



AGENDA FOR PUBLIC/CLOSED SESSION

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|--|---|
| Call to Order | Chair Bill Wood |
| 1. <u>Approval of Minutes</u> | Regent Bill Wood |
| 2. <u>Research Report for Frostburg State University</u> | Senior Associate Vice President Jennifer Walsh |
| 3. <u>Research Report for Bowie State University</u> | Vice President for Research and Innovation
Yvonne Harris |
| 4. <u>Salisbury University Innovation Update</u> | Executive Director of Entrepreneurship Michael Jensen |
| 5. Research Landscape Update | Vice Chancellor Michele Masucci |

Approval of Minutes



UNIVERSITY SYSTEM
of MARYLAND

BOARD OF REGENTS
COMMITTEE ON Research and Economic Development
11/21/2025
Meeting via Video and Conference Call

Minutes of the Public Session

Regent Wood called the meeting of the Research and Economic Development Committee of the University System of Maryland Board of Regents to order in public session at 10:00 a.m. on 11/21/2025 via Zoom.

Those in attendance included Regents Bill Wood, Harry Coker Jr., Anwer Hasan, Robert Hur, Dhruvak Mirani, Michele Speaks; Chief of Staff to the Chancellor Denise Wilkerson; Vice Chancellors Michele Masucci, Mike Sandler, and Susan Lawrence; Lindsay Ryan, Julia Chadwick, Michael Ravenscroft, Ronald Williams, Margarita Cardona.

1. **Approval of Minutes (action)** The Regents reviewed and approved the minutes for the October 10 meeting of the Research and Economic Development Committee.
(Regent Coker moved recommendation, seconded by Regent Speaks; approved)
Vote Count = Yeas: 6 Nays: 0 Abstentions: 0
2. **Maryland Momentum Fund Update (information)** Michael Ravenscroft gave an informational presentation on the state of the Maryland Momentum Fund in Q3 of 2025. This included a highlight of notable companies the Maryland Momentum Fund invested in, and an overview of the state of the investment market. All meeting materials are available on the USM website.
3. **Research Report for Coppin State University (information)** Interim Dean for Graduate Studies Ronald Williams gave the research report for Coppin State University to the Research and Economic Development Committee. Dean Williams highlighted Coppin's Centers of Excellence, grants funded, awards, and partnerships and collaborations with other institutions. Dean Williams also spoke about the future of research enterprise at Coppin, highlighting the expansion of their Graduate Studies program with a research focus. All meeting materials are available on the USM website.
4. **Research Report for University of Baltimore (information)** Assistant Provost for Sponsored Research Margarita Cardona gave the research report for the University of Baltimore to the Research and Economic Development Committee. The report highlighted the structure of the Sponsored Research office, grants and contracts received in fiscal year 2025, specific academic research institutes, and specific notable research projects – namely the Overdose Detection Mapping Application Programs (ODMAP). All meeting materials are available on the USM Website.

5. **Research Landscape Update (information)** Vice Chancellor for Research and Economic Development Michele Masucci provided an update on the research landscape to the Research and Economic Development Committee. Vice Chancellor Masucci spoke about the proposed “FAIR” model for FNA, which has received some support in the Senate, with several USM institutions involved in its development. She also spoke about upcoming USM Research and Economic Development events, including a 1/6/2025 convening of the Research and Economic Development Partners, and a Symposium focused on responsible conduct of research at 4MLK on March 27.
6. **Convene (action)** Regent Wood read the closing statement and opened the floor for a motion to adjourn.
(Regent Coker moved recommendation, seconded by Regent Mirani; approved)
Vote Count = Yeas: 6 Nays: 0 Abstentions: 0

The public meeting was adjourned at 11:26 p.m.

Respectfully submitted,

Committee Chair William Wood
Chair, Committee on Research and Economic
Development

Research Report for Frostburg State University

The Frostburg State University Outdoor Recreation Economy Institute

*"Positioning Outdoor Recreation as a
Regional Economic Development Strategy"*

*Prepared for:
USM Board of Regents
Committee on Research & Economic Development
January 9, 2026*



What is the Outdoor Economy?



- ✓ Economic Activity Generated by Participation in Outdoor Activities
- ✓ \$1.2 Trillion in Economic Output and 5 Million Jobs (U.S., BEA 2023)
- ✓ \$9.4 Billion Value Added and 82,000 Jobs (MD, BEA 2023)
- ✓ Includes the Three PRO's: Producers, Providers, Professionals
- ✓ 181 Million Participants Nationally; 3.4 Million in Maryland (OIA, 2024)

Outdoor Economy in Action



Youghiogheny River
Friendsville, MD

**Commercial outfitters, guides, lodging, and food service
supported by public river access**



What Makes the Outdoor Economy Work?



