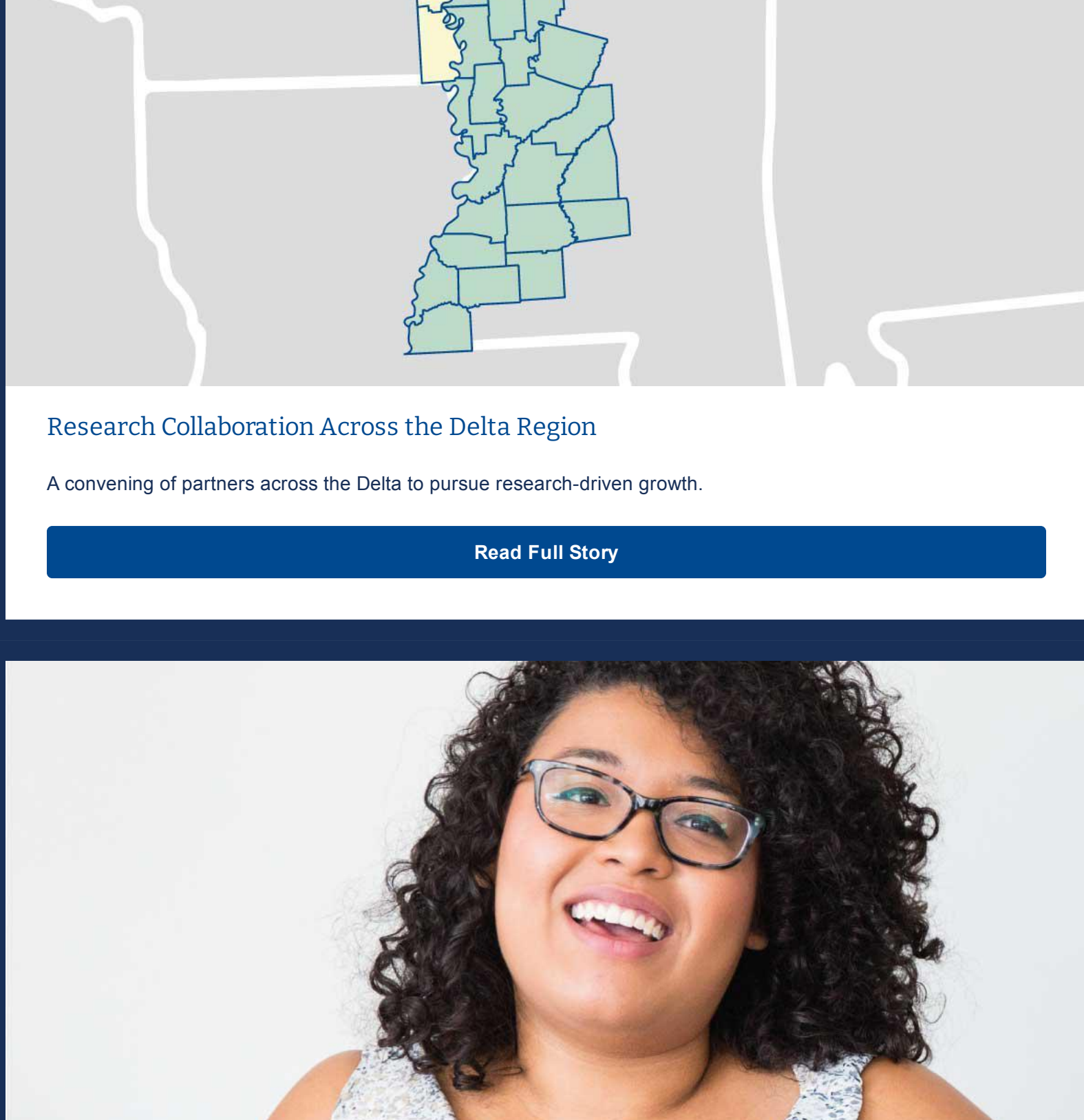




A Tennessee Flagship Carnegie R1 Research Institution

RESEARCH + INNOVATION

NEWSLETTER



Research Collaboration Across the Delta Region

A convening of partners across the Delta to pursue research-driven growth.

