

DISC

DATA INSTITUTE FOR SOCIETAL CHALLENGES

FY26

YEAR-END REPORT



ACCELERATING DATA SCIENCE & AI FOR SOCIETAL IMPACT



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MESSAGE FROM THE INTERIM DIRECTOR



Fiscal Year 2026 was a year of growth, innovation, and impact for the Data Institute for Societal Challenges (DISC). Through interdisciplinary collaboration, strategic partnerships, and investments in people, DISC continued to strengthen the University of Oklahoma's position as a leader in data science, artificial intelligence, and convergent research.

At DISC, we believe that society's most pressing challenges cannot be solved by a single discipline. Addressing issues related to public health, climate resilience, sustainable energy security, community well-being, education, and emerging technologies requires diverse expertise, perspectives, and approaches. Throughout FY26, DISC served as a hub for these collaborations, connecting researchers, students, government agencies, industry partners, and community organizations to develop innovative, data-driven solutions with real-world impact.

This year, DISC-affiliated researchers submitted more than \$63 million in research proposals and secured nearly \$19 million in funded awards. Through our Seed Funding Program, we continued investing in high-impact interdisciplinary projects that fostered new collaborations, supported student engagement, and positioned researchers for external funding success. Since the program's inception, DISC has supported 142 research teams involving 420 researchers and has helped generate more than \$8.67 million in follow-on funding from an investment of \$1.28 million.

A defining strength of DISC is that we integrate our technical expertise with a strong commitment to people. Throughout the year, we expanded opportunities for graduate and undergraduate students to participate in research, develop technical skills, and engage in real-world problem solving. We also strengthened national and international collaborations, including partnerships focused on public health, environmental intelligence, climate-sensitive diseases, and data science workforce development. These efforts reflect our belief that investing in people and partnerships is essential to creating a lasting impact.

DISC's success is made possible by the dedication and creativity of our faculty affiliates, staff, students, collaborators, and supporters. I am grateful for the many individuals and organizations who contribute their expertise, energy, and vision to our shared mission.

As we conclude FY26, I am proud of the strong foundation DISC has built and the momentum we have created together. With the recent appointment of Dr. Shishir Shah as Director, DISC enters its next chapter well positioned to expand its impact, strengthen interdisciplinary partnerships, and advance data-driven research that addresses society's most pressing challenges. I look forward to seeing DISC continue to thrive under his leadership and remain confident that the institute's greatest accomplishments are still ahead.

A handwritten signature in black ink that reads "Michael Wimberly".

Michael Wimberly, Ph.D.
Interim Director (FY26)

MESSAGE FROM THE DIRECTOR



It is an honor to join the Data Institute for Societal Challenges (DISC) as Director and to build upon the strong foundation established through the dedication of our faculty, staff, students, collaborators, and leadership. The accomplishments highlighted in this FY26 Annual Report demonstrate the strength of DISC's interdisciplinary community and its commitment to advancing data science and artificial intelligence to address society's most pressing challenges.

As we look ahead, DISC is well positioned to expand its impact by fostering innovative research, strengthening strategic partnerships, and developing the next generation of data scientists and AI researchers. We will continue to support collaborative, convergent research that accelerates scientific discovery and translates knowledge into solutions that benefit Oklahoma and communities around the world.

Artificial intelligence and data-driven approaches are transforming every sector of society. DISC will continue to serve as a catalyst for bringing together researchers across disciplines, connecting academia with government and industry partners, and creating opportunities that advance research excellence while addressing complex societal challenges.

I look forward to working with our outstanding DISC community as we build on this momentum and pursue new opportunities for innovation, collaboration, and impact. Together, we will continue to strengthen the University of Oklahoma's leadership in data science, artificial intelligence, and interdisciplinary research.

A handwritten signature in black ink, reading "Shishir Shah". The signature is fluid and stylized, with the first and last names clearly legible.