Public Lands Form the Backbone of the Outdoor Economy



Outdoor Entrepreneurs Activate These Assets



Healthy Outdoor Economy Ecosystems Maximize Community Returns



Rural Regions are Uniquely Positioned to Benefit

About FOREI



- ✓ Established in Early 2024
- ✓ 100% Grant Funded: ARC, Maryland Department of Commerce, EDA, RMC
- ✓ \$1.77 Million Secured to Date
- ✓ FOREI serves as a convener and connector – linking communities, businesses, public agencies, and university resources.
- ✓ Our goal is to help outdoor recreation function as a true economic development strategy, not just a tourism amenity.

FOREI's Focus



- ✓ Stakeholder Engagement
- ✓ Workforce Development
- ✓ Business & Entrepreneur Support
- ✓ Experiential Programming
- ✓ Data Collection & Analysis
- ✓ Advocacy for Recreation Assets

Workforce Development & Experiences



Established Three Workforce Development Initiatives with Local Partners



Developed FSU CANOE in Collaboration with the FSU Recreation & Parks Management Program



Participating in the National Outdoor Recreation Workforce Development Consortium

Business & Entrepreneur Support



**Developed Curriculum and
Delivered Two Outdoor
Entrepreneur Workshops**



**FOREI is Leading the
Establishment of OBAAM,
Including Identifying Outdoor
Business Needs**



**Actively Participating in
Strategic Planning with the
State Outdoor Business Alliance
Network**

Data Collection & Analysis



Contributed to Planning and Economic Impact Reporting for the Inaugural Maryland Outdoor Recreation Summit



FOREI BASELINE Project: Benchmark Analysis for Strategic Economic Landscapes across the Interstate Natural Economy



Creating an Online Outdoor Economy Dashboard with Recreation Infrastructure & Businesses Displayed

THANK YOU!



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Executive Director
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(301) 501-1516



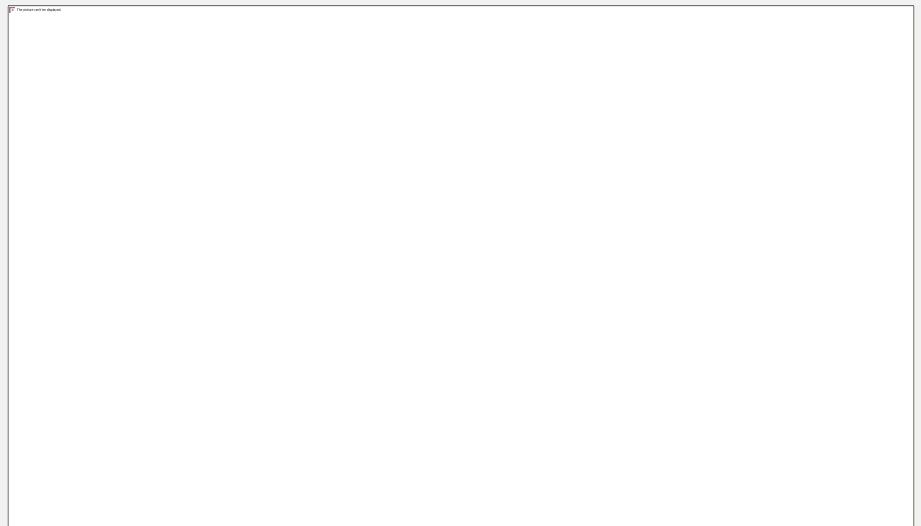
**University System of Maryland
Board of Regents**

**Committee on Research &
Economic Development**

“

Bowie State University empowers a diverse population of students to reach their potential by providing innovative academic programs and transformational experiences as they prepare for careers, lifelong learning and civic responsibility. Bowie State University supports Maryland’s workforce and economy by engaging in strategic partnerships, research and public service to benefit our local, state, national and global communities.

~The [Boldly Forward FY26-29 Strategic Plan](#)