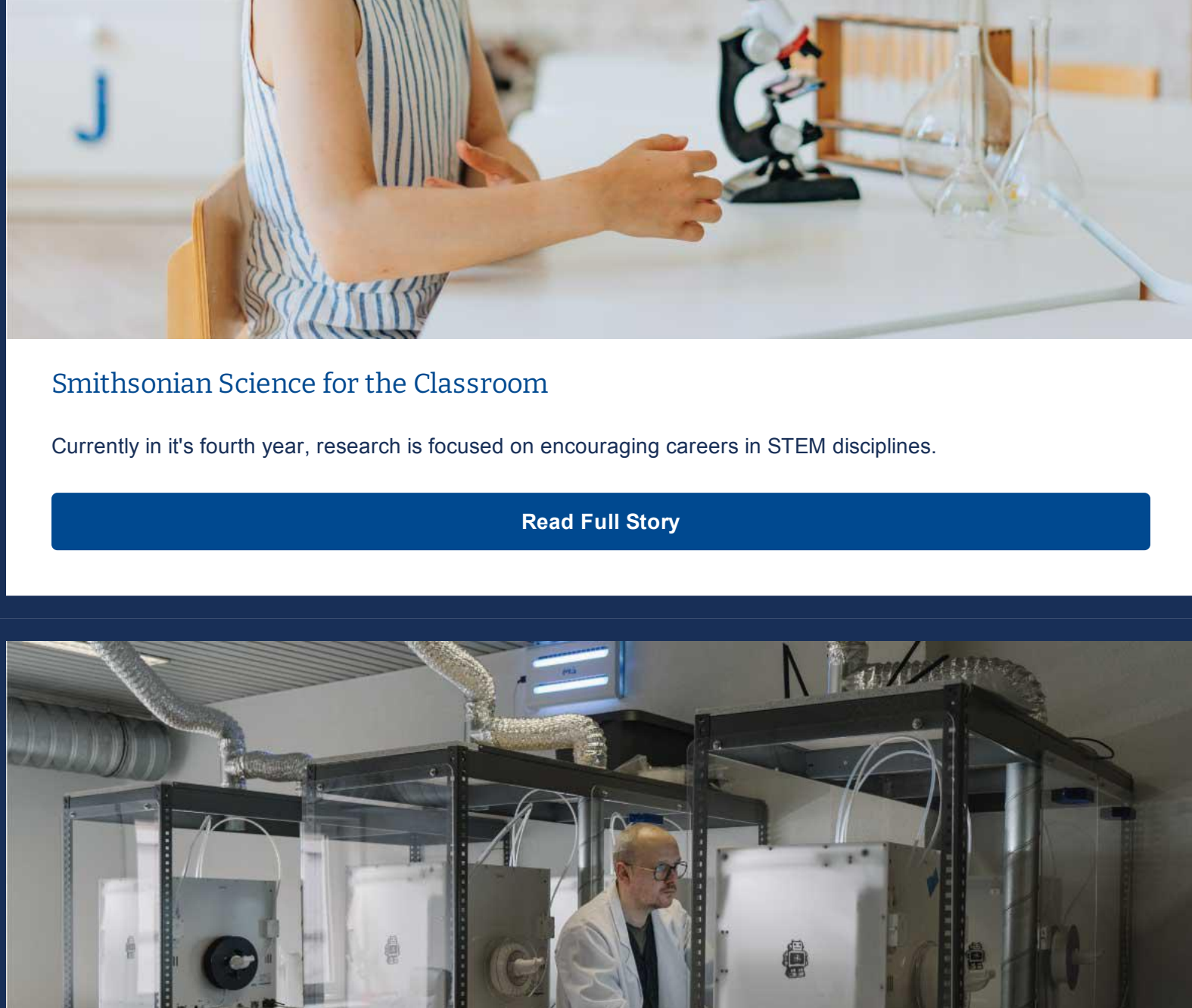
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NSF Faculty Early Career Development Program

2023 NSF CAREER cohort sign-up available on the UofM Info Ready site through March 15.

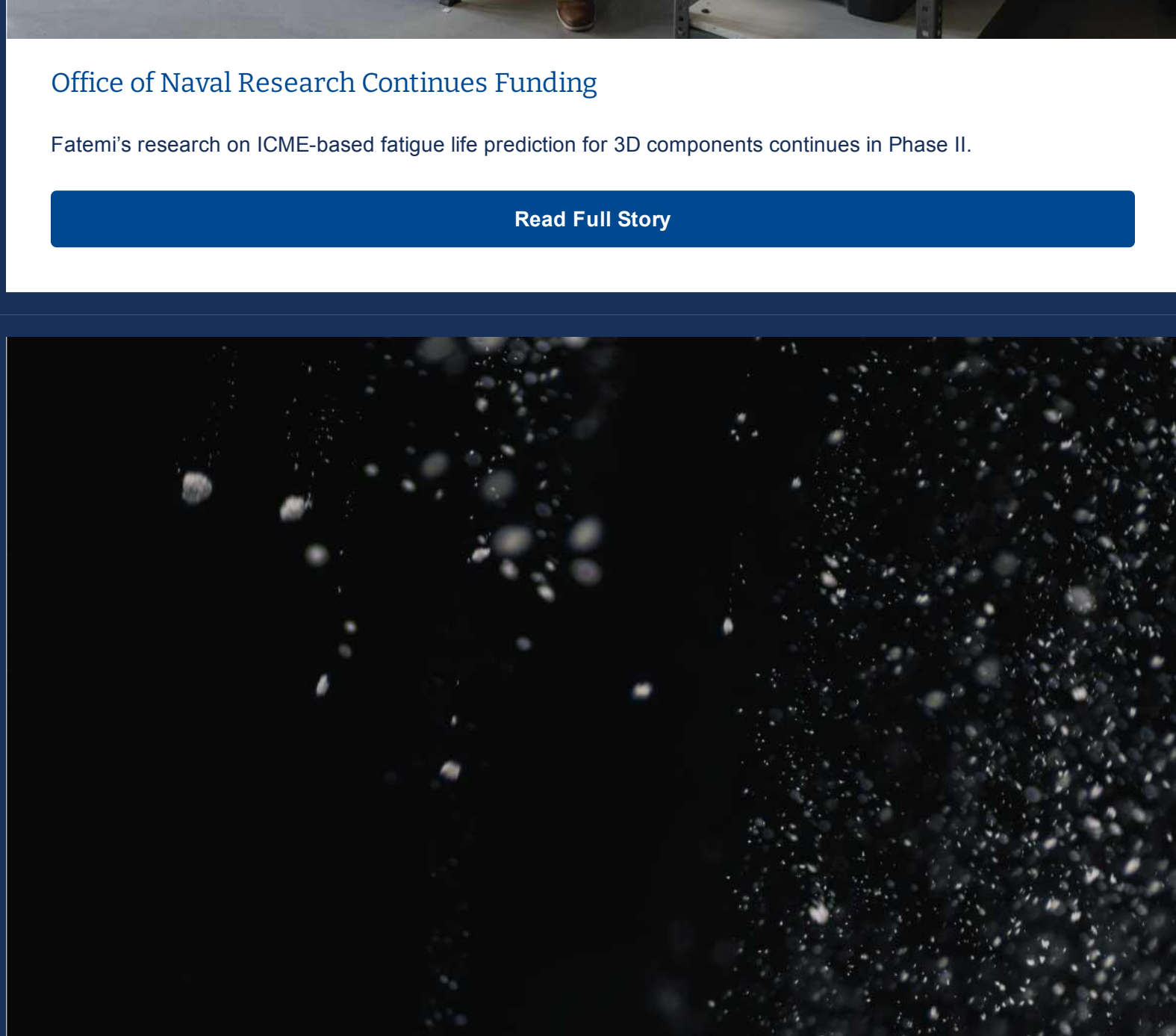
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The Mississippi River and the Environment

Urban-Rural Research Coordination Network explores how challenges affect those connected to the river.