Shishir Shah, Ph.D.
Director

FY26 IMPACT AT A GLANCE

By the Numbers: A snapshot of DISC's impact in research, innovation, and partnerships during FY26.

Research Impact

118 Proposals Submitted

\$63.77M Proposal Value

36 Funded Awards

\$18.9M Award Value

Community Engagement

30 Events Hosted

1086 Total Attendance

687 Members

875 Affiliates

Communities of Practice



Supply Chain



3D Workflow



Human-Centered Trustable AI



Digital Humanities



Hydrometeorology



Cybersecurity, Blockchain, Mobile Computing & Computer Networks

AI Innovation

229 AI Symposium
Attendees

Seed Funding

\$284,863 Funding
Awarded

28 Projects
Supported

83 Number of
Researchers

Long-Term Impact

142 Teams
Supported

420 Researchers
Supported

\$1.28M Seed Funding
Invested

\$8.67M Follow-On Funding
Generated

*Based on reports submitted

ABOUT DISC:

The Data Institute for Societal Challenges (DISC) at the University of Oklahoma stands at the forefront of leveraging data science to address pressing issues facing our society. As an interdisciplinary hub, DISC brings together diverse expertise, cutting-edge technology, and innovative thinking to tackle complex problems that impact Oklahoma, the nation, and the world.

Mission

Empower transdisciplinary research and collaboration to drive convergent solutions to societal challenges through data science research, tools, and capabilities.

Vision

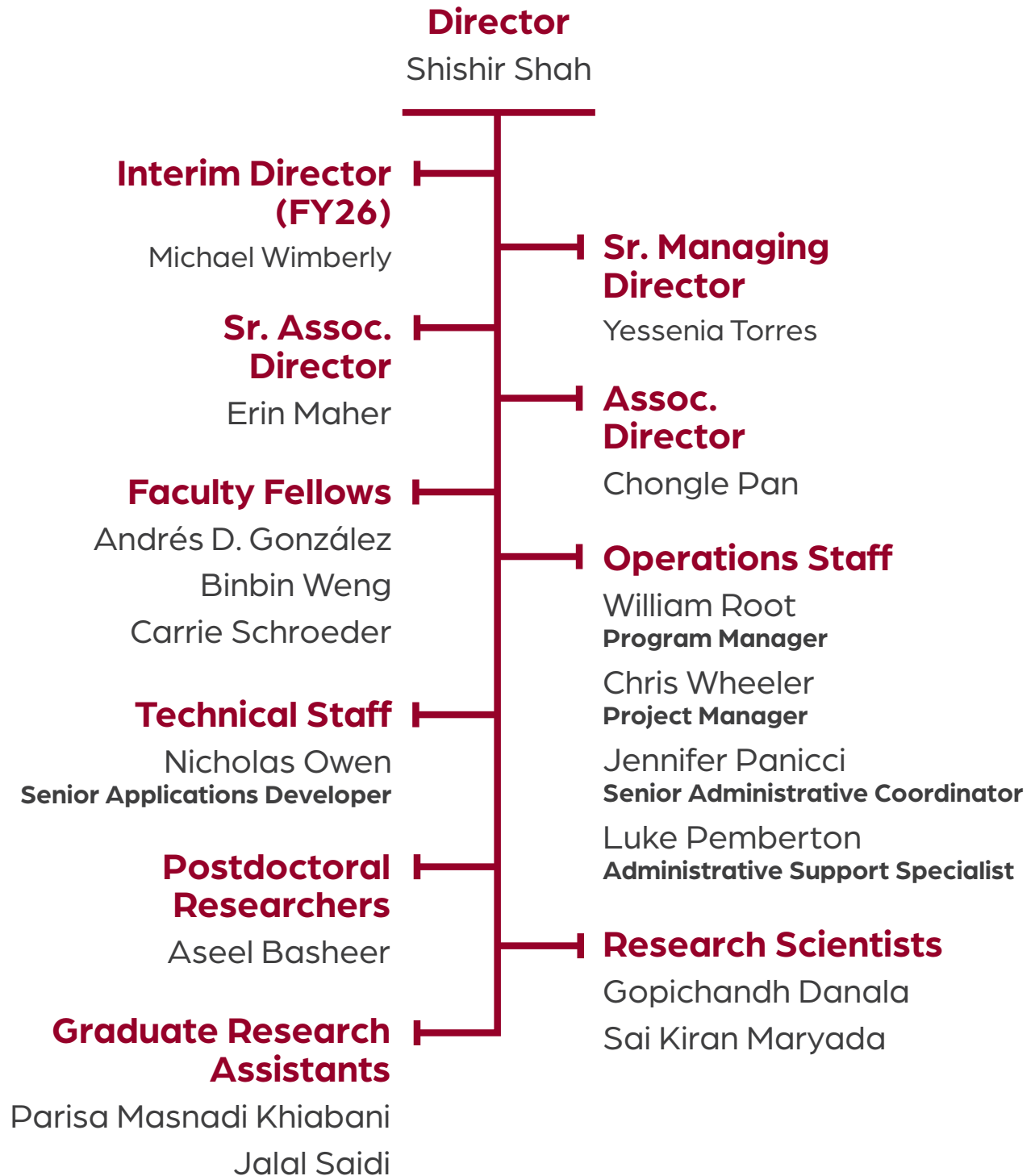
Position the University of Oklahoma as a nationally recognized leader in data science research and data-driven solutions to societal challenges.