Academic Programs

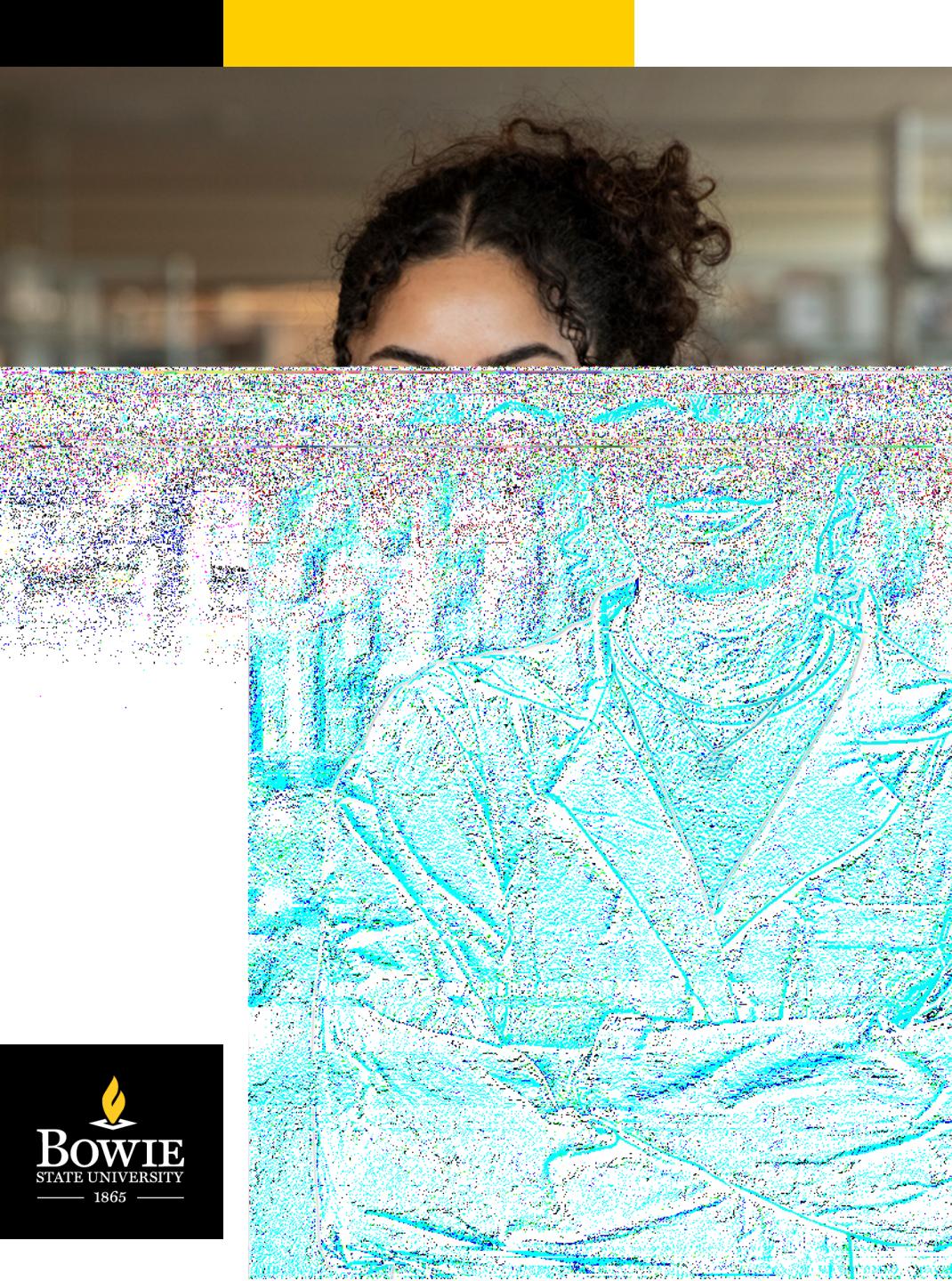
30+ undergraduate majors
21+ master's degrees
18+ post-bachelor's certificates
3 doctoral programs





Enrollment – Fall 2025

- **5,970 Total**
- **4,810 Undergraduate students**
- **855 First-time, full-time freshmen**
- **1,160 Graduate students**
- **37 states represented**



Bowie State University Centers and Laboratories

- **Center for Data Analytics**
- **Entrepreneurship Innovation Center**
- **Center for Natural Sciences, Mathematics and Nursing**
- **Biotechnology Core Laboratory**
- **Center for Cyber Security and Emerging Technologies (CCET)**
- **Autonomous Technologies Laboratory**
- **Artificial Intelligence Research**
- **Information and Infrastructure Security and Assurance**
- **Virtual Reality Laboratory**

Biotechnology and Biomedical Research

Department of Natural Sciences

Topics of research or interdisciplinary research:

- Biodiversity assessment of tropical and subtropical plants using DNA barcoding and fingerprinting
- Microbiome/Metagenomics studies
- Profiling of plant metabolites for medicinal and agricultural purposes using metabolomics approaches
- Drug discovery, synthesis and development research
- Deployment of peptides, neuropeptides and antimicrobial molecules for vaccine development and disease management

Autonomous Technologies

Department of Computer Science

Topics of Research and Interdisciplinary Focus:

Designing and Developing Algorithms and Technologies to improve the ability of software systems and hardware components to perform autonomously in real-time environments.

Research in broad fields such as AI, robotics, machines learning, artificial cognition, data mining, bioinformatics, and sensor data integration.

Integrating hardware and software components to create autonomous artifacts that can operate under different variable conditions and time-constraints.