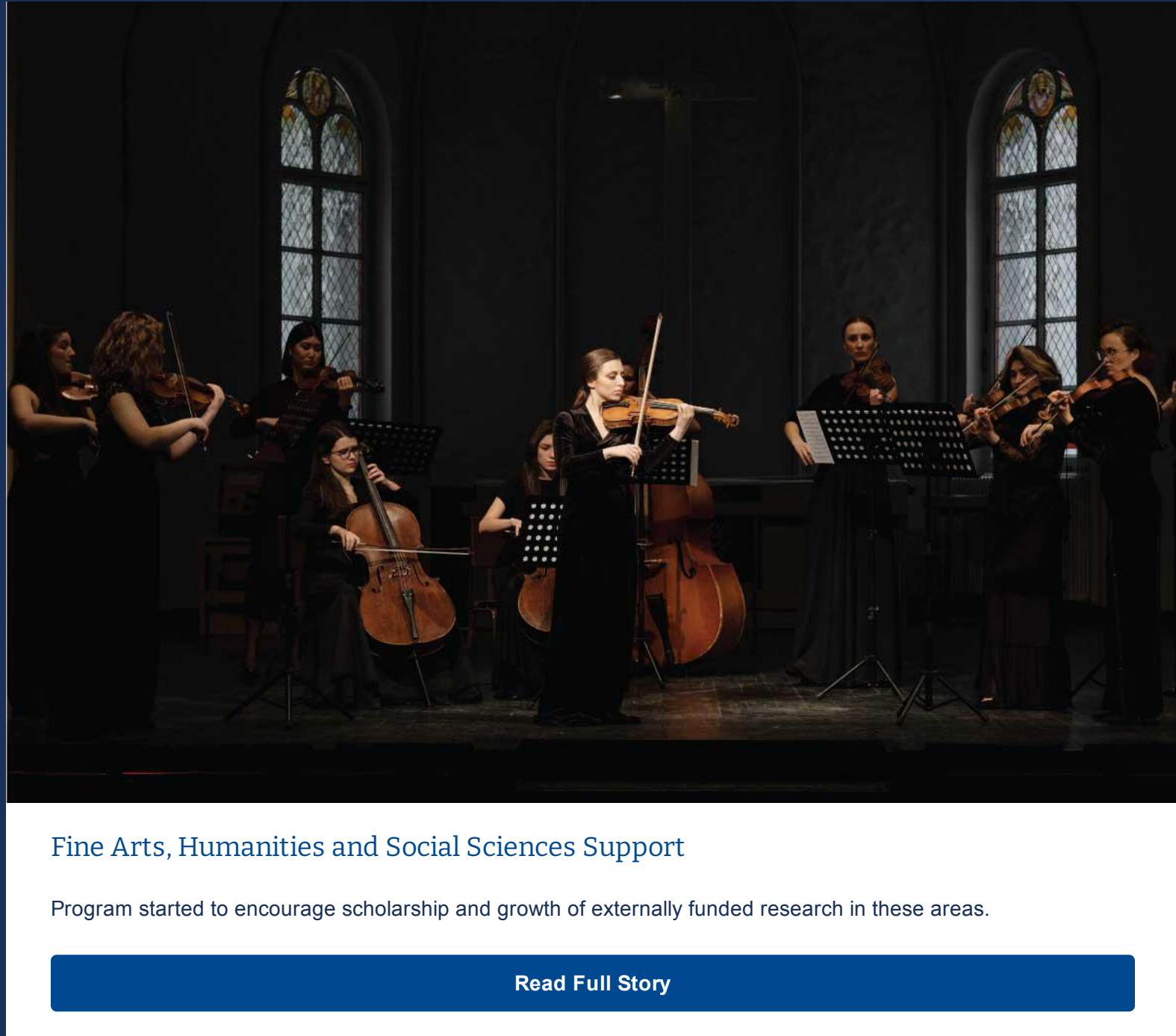
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Smithsonian Science for the Classroom

Currently in its fourth year, research is focused on encouraging careers in STEM disciplines.