Values

- **Collaboration**
Together, we are more effective in solving challenges.
- **Innovation**
Create new techniques, tools, and data-enabled solutions to positively impact our global community.
- **Opportunity**
Provide opportunities for teams from different backgrounds and experiences to become integrated into our educational initiatives, research activities, and collaborations.
- **Trust**
Through our actions, we build trust – core to transdisciplinary team success, transition to societal impact, and sustainability.
- **Empowerment**
Empower convergent research teams to solve societal challenges.



ORGANIZATIONAL STRUCTURE



RESEARCH ADVANCEMENT & MAJOR PARTNERSHIPS

DISC continued to serve as a catalyst for interdisciplinary research by supporting proposal development, team formation, project management, technical expertise, and strategic partnerships.

FY26 Research Activity

118 Proposals
Submitted

\$63.77M Proposal
Value

36 Awards
Received

\$18.9M Award
Value

Featured Research Impact & Major Partnerships

National Suicide Prevention Dashboard

DISC partnered with the Department of Sociology and the National Suicide Prevention Center to support the National Action Alliance for Suicide Prevention in developing a public dashboard tracking progress toward the 2024–2034 National Strategy for Suicide Prevention.

Oklahoma Preschool Development Grant Evaluation

DISC Senior Associate Director, Dr. Erin Maher, serves as Co-PI on the evaluation of Oklahoma’s Preschool Development Grant Birth to Five initiative, a \$1.2 million project supporting evidence-based improvements in early childhood education.

Global Health and Climate Intelligence

DISC researchers, including Dr. Mike Wimberly, Interim Director; Dr. Gopichandh (Gopi) Danala, Research Scientist; and Dr. Sai Kiran Maryada, Research Scientist, continued advancing international research efforts focused on climate-sensitive diseases, malaria forecasting, environmental health, and public health decision support through collaborations spanning the United States, India, Peru, and Africa.



SEED FUNDING IMPACT

The DISC Seed Funding Program continues to serve as a cornerstone of the institute’s mission to accelerate interdisciplinary research and catalyze innovative solutions to societal challenges. By providing early-stage support for high-potential projects, DISC enables researchers to generate preliminary results, establish new collaborations, pursue transformative ideas, and compete successfully for external funding opportunities.

FY26 Investment

During FY26, DISC invested \$284,863 in seed funding to support 28 innovative research projects across faculty, postdoctoral, and graduate student funding tracks.