Artificial Intelligence Research

Department of Computer Science

Topics of Research and Interdisciplinary Focus:

- **Autonomous Systems**: Exploring advanced AI-driven autonomous technologies that operate independently in complex environments.
- **Cyber-Physical Systems**: Investigating integrated systems that combine computational algorithms with physical processes.
- **Sensing and Information Fusion**: Developing methods to integrate and process data from multiple sensors
- **Multimodal Synthetic Data Generation**: Creating realistic datasets across different modalities such as text, images, radar, and audio to support machine learning applications.
- **Human-Robot Interaction and Real-World Deployment**: Studying effective frameworks for human-robot collaboration.

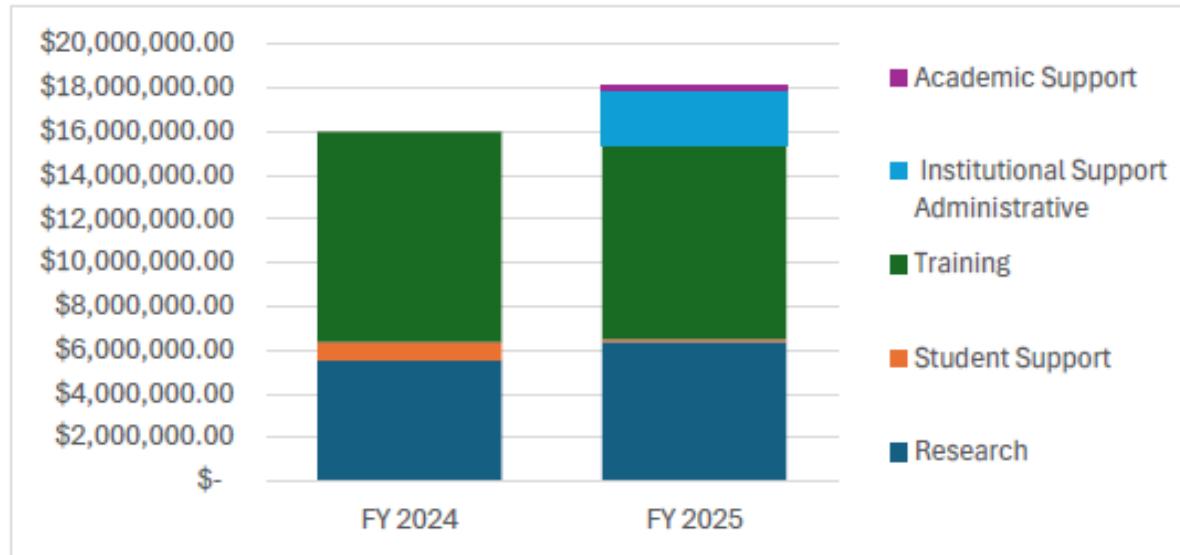
Center for Cybersecurity and Emerging Technologies (CCET)

Department of Computer Science

Topics of Research and Interdisciplinary Focus:

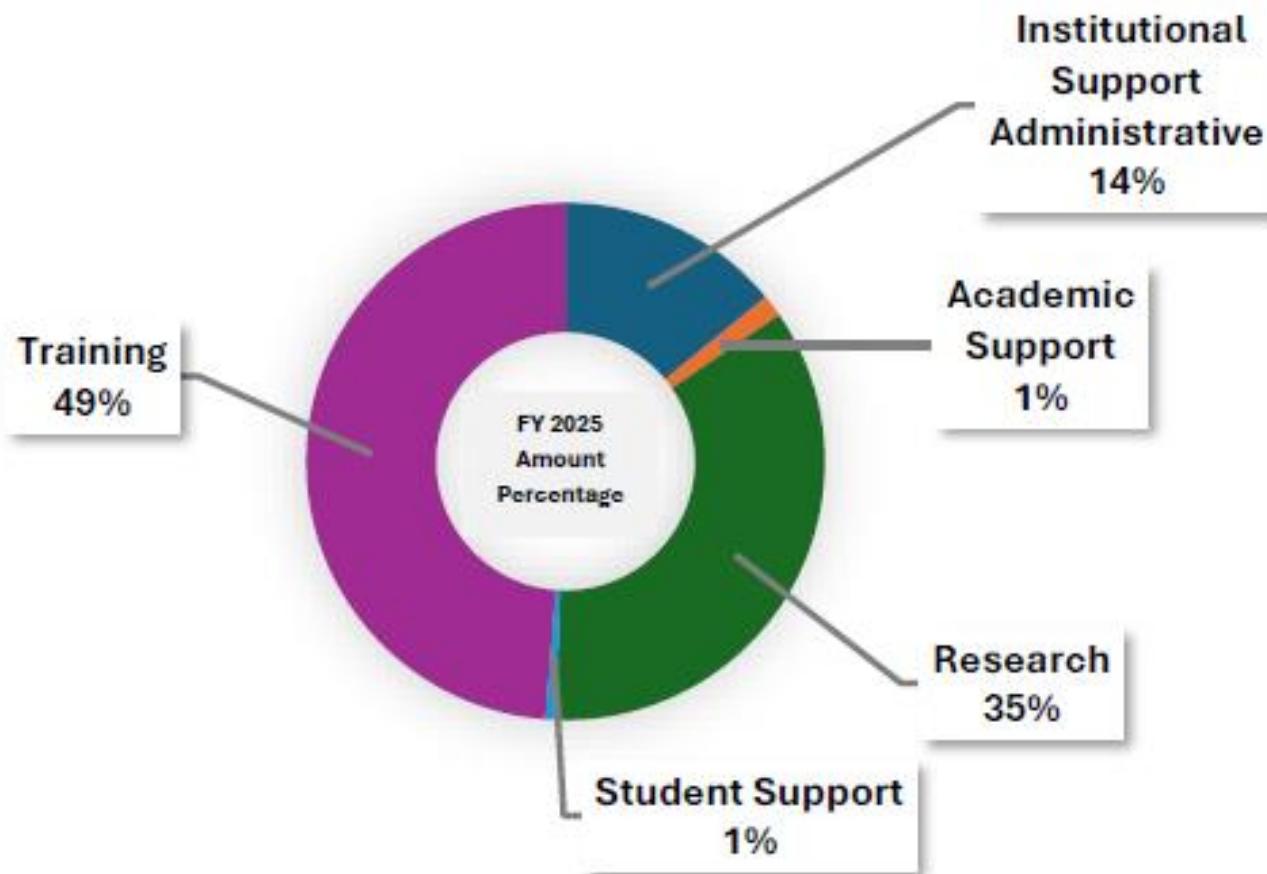
- **Blockchain Security in the Quantum Era**: Analyze how blockchain protocols can be fortified against quantum threats.
- **IoT Security**: Research secure protocols and frameworks for protecting IoT devices from cyber threats
- **Software Security**: Focus on vulnerabilities and defenses in software systems
- **Digital Forensics**: Investigate digital forensics techniques in a quantum computing landscape,
- **Blockchain Technologies**: Study the future of blockchain in terms of scalability, security, and efficiency, particularly in relation to its interaction with quantum computing and cryptography.