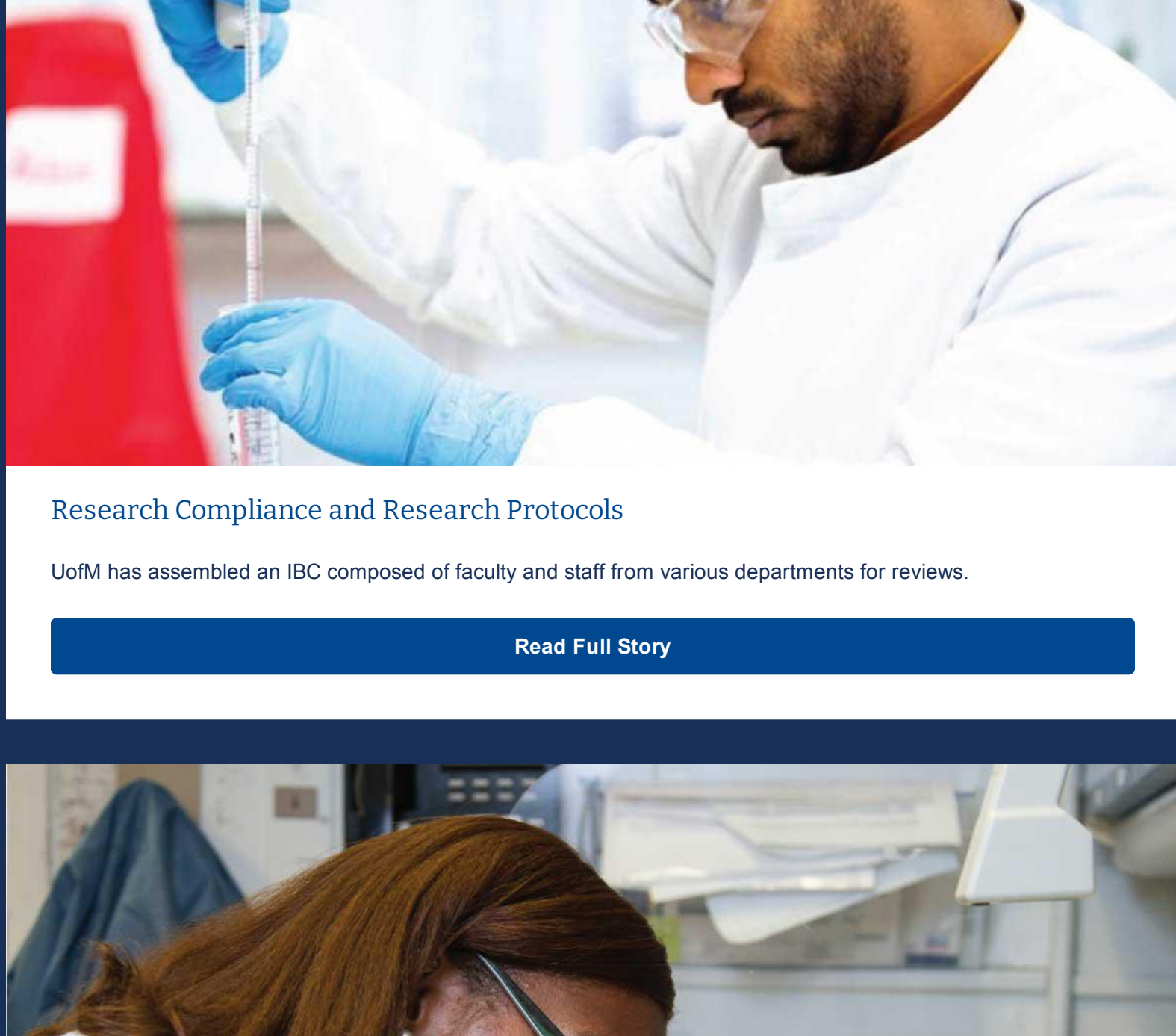
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Office of Naval Research Continues Funding

Fatemi's research on ICME-based fatigue life prediction for 3D components continues in Phase II.

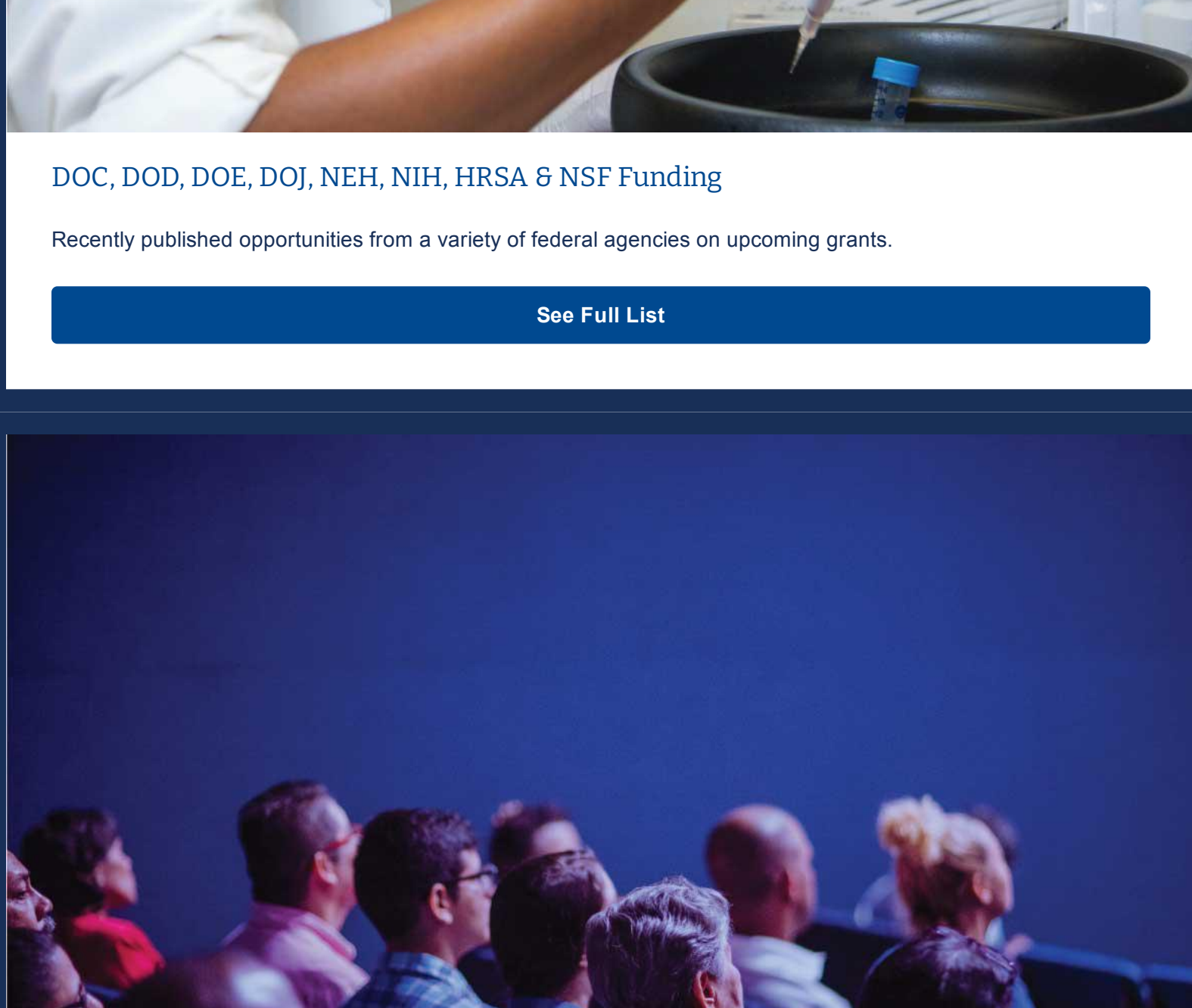
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Dry Powder Dispersion; It's Only Up From Here

