



TOP STORY

CSU/CWRU Internet of Things Collaborative Receives Funding to Create New Research Hubs



Dr. Nigamanth Sridhar and Shilpa Kedar

Cleveland State University and Case Western Reserve University have received a \$3.1 million, two-year grant from the [Cleveland Foundation](#) to further advance the Internet of Things Collaborative ([IOTC](#)).

The IOTC's continued activities at CSU will be led by Dr. Nigamanth [Sridhar](#), a professor in the Department of Electrical Engineering and Computer Science ([EECS](#)) and co-academic director of IOTC, and Shilpa [Kedar](#), executive director of Digital and IoT Innovations at Cleveland State, and co-executive director of IOTC.

The funding supports completing the establishment of two technology research hubs and expanding faculty engagement across the two universities. A **Community+Technology** hub will drive approaches to technology development and deployment that prioritize public interest while keeping humanity at the center of technological advancement. An **Industry+Technology** hub focuses on future manufacturing and connected health, both of which are aligned with the [Cleveland Innovation Project](#), a collaborative initiative of business and civic leaders designed to bolster Greater Cleveland's innovation economy.

The recently established [CSU T.E.C.H. Hub](#) will be a focal point of the Community+Technology activities and public interest technology more generally. Dr. Nick [Zingale](#) ([Urban Affairs](#)), Dr. Patty [Stoddard Dare](#) ([Social Work](#)), and Dr. Sathish [Kumar](#) ([EECS](#)) are serving as faculty co-directors of the T.E.C.H. Hub.

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MEET CSU'S NEW FACULTY

Emmanuel Kidando, Civil & Environmental Engineering

Dr. Emmanuel [Kidando](#) is an assistant professor in the Department of Civil & Environmental Engineering ([CEE](#)). He holds a Ph.D. in civil engineering from Florida State University (FSU). Before joining CSU, Dr. Kidando was an assistant professor at Mercer University in Macon, Georgia and previously worked as a research scientist at FSU, leading a research team on the evaluation of a deployed connected vehicle system in Tallahassee, Florida.

His research experience and interest cover a wide variety of transportation engineering areas including intelligent transportation systems ([ITS](#)), autonomous and connected vehicle systems, freeway operations, highway safety, simulation modeling, software systems, and data management. Dr. Kidando has authored or co-authored over 40 peer-reviewed research articles and conference proceedings papers in the application of advanced statistical modeling techniques



to traffic operation, highway safety, and intelligent transportation systems. He is currently developing a collaborative research program at CSU in the areas related to ITS, traffic simulations, and highway safety.

In his spare time, Dr. Kidando enjoys traveling and watching and playing soccer.

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FEATURED RESEARCH ALUMNI SERIES

Kevin Melcher



Kevin J. [Melcher](#) is the Branch Chief of the Intelligent Control and Autonomy Branch at [NASA Glenn Research Center](#). His research work at NASA includes integrated system health management (ISHM)

for space exploration missions and control and dynamic modeling technologies for aerospace applications.

He received his master's degree from Cleveland State in 1996, working with Dr. Mounir Ibrahim, professor emeritus of mechanical engineering. His thesis was titled, "A Method for Perturbing the Flow Field in Supersonic Wind Tunnels for Dynamic Analysis of High Speed Inlets."

If you know a former Cleveland State student researcher who has gone on to career success, please email [Ben Ward](#) or [Joy Yard](#) to let us know.

STUDENT RESEARCH OPPORTUNITY

EPA P3 National Student Design Competition Announced

The U.S. Environmental Protection Agency ([EPA](#)) has announced the release of the 18th Annual People, Prosperity and the Planet (P3) National [Student Design Competition](#).

This collegiate design competition promotes the use of scientific and engineering principles to create innovative projects to address environmental challenges and develop real-world solutions. EPA is seeking applications in the research areas of Air Quality, Safe and Sustainable Water Resources, Sustainable and Healthy Communities, and Chemical Safety.

The two-phase competition will provide initial funding for research and development of design projects during the academic year, followed by an opportunity for teams to compete for funds to implement their projects in a real-world setting.

EPA will host an [informational webinar](#) on December 2 at 2:00 pm.