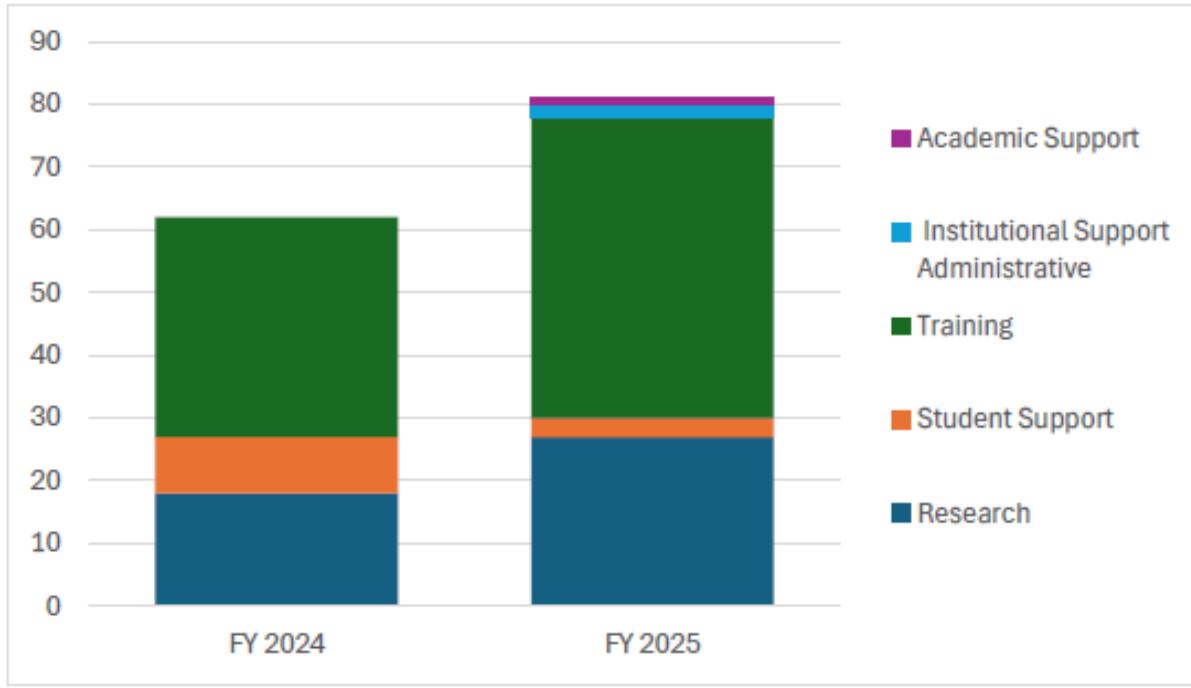
FY 2025 Awarded Projects (FY24-FY25)