Research of dry powder dispersion method — leads to new patent and endless real-world applications.

[Read Full Story](#)



Fine Arts, Humanities and Social Sciences Support

Program started to encourage scholarship and growth of externally funded research in these areas.

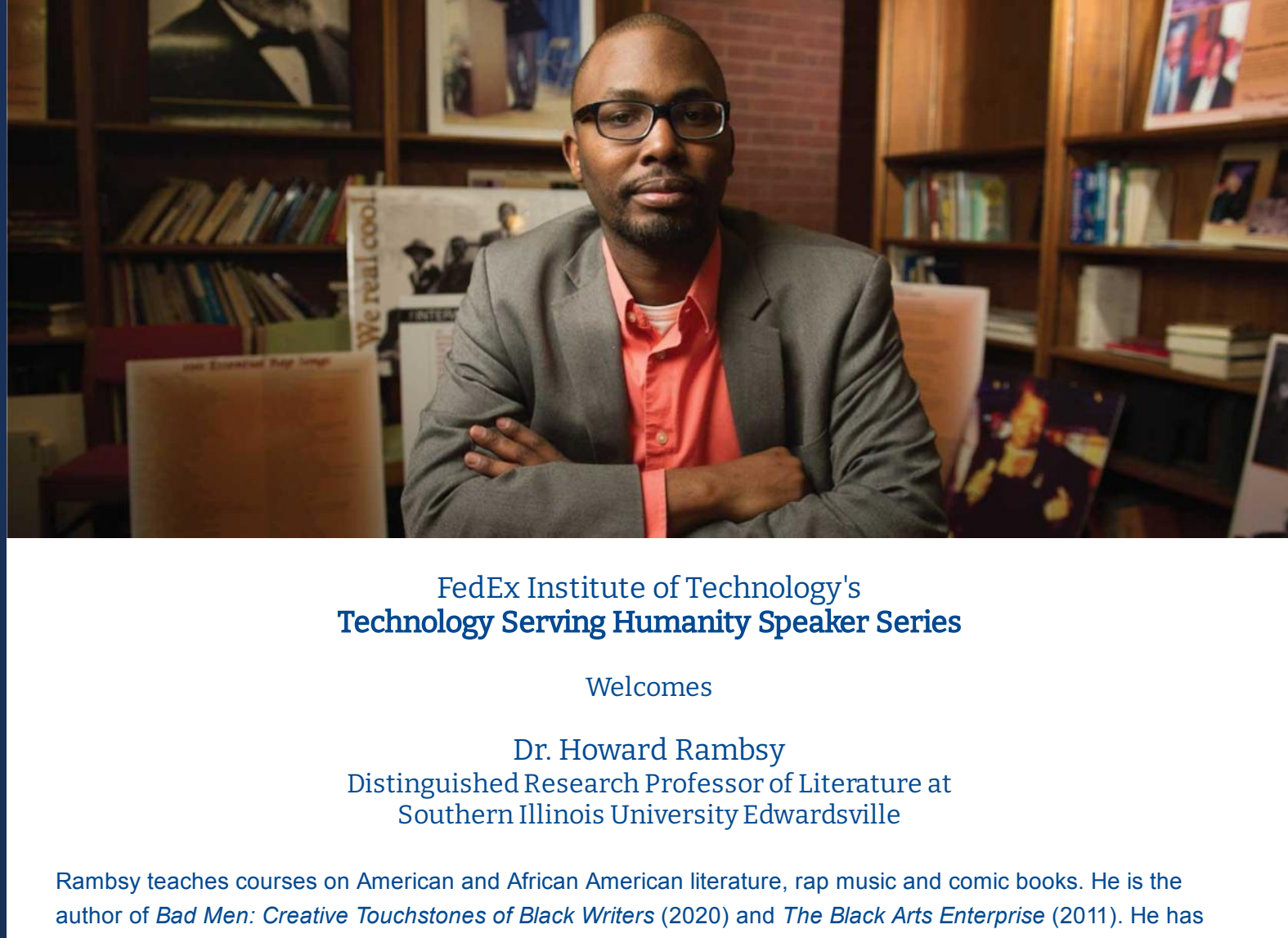
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Research Compliance and Research Protocols

UofM has assembled an IBC composed of faculty and staff from various departments for reviews.

[Read Full Story](#)



DOC, DOD, DOE, DOJ, NEH, NIH, HRSA & NSF Funding

Recently published opportunities from a variety of federal agencies on upcoming grants.

[See Full List](#)

Calendar of Events March 2023

Events for Research Development, OSP, UMRP Research Park and the FedEx Institute of Technology.

[See Full List](#)

Research Awards February 2023

Dr. Ashish Joshi awarded \$8,739,721 from the Shelby County Health Department with the Centers for Disease Control and Prevention.