Funding Track	Amount Awarded	Projects Supported
Faculty	\$224,875.00	12
Postdoctoral Researchers	\$40,000.00	8
Graduate Students	\$19,988.14	8
Total	\$284,863.14	28

These investments supported researchers from a diverse range of disciplines, fostering new collaborations and advancing research aligned with DISC’s mission of addressing complex societal challenges through data science and artificial intelligence.

A complete list of FY26 Seed Funding Program awardees and funded projects is provided in Appendix A.

Program Impact Since Launch

Since its inception, the DISC Seed Funding Program has demonstrated a strong return on investment by helping researchers secure external funding, launch new research directions, and build interdisciplinary teams.



The program has become a critical mechanism for advancing innovative research, strengthening Oklahoma’s research ecosystem, and positioning University of Oklahoma researchers for long-term success.

Note: Impact metrics are based on outcomes reported to DISC by seed funding recipients through final reports, progress updates, and other documented project outcomes. Actual impacts may exceed these values, as not all follow-on funding, publications, partnerships, student achievements, and other project outcomes are reported back to DISC.

COMMUNITY ENGAGEMENT



DISC continued to foster collaboration, knowledge sharing, and interdisciplinary engagement across the University of Oklahoma and beyond. Through symposiums, speaker events, panels, workshops, and Communities of Practice activities, DISC connected researchers, students, industry professionals, government agencies, and community partners to advance data-driven solutions to societal challenges.

FY26 Community Engagement at a Glance

30 Events
Hosted

1,086 Total
Attendance

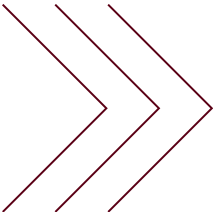
Signature Events

DISC Annual Symposium

On April 7, 2026, DISC hosted its Annual Symposium at the OU Memorial Union, bringing together more than 160 faculty, researchers, students, and partners from across the University of Oklahoma and beyond. The symposium showcased interdisciplinary research and collaboration through keynote presentations, panel discussions, breakout sessions, and poster presentations spanning data science, artificial intelligence, health, environmental sustainability, and societal impact. The event served as a platform for sharing innovative research, fostering new collaborations, and highlighting how data-enabled approaches are addressing real-world challenges.

OU AI Symposium

The OU AI Symposium attracted 229 attendees and highlighted the university's growing leadership in artificial intelligence research, education, and responsible implementation. The symposium featured outcomes from the AI Pilot Funding Program, presentations from AI Working Groups, and discussions on future opportunities for AI across research, teaching, and operations.

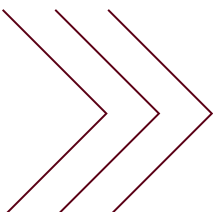


Speaker Series and Interdisciplinary Panels

DISC hosted a variety of guest speakers, seminars, and interdisciplinary panels throughout FY26 that promoted collaboration and knowledge exchange across disciplines.

Highlights included:

- AI in Health Panel, exploring the role of artificial intelligence in healthcare research and innovation.
- Energy Panel Seminar, bringing together experts from engineering, economics, finance, and public policy to discuss emerging trends in energy systems, markets, and policy.
- DISC Speaker Series events featuring researchers and practitioners addressing topics at the intersection of data science, artificial intelligence, health, resilience, and societal challenges.

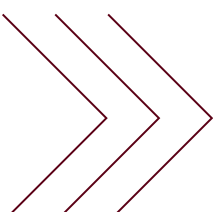


Communities of Practice

DISC's Communities of Practice initiative continued to strengthen interdisciplinary connections by creating spaces for researchers, students, and practitioners to collaborate around shared interests and emerging research opportunities.