PURPOSE OF FUNDING	FY2024	FY2025
Institutional Support Administrative	\$ 2,550,000.00	\$ 2,550,000.00
Academic Support	\$ 249,369.00	\$ 249,369.00
Research	\$ 5,533,560.02	\$ 6,388,020.28
Student Support	\$ 832,045.00	\$ 110,660.00
Training	\$ 9,621,010.58	\$ 8,844,829.59
Total	\$ 15,986,615.60	\$ 18,142,878.87

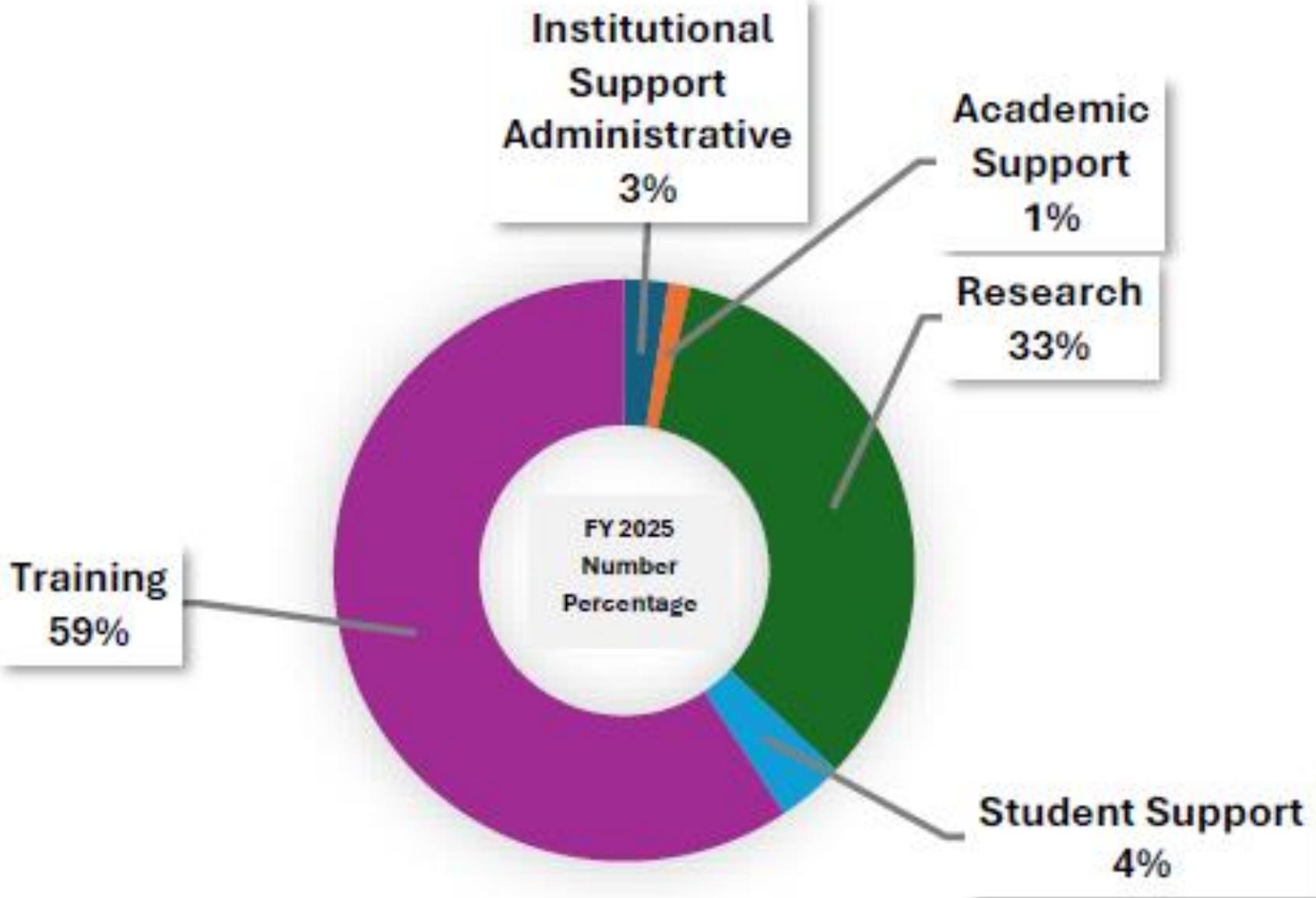
FY2025 Amounts and Numbers of Awards by Purpose