Dr. Santosh Kumar awarded \$1,029,078 from the National Institutes of Health.

Dr. Christos Papadopoulos awarded \$569,647 from the National Science Foundation.

Dr. Stephanie Ivey awarded \$195,002 from the U.S. Department of Transportation; \$55,000 from the Transportation Research Board with the National Academy of Sciences and \$38,000 from the Women's Foundation for a Greater Memphis.

Dr. Matthew Smeltzer awarded \$125,147 from the Baptist Cancer Center with the National Institutes of Health.

Dr. Radesh Palakurthi awarded \$94,000 from Shelby County Schools.

Dr. Demetria Frank awarded \$75,000 from the Law School Admission Council.

Dr. Elena Delavega awarded \$60,000 from the Church Health Center of Memphis.

Dr. Randolph Dupont awarded \$45,000 from the City of Memphis Police Department.

Dr. James McCutcheon awarded \$11,227 from the City of Memphis Police Department with the U.S. Department of Justice.

Dr. James Murphy awarded \$11,120.33 from the University of Kansas Center for Research with the National Institutes of Health.

Dr. Napoleon Overton awarded \$5,452 from the Tennessee Valley Authority.

* Data reported the 18th of each month. Awards finalized after the 18th will be reported the following month.

Full project and award details available [Research Awards February 2023](#)

Upcoming Events

FedEx Institute of Technology's Technology Serving Humanity Speaker Series

Welcomes

Dr. Howard Rambsy
Distinguished Research Professor of Literature at
Southern Illinois University Edwardsville

Rambsy teaches courses on American and African American literature, rap music and comic books. He is the author of *Bad Men: Creative Touchstones of Black Writers* (2020) and *The Black Arts Enterprise* (2011). He has been a leader in the digital humanities movement, exploring the ways that technology can bring humanities and the arts to a broader and more diverse audience. Rambsy is the creator of Cultural Front, a website on literature, art and digital humanities.

Join us for his talk, **"Data Storytelling and African American Poetry."**

Co-hosted with the Department of English and African American Studies.

Thursday, March 2 | 3 PM
FedEx Institute of Technology | Methodist Presentation Theatre (103)

[Register](#)



FedEx Institute of Technology's Distinguished Speaker Series

Welcomes

Dr. Kevin Heaslip
Director of Center for Transportation Research
University of Tennessee, Knoxville

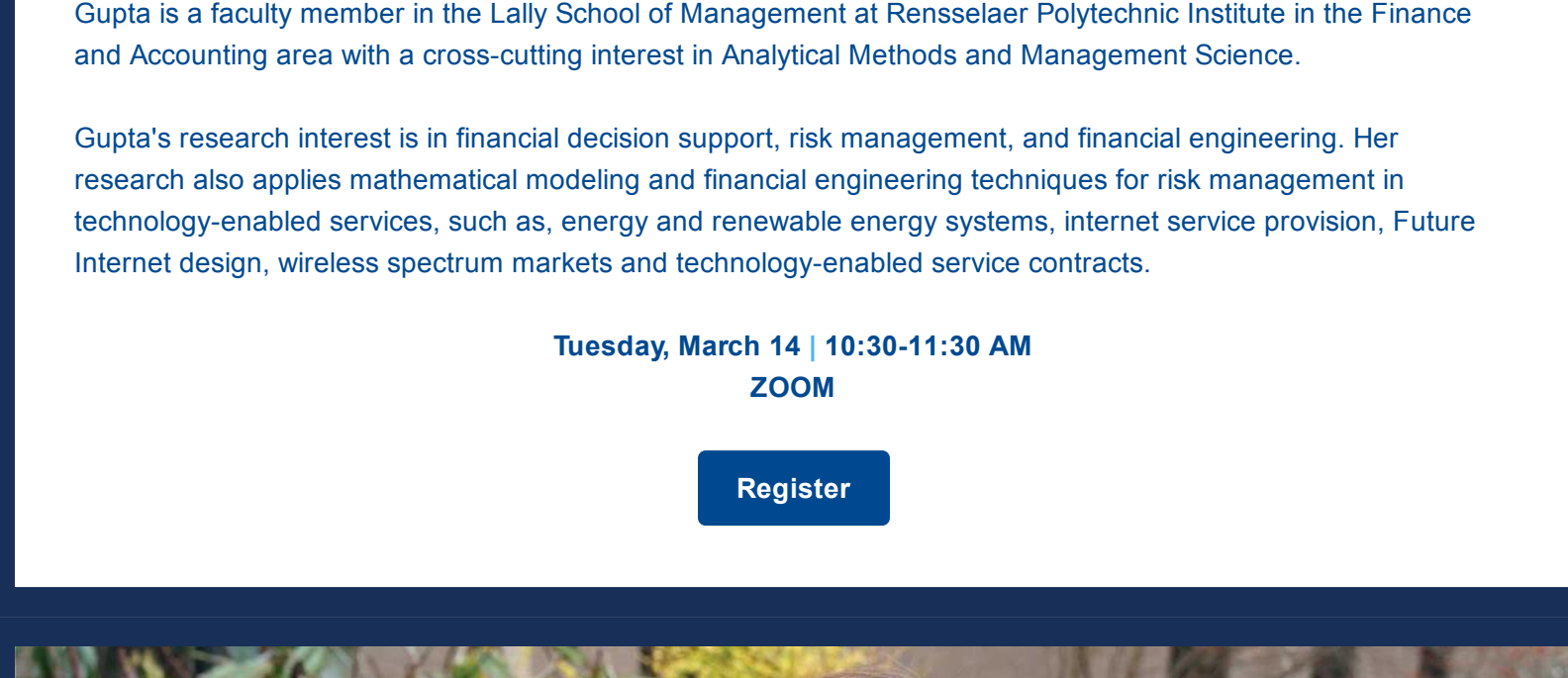
Heaslip is the director of the Center for Transportation Research and a professor of Civil and Environmental Engineering at the University of Tennessee, Knoxville. He previously was a Professor, CACI Faculty Fellow, and a Commonwealth Cyber Initiative Fellow at Virginia Tech. He was the interim director and associate director of the Information Systems Laboratory of the Hume Center for National Security and Technology. Heaslip was an appointed member of the Resilient America Roundtable of the National Academy of Science from 2014-2020.