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CSU SCHOLAR NEWS

Meshack Owino, History

Dr. Meshack [Owino](#) is an associate professor in the Department of [History](#). He earned his B.Ed. and M.A. at [Kenyatta University](#), Kenya, and M.A. and Ph.D. at [Rice University](#). Dr. Owino joined CSU in 2005, and he teaches courses on pre-colonial and modern African history. His primary research focuses on the participation and experience of African soldiers in World War II, and war in Africa and the world in general.

The rise of digital social media has also attracted Dr. Owino's attention, and he has conducted research and published articles focusing on the intersections between the digital media, the humanities, and public history in Africa. He and Dr. Mark [Souther](#) have been awarded two grants from the National Endowment for the Humanities ([NEH](#)) for research on digital humanities and public history in Africa. Their latest article in this area appears [online](#) as well as in the journal *Africa in History*. Dr. Owino's research on the experience of African soldiers in wars has recently been



published in the [Palgrave Handbook of African Colonial and Postcolonial History](#). He serves on the Editorial Board of the *Journal of African Military History*, and was featured in a [CLASS “The Story of Us”](#) video.

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INSPIRED CREATIVITY

Anne Berry: Ongoing Matter



The work of Anne H. [Berry](#), an assistant professor of graphic design in the Department of [Art and Design](#), is featured in the travelling exhibition [Ongoing Matter](#), currently hosted by [The Galleries](#) at CSU.

The exhibit explores the text of the *Report on the Investigation Into Russian Interference in the 2016 Presidential Election*, more commonly known as the [Mueller Report](#), through design. Prof. Berry was struck by the density and inaccessibility of the report’s text, which led her to the idea to create works that emphasize important sections of the text and provide contemporary context. She co-created the exhibit, which can be

viewed at The Galleries at CSU through December 12, with Sarah Edmonds [Martin](#), an assistant professor of graphic design at Indiana University.

The Galleries at CSU are located at 1307 Euclid Avenue, in the historic Cowell and Hubbard building, at the corner of East 13th Street.

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NEWS FROM THE TECHNOLOGY TRANSFER OFFICE

Commercialization Update



The [TeCK Fund](#) Selection Committee Meeting selected a new CSU proposal for commercialization funding. Dr. Antonie [van den Bogert](#), the Parker Hannifin Endowed Chair and a professor in the Department of [Mechanical Engineering](#), leads the project, titled *Reticulated Motion Capture Pitcher’s Sleeve*. The novel motion capture wearable device will axially and radially capture the motion dynamics of a thrower’s arm movement. The wearable sleeve will improve the pitching mechanics of baseball players and in turn prevent injuries.

The CSU TTO continues to assist past TeCK Fund recipients with their validation and commercialization efforts. Contact Jack [Kraszewski](#) for assistance with a [disclosure](#) to begin the process of protecting your invention or intellectual property.

Funding Support Training

[NorthCoast I-Corps](#) training is available to help you attract additional sources of funding support for your research, technology, or new ideas. The program is short, part-time, and devoted to helping participants obtain funding and other support for the development of an idea, technology, or research outcome.



Four CSU research teams are currently participating in the October cohort. The next cohort starts December 4. Contact Jack Kraszewski (j.kraszewski@csuohio.edu), CSU's Director of Technology Transfer, for additional information.

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Mark your Calendar! Internal Funding Proposals Due February 1



The Office of Research is pleased to announce the call for proposals for these 2021-2022 internal funding programs:

- [Undergraduate Summer Research Award \(USRA\)](#)
- [Graduate Student Research Award \(GSRA\)](#)
- [Faculty Research and Development \(FRD\)](#)
- [Faculty Scholarship Initiative \(FSI\)](#)

The deadline for applications is Monday, February 1. To assist in the preparation of successful applications, the forms that will be used to evaluate the proposals are included at the above web sites.

For more information, please contact Joy [Yard](#), 687-9364, or Ben [Ward](#), 687-4536.

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Please share with us important news or updates on your research, scholarly, or creative activities. Updates may be related to a paper that has been accepted for publication in a high-impact journal, a book you've just published, your work that will be exhibited at a prominent institution, or other updates you wish to share with our office. Send details to j.yard@csuohio.edu and b.j.ward@csuohio.edu.

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