Active Communities of Practice during FY26 included:

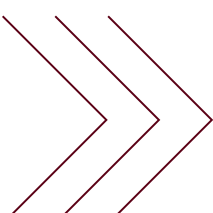
- Supply Chain
- Digital Humanities
- 3D Workflow
- Hydrometeorology
- Human-Centered Trustable AI
- Cybersecurity, Blockchain, Mobile Computing, and Computer Networks



Hydrometeorology Community Reception

One of the year's highlights was the Hydrometeorology Community of Practice Reception, held on May 13, 2026, at the National Weather Center. The event was held in partnership with the Cooperative Institute for Research to Operations in Hydrology (CIROH), a national consortium dedicated to advancing water prediction, including forecasting streamflow, extreme events such as floods and droughts, and water quality, while building community resilience to water related challenges. CIROH is a partnership between NOAA and the University of Alabama.

The event brought together 60 faculty, researchers, and students from across campus as part of the Hydrology/Meteorology Interface Workshop. Participants discussed topics ranging from atmospheric processes and water systems to climate resilience and environmental forecasting. The reception provided an opportunity to build new collaborations and strengthen OU's hydrometeorology research community while advancing DISC's mission of fostering interdisciplinary engagement.



Building a Collaborative Research Community

Through its events, symposiums, speaker series, and Communities of Practice, DISC continues to cultivate a vibrant research ecosystem that promotes collaboration, supports innovation, and connects people across disciplines. These activities play a critical role in developing new partnerships, generating research ideas, and advancing the university's capacity to address complex societal challenges.

STUDENT RESEARCH & WORKFORCE DEVELOPMENT

Developing the next generation of researchers, data scientists, and innovators remains central to DISC's mission. During FY26, DISC provided students with opportunities to engage in interdisciplinary research, develop technical skills, contribute to real-world problem solving, and gain recognition for their academic achievements.

Graduate Student Achievement Spotlight



Parisa Masnadi Khiabani

Parisa Masnadi Khiabani, a Ph.D. candidate and Graduate Research Assistant, had an exceptional year marked by accomplishments in research, professional development, and academic excellence. She co-authored a peer-reviewed publication in the Journal of Clinical Medicine, contributing to interdisciplinary research with real-world impact. Her research was further recognized through the acceptance of an abstract for presentation in the Energy-Climate Cluster, providing an opportunity to share her work with scholars and practitioners from across disciplines.

In recognition of her academic achievements, Parisa received both the Gallogly College of Engineering Graduate Fellowship and the Dorothy Grace Barkow Scholarship. She also earned a Cyber Security Workshop Certificate, expanding her expertise in a rapidly evolving field and demonstrating her commitment to continuous professional growth.



Jalal Saidi

Jalal Saidi, a Ph.D. candidate and Graduate Research Assistant, had an outstanding year marked by significant contributions in artificial intelligence, data science, and high-performance computing. He developed a GeoAI dataset containing more than 140,000 location descriptions for hierarchical geographic information extraction and trained multiple open-source large language models (LLMs), with his flagship fine-tuned model outperforming the GPT-4 benchmark reported in the literature by approximately 6%. He also designed and evaluated a Retrieval-Augmented Generation (RAG) system for the medical domain, demonstrating improved question-answering accuracy through optimized retrieval strategies.

Jalal further advanced his expertise by completing the IBM RAG and Agentic AI Professional Specialization and applying this knowledge to develop a medical RAG system. He also prototyped an AI-Assisted Suicide Prevention Dashboard integrating conversational AI and interactive visualizations to support data-driven decision-making. In addition, he secured NSF ACCESS cyberinfrastructure resource credits to support large-scale AI research and received travel support to attend the Summer PACES Research Training Workshop focused on advanced cyberinfrastructure, high-performance computing, and AI/ML research.

Undergraduate Research Experience

DISC continued to support undergraduate research through the First-Year Research Experience (FYRE) program and other mentored research opportunities.

Public Health Analytics in Peru

Under the supervision of Dr. Gopichandh Danala, undergraduate researchers Alaina Jawed and Arnav Dutta conducted projects focused on acute respiratory infections (ARIs) in Peru using public health surveillance and population data.

