contribute to resource allocation prioritization for repair and replacement. Measured data and infrastructure characterization for storm pipes and culverts will be used as inputs to machine learning algorithms to estimate current conditions and predict future parameter values. The impact of pipeline and culvert failures can then be better evaluated to quantify risks associated with stormwater infrastructure. **Dr. Michael Smith is the Co-PI of this project.**

[READ MORE ABOUT DR. BARCLAY'S RESEARCH](#)

Dr. Badrul Chowdhury, Professor, ECE
DOE awarded Dr. Chowdhury a Research Grant entitled *"Resilient Community Microgrids with Dynamic Reconfiguration to Serve Critical Loads in the Aftermath of Severe Events"*



This award has a **three-year duration** with a total of **\$4,027,300**. An advanced microgrid control architecture will be designed, which will coordinate seamlessly with the bulk power grid at multiple points of common coupling, automatically balance the load and generation, provide critical services (hospitals, emergency shelter, etc.) at a minimum, detect faulty conditions on a continuous basis, communicate with DERs, form networked microgrids with neighboring communities when needed, and maintain safe operating conditions at all times. The proposed control will be tested utilizing a unique digital-twin approach in which laboratories at the partner institutions will have direct, real-time connections to microgrids operated by the major utilities in North Carolina. The result will be a first-of-the-kind assessment of advanced algorithms compared to a baseline of control algorithms in fielded utility scale community microgrids. **Dr. Robert Cox, Dr. Michael Mazzola, and Dr. Valentina Cecchi are the Co-PIs for this project.**

[READ MORE ABOUT DR. CHOWDHURY'S RESEARCH](#)

UPCOMING EVENTS AND CONFERENCES

Research Administration Conferences

SRA INTERNATIONAL

Virtual Online Training:
Basics of Research Administration
09/09/21 - 10/07/21

2021 Annual Meeting:
10/23/21 - 10/27/21

[Details here](#)

NCURA

[In-Person Annual Conference](#)
LIVE IN WASHINGTON, DC
08/30/21 - 09/02/21

[Virtual Annual Conference](#)
08/30/21 - 09/02/21

[Details here](#)

Have News To Share?

Please send any news, awards, photos, etc. along to [Joanne Zhang](#) to be included in the Contracts and Grants Office newsletter.

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