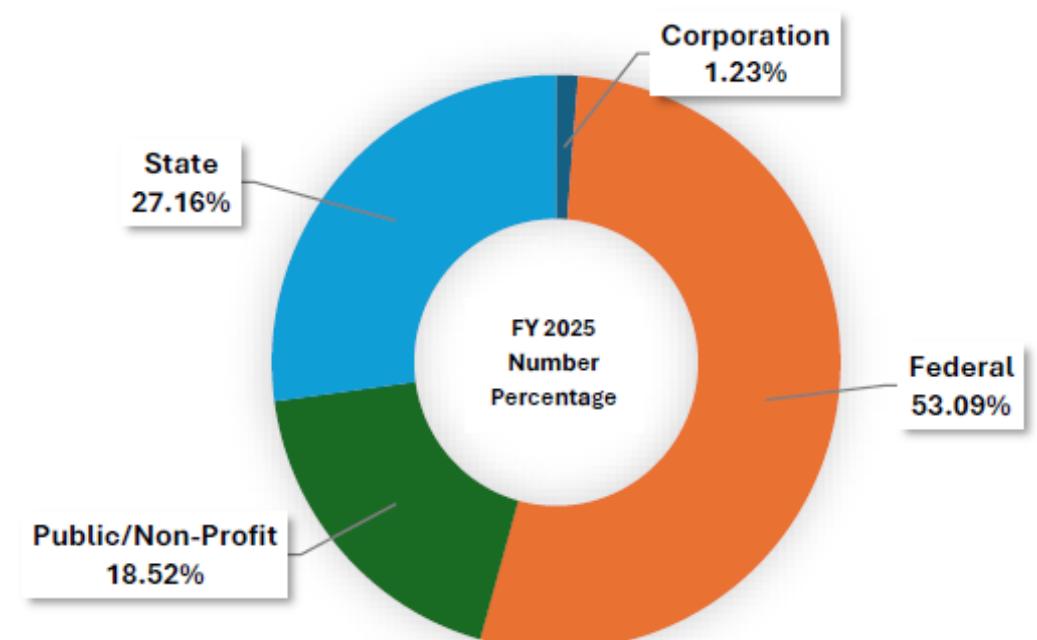
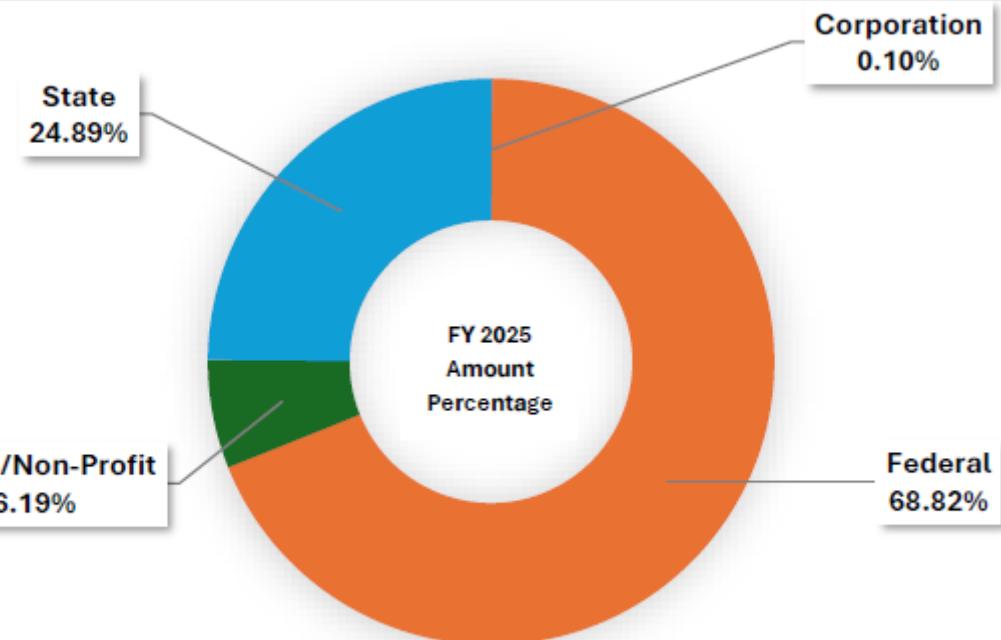


Number of Awards by Purpose

PURPOSE OF FUNDING	FY2024	FY2025
Institutional Support Administrative		2
Academic Support		1
Research	18	27
Student Support	9	3
Training	35	48
Total	62	81