Heaslip has been awarded over \$25 million in research grants and contracts from federal governments, state governments, and industry as an expert in transportation engineering, transportation technology and critical infrastructure cybersecurity. He has over 150 peer-reviewed journal articles, conference proceedings, and technical reports on the topics of transportation engineering, connected and automated vehicles, transportation big data and transportation cybersecurity. Heaslip received a BS and MS in Civil Engineering from Virginia Tech and a PhD in Civil Engineering from the University of Massachusetts Amherst.

Join us for this talk as we look at the next generation of improving mobility in Tennessee titled, **"Tennessee Technology-Enabled Advanced Mobility Engine (TEAM – Engine)."**

Monday, March 13 | 1:30PM
FedEx Institute of Technology | Methodist Presentation Theatre (103)

[Register](#)



FedEx Institute of Technology's FINTECH Speaker Series

Welcomes

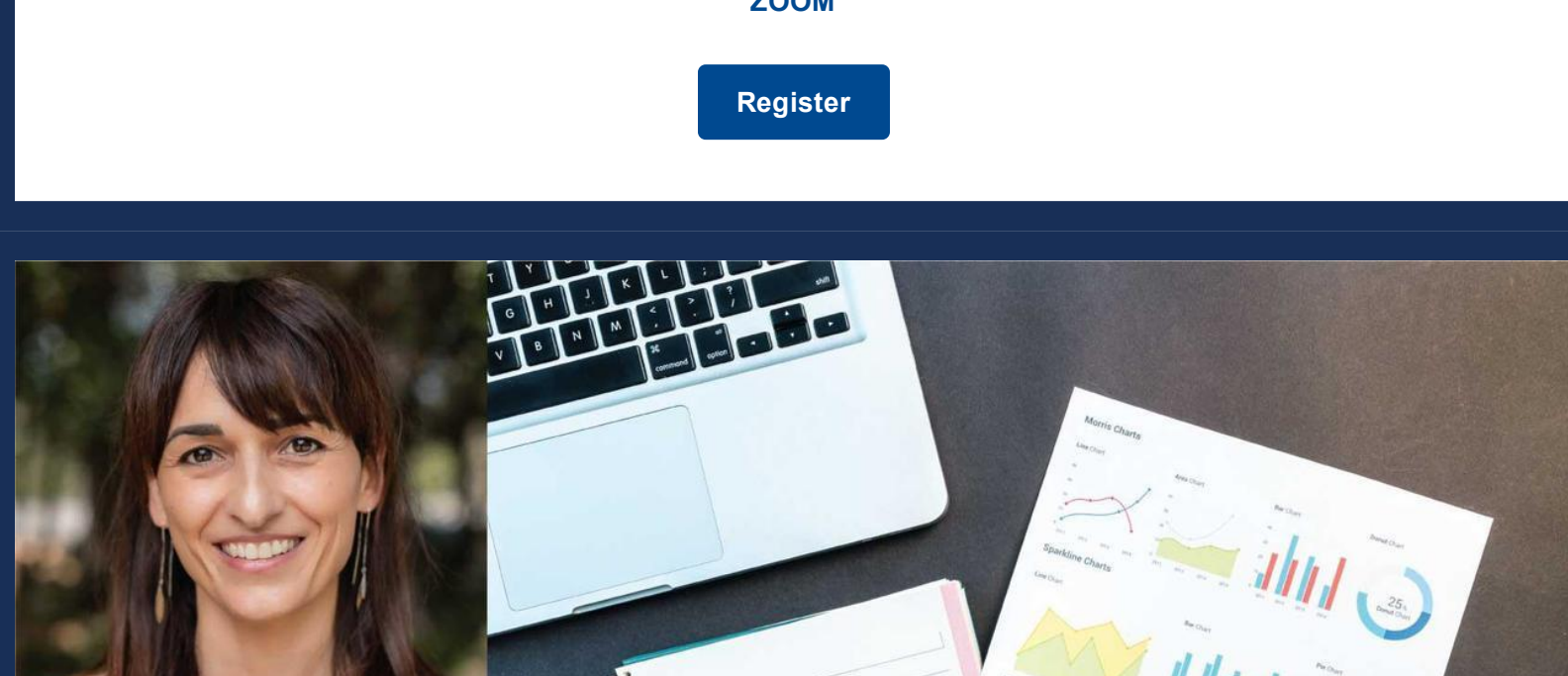
Dr. Aparna Gupta
Lally School of Management
at Rensselaer Polytechnic Institute

Gupta is a faculty member in the Lally School of Management at Rensselaer Polytechnic Institute in the Finance and Accounting area with a cross-cutting interest in Analytical Methods and Management Science.

Gupta's research interest is in financial decision support, risk management, and financial engineering. Her research also applies mathematical modeling and financial engineering techniques for risk management in technology-enabled services, such as, energy and renewable energy systems, internet service provision, Future Internet design, wireless spectrum markets and technology-enabled service contracts.