Alaina Jawed developed an interactive Tableau dashboard to examine the spatiotemporal distribution of pneumonia across Peru, identifying important geographic differences in disease burden and highlighting areas where mortality rates remain high despite limited hospitalization rates. She presented her findings at the 2026 FYRE Undergraduate Research Showcase.

Arnav Dutta conducted exploratory data analysis and data engineering activities using Python-based tools to integrate and standardize more than two decades of surveillance and population data. His work revealed long-term epidemiological trends and regional variations in ARI burden, contributing to a broader understanding of respiratory disease dynamics. Arnav also presented his findings at the 2026 FYRE Undergraduate Research Showcase.

Applied Data Science and Machine Learning Training

Graduate students Anvitha Reddy Thummalapally and Lakshmi Sahasra Jangoan, enrolled in the DSA 5900 Professional Practicum course and mentored by Dr. Danala, developed machine learning models to forecast acute respiratory infection incidence in Peru. Their project incorporated demographic, population, and health surveillance data and evaluated multiple statistical and machine learning approaches, including Random Forest and XGBoost models. Their findings demonstrated the potential of data-driven forecasting methods to support public health planning and resource allocation in high-burden regions.

International Workforce Development

OU-UNSA Healthcare Analytics with Data Science (HADS) Practicum

DISC expanded its international educational impact through a collaboration between the University of Oklahoma and the Universidad Nacional de San Agustín de Arequipa (UNSA), Peru. Led by Dr. Gopichandh Danala, Dr. Charles Kenney, Dr. Michael C. Wimberly, and Jesús Silva, the Healthcare Analytics with Data Science (HADS) Practicum provided hands-on training in healthcare analytics, machine learning, forecasting, and model interpretation.

The semester-long program engaged 20 undergraduate Systems Engineering students who worked in multidisciplinary teams to develop predictive models and data pipelines addressing critical public health challenges, including acute respiratory infections, acute diarrheal disease, and dengue fever. By integrating environmental, demographic, and socioeconomic data, the practicum demonstrated how international collaborations can strengthen workforce development while addressing locally relevant public health needs.

Student Awards and Recognition

Students mentored by DISC Fellow Andrés D. González received several prestigious honors during FY26, reflecting the strength of DISC-supported research and mentorship:

- Best Ph.D. Thesis Award – Himadri Sen Gupta, School of Industrial and Systems Engineering (2026)
- Best M.S. Thesis Award – Tanmoy Palit, School of Industrial and Systems Engineering (2026)
- Provost's Doctoral Dissertation Prize Honorable Mention – Himadri Sen Gupta (2026)
- Dissertation Excellence Award – Himadri Sen Gupta, Gallogly College of Engineering (2025)

These accomplishments highlight DISC's continued commitment to preparing students for leadership roles in research, industry, government, and academia.

THE VALUE OF DISC

The Data Institute for Societal Challenges serves as a catalyst for interdisciplinary research, innovation, and collaboration at the University of Oklahoma. By bringing together researchers, students, industry partners, and community organizations, DISC helps transform ideas into impactful solutions that address complex societal challenges.

DISC provides the infrastructure, expertise, and support needed to accelerate research and innovation. Through proposal development assistance, project management support, technical expertise, workforce development opportunities, and seed funding investments, DISC reduces barriers to collaboration and enables researchers to pursue ambitious, high-impact projects.

The institute's impact extends beyond research funding. DISC fosters new partnerships, supports student success, advances artificial intelligence and data science capabilities, and creates opportunities for interdisciplinary teams to address challenges in public health, climate resilience, energy, education, supply chain systems, and community well-being.

As the university continues to expand its leadership in data science and artificial intelligence, DISC remains uniquely positioned to connect expertise across disciplines, foster innovation, and translate research into meaningful societal outcomes.

Looking Ahead to FY27

Building on the momentum of FY26, DISC will continue advancing its mission of empowering transdisciplinary research and collaboration to address society's most pressing challenges through data science and artificial intelligence.

Key Priorities for FY27 include:

Expand Research Excellence

Continue supporting interdisciplinary teams in the development of competitive proposals, strategic partnerships, and innovative research initiatives that increase external funding and scholarly impact.

Strengthen Strategic Partnerships

Expand collaborations with government agencies, industry partners, nonprofit organizations, tribal nations, and academic institutions to increase opportunities for research, innovation, and societal impact.

Grow Communities of Practice

Support existing Communities of Practice while cultivating new collaborative networks that connect researchers across disciplines and foster the exchange of ideas, expertise, and resources.

Invest in Students and Workforce Development

Provide students with meaningful research experiences, professional development opportunities, and hands-on training that prepares them for careers in academia, industry, government, and the nonprofit sector.

Expand Seed Funding Opportunities

Continue investing in early-stage, high-potential research projects that generate new collaborations, support innovative ideas, and position researchers for external funding success.

Enhance Research Infrastructure and Technical Capabilities

Strengthen DISC's technical expertise, data science resources, and AI capabilities to better support researchers and accelerate the development of data-driven solutions.

Through these efforts, DISC will continue to serve as a university-wide hub for collaboration, innovation, and impact while advancing the University of Oklahoma's position as a national leader in data science, artificial intelligence, and convergent research.

APPENDIX A

FY26 DISC Seed Funding Awardees

Faculty Seed Funding Awards

Project Title	Principal Investigator(s)	Award Amount
Modeling Human Errors in Child Maltreatment Information Systems via Biometric Measures and Deep Learning	Yuitian Thompson, Yaqi Li, Zihong Kang	\$12,500
Task-Aware Compression for Communication-Efficient Multi-Robot Mapping	Ali Reza Pedram, Dean Hougren	\$12,500
Linking Clinical and Environmental Data to Study Pediatric Neurodevelopment	Xiaolan Liao, David Bard, Chanjie Cai, Dan Liao, Anni Yang	\$12,500
Predictive Network Models for Preoperative Assessment of Tumor-Related Functional Disruptions	Farnaz Esfahlani, Sina Khanmohammadi	\$12,375
Robust AI-Driven Multimodal Gait Analysis for Early Detection of Chemotherapy-Induced Neuropathy	Golnaz Habibi, Elizabeth Hile	\$12,500
MyeloMetrix™ : A Data-Driven Clinical Decision Support Platform for Degenerative Cervical Myelopathy	Fauziyya Muhammad, Zachary Smith, Sina Khanmohammadi	\$25,000
AI-Driven Digital Twin Modeling of Human Organ-Level Toxicity for Emerging Environmental Contaminants	Tingting Gu, Qinggong Tang, Tri Vu, Chongle Pan	\$25,000
Early Immune-Relapse Prediction in AML Post-Allogeneic HSCT via AI-Integrated High-Dimensional Profiling	Marmar Moussa, Jennifer Chakrabarty	\$25,000
4-D Characterization of Fault-Fluid-Reservoir Systems for Secure, Sustainable, and Resilient Energy in Oklahoma	Junle Jiang, Jacob Walter, Paul Ogwari, Son Dang	\$25,000
Data-Driven Early Ovarian Cancer Detection Using Label-Free Immune Cell Signatures	Rupa Haldavnekar, Jian Zhao, Yesodha Kesavan, Riya Manandhar, Yuening Zhang, Zhou Jiang	\$25,000
AI-Enabled Time-Series Modeling of Daily Functional Organization to Support Early ADRD Care	Ziming Liu, Yi Wu, Jiqun Liu, Tara Klindinst, Claire North	\$25,000
Assessing the Biophysical and Hydrological Impacts of Hydraulic Fracturing in the Anadarko Basin, Oklahoma	Nishan Bhattarai, Jayash Paudel, Xie Yanhua, Thomas Neeson, Xiangming Xiao, Kathy Pegion	\$12,500