Tuesday, March 14 | 10:30-11:30 AM
ZOOM

[Register](#)



FedEx Institute of Technology's Distinguished Speaker Series

Welcomes

Dr. Avat Shekoofa
Department of Plant Sciences
University of Tennessee Institute of Technology

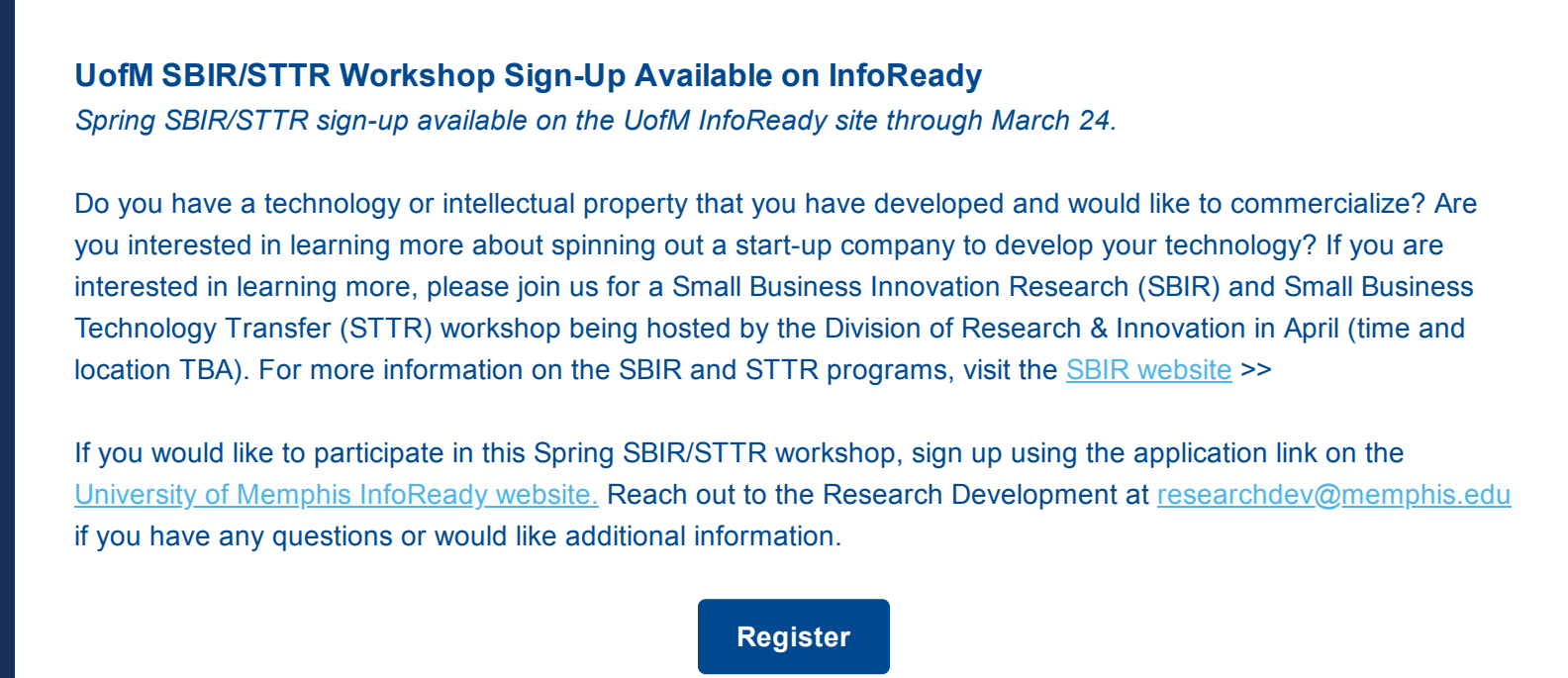
Shekoofa's research was focused on kernel development of maize as affected by source/sink ratio. She was a visiting scientist at Universidad Nacional de Rosario, Argentina from 2009-10, and conducted postdoc research at North Carolina State University (NCSU) on water stress in turfgrass and crop species. Particular emphasis was given to identifying genetic traits that impart drought tolerance.

Shekoofa's current research in the Department of Plant Sciences centers on developing an active and nationally recognized program in crop physiology with a focus on plant water saving potential. Her true passion in research lies in discovering more about the action of the environment on plant water movement, leaves stomata conductance, transpiration response, plant resistance and resilience to environmental changes such as water and/or heat stress.

Join us for this talk, **"Better Crops for Worst Days."**

Wednesday, March 15 | 3 PM
ZOOM

[Register](#)



FedEx Institute of Technology's Technology Serving Humanity Speaker Series

Welcomes

Dr. Sandra González-Bailón
Associate Professor at the Annenberg School for Communication,
and affiliated faculty at the
Warren Center for Network and Data Sciences

González-Bailón's research lies at the intersection of network science, computational tools and political communication. She is the author of Decoding the Social World (MIT Press, 2017) and co-editor of The Oxford Handbook of Networked Communication (OUP, 2020).

Join us for her talk, **"Social and Algorithmic Choices in the Curation of Information."**

Co-hosted with the Department of Philosophy, in conjunction with the Philosophy of Social Science Roundtable.

Friday, March 17 | 3 PM
ZOOM

[Register](#)



UofM SBIR/STTR Workshop Sign-up Available on InfoReady
Spring SBIR/STTR sign-up available on the UofM InfoReady site through March 24.

Do you have a technology or intellectual property that you have developed and would like to commercialize? Are you interested in learning more about spinning out a start-up company to develop your technology? If you are interested in learning more, please join us for a Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) workshop being hosted by the Division of Research & Innovation in April (time and location TBA). For more information on the SBIR and STTR programs, visit the [SBIR website](#) >>

If you would like to participate in this Spring SBIR/STTR workshop, sign up using the application link on the [University of Memphis InfoReady website](#). Reach out to the Research Development at researchdev@memphis.edu if you have any questions or would like additional information.

[Register](#)

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