Total of Faculty Awards: \$224,875.00

Graduate Student Seed Funding Awards

Project Title	Student Investigator(s)/Mentor(s)	Award Amount
Beyond Two Dimensions: Evaluating the Added Explanatory Power of 3D Urban Morphology for Carbon Emissions in Phoenix Metropolitan with GeoAI Approaches	Siyu Liu, Mingze Zhu	\$2,488
Deep Learning Image Reconstruction for Automating Low-Cost FPM Whole Slide Scanners	Patrick Gilley, Yuchen Qiu, Kar-Ming Fung	\$2,500
Elucidating the Renal Proteome in Preservation: A Paired-Kidney Study Comparing Hypothermic Machine Perfusion and Static Cold Storage	Yan Cui, Chongle Pan, Qinggong Tang	\$2,500
Deep-Learning-Assisted Photoacoustic and Ultrasound Evaluation for Pre-Transplant Human Liver Viability	Qinghao Zhang, Yan Cui, Qinggong Tang, Tri Vu	\$2,500
Defining the Role of PDX1 in Colorectal Cancer Progression within the Serrated Pathway	Olajumoke Oladapo, Marmar Moussa	\$2,500
IR-See: Practical PIN Inference via Infrared Side Channel in Virtual Reality	Guanchong Huang, Kyumin Lee, Song Fang	\$2,500
Closing the Divide Between Contemporary Genomic Training and Ancient DNA Challenges	Alice Lee, Brittany Bingham, Courtney Hofman	\$2,500
Hardware-in-the-Loop Validation of Physics-Informed Machine Learning for Battery Control	Yuichi Kaijura, Wonoo Choo, Jorge Espin, Zhicheng Xu	\$2,500

Total Graduate Student Funding: \$19,988.14

Postdoctoral Seed Funding Awards

Project Title	Postdoctoral Researcher(s)/Mentor(s)	Award Amount
Short-Term In-Situ Monitoring of Urban Surface Energy Balance under Shaded and Unshaded Conditions	Cathleen Simatupang, Chenghao Wang	\$5,000
Phylogenetic, Ecological, and Spatial Drivers of Multi-Pathogen Sharing in Neotropical Bat Communities	Amanda Vicente Santos, Daniel Becker	\$5,000
Edge-Enabled Deep Learning for Induced Seismicity Detection in Oklahoma	Hongyu Xiao, Jacob Walter	\$5,000
Physics-Informed Deep Learning Model for Paddy Rice Mapping	Di Liu, Chengbin Deng	\$5,000
Data-Driven Framework for Predicting Warming-Induced Reorganization of Soil-Borne Pathogen Communities	Shun Han, Dailing Ning, Jizhong Zhou	\$5,000
Genomic Investigation of Coronavirus Diversity in Neotropical Fruit Bats	Ansil Rahath, Daniel Becker	\$5,000
Enhancing Physics-Informed Neural Networks for Real-Time Volumetric In Vivo Dosimetry	Yuchen Song	\$5,000
Data-Driven Assessment of Irrigation Pressure on Wetlands Across the Southern-Central U.S. High Plains	Chechen Zhang, Yanhua Xie	\$5,000

Total Postdoctoral Funding: \$40,000

APPENDIX B

Publications and Scholarly Products

- Ahmed, S. T., Vo, A. H., Ojutu, G. T., & Dai, J. In Situ Micromechanical Fracture Testing of Aligned Carbon Nanotube/Silicon Oxycarbide Nanocomposites. *Submitted to the AIAA SciTech 2027 Forum*.
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- Arezoumand, A., Danala, G., Khanmohammadi, S., et al. (2026). Detecting pediatric supraventricular tachycardia from baseline ECGs using hybrid ensemble learning. *Proc. SPIE 13926, Medical Imaging 2026: Computer-Aided Diagnosis*, 1392636. <https://doi.org/10.1117/12.3077949>
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