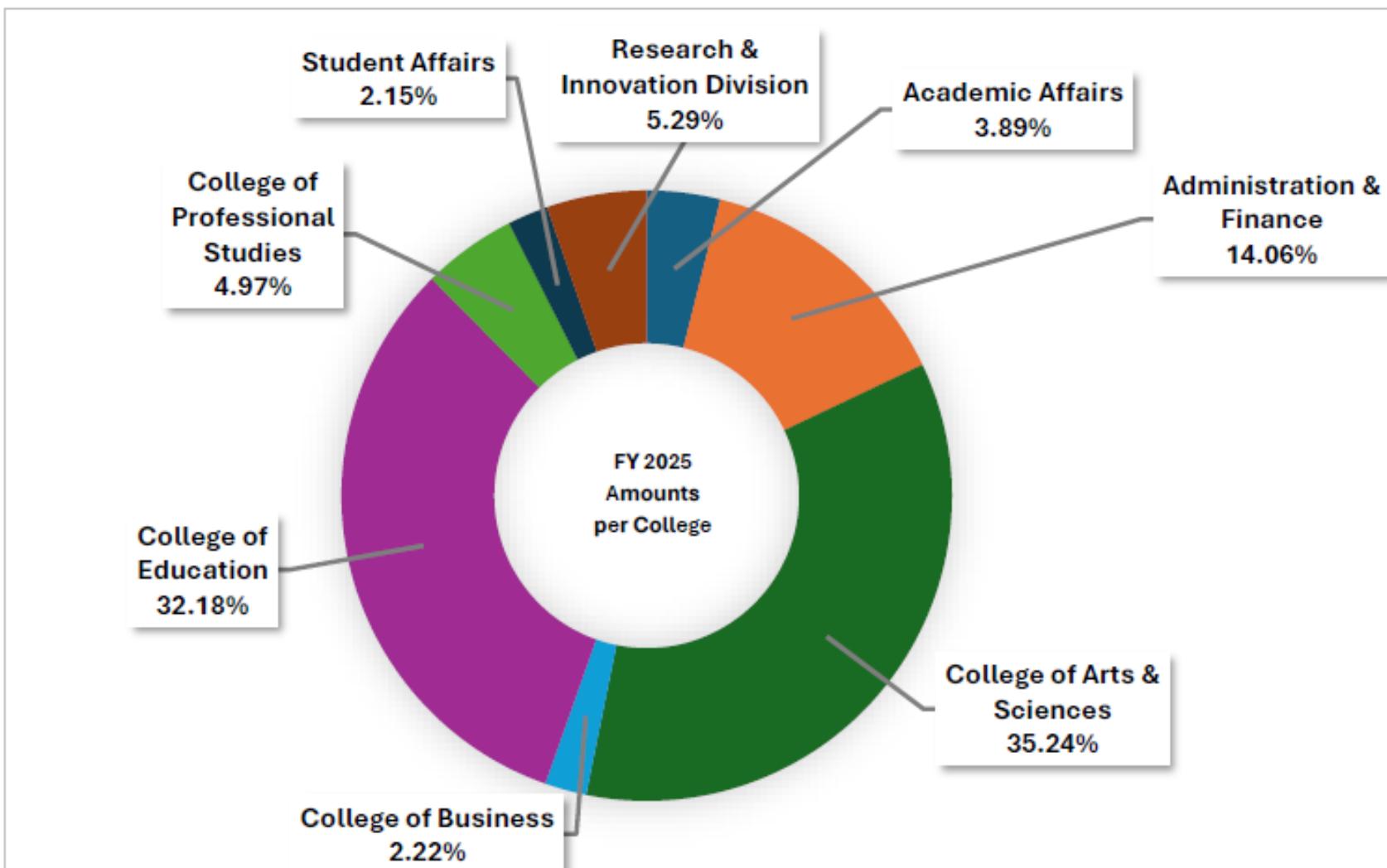


SOURCE OF FUNDING	Amount of Awards	Number of Awards
Federal	\$ 12,486,737.87	43
State	\$ 4,516,079.00	22
Public/Non-Profit	\$ 1,122,562.00	15
Corporate	\$ 17,500.00	1
Grand Total	\$ 18,142,878.87	81



COLLEGE/UNIT	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Academic Affairs	\$ 909,745.00	\$ 301,123.00	\$ 860,234.00	\$ 69,660.00	\$ 706,320.00
Administratiion & Finance	\$ -	\$ -	\$ 100,000.00	\$ 105,000.00	\$ 2,550,000.00
College of Arts & Sciences	\$ 3,497,925.20	\$ 13,206,521.42	\$ 6,212,407.30	\$ 4,774,385.79	\$ 6,393,356.19
College of Business	\$ 522,770.00	\$ 146,211.00	\$ -	\$ 897,616.00	\$ 401,999.00
College of Education	\$ 2,949,772.00	\$ 2,759,158.00	\$ 8,583,447.13	\$ 6,730,748.77	\$ 5,839,111.68
College of Professional Studies	\$ 508,036.00	\$ 336,205.00	\$ 1,868,621.00	\$ 756,622.00	\$ 901,613.00
Research & Innovation Division	\$ 258,450.00	\$ 688,453.00	\$ 1,919,305.31	\$ 2,268,885.04	\$ 959,778.00
Student Affairs	\$ 312,180.00	\$ 197,500.00	\$ 374,722.00	\$ 383,698.00	\$ 390,701.00
Total	\$ 8,958,878.20	\$ 17,635,171.42	\$ 19,918,736.74	\$ 15,986,615.60	\$ 18,142,878.87

Awards by College/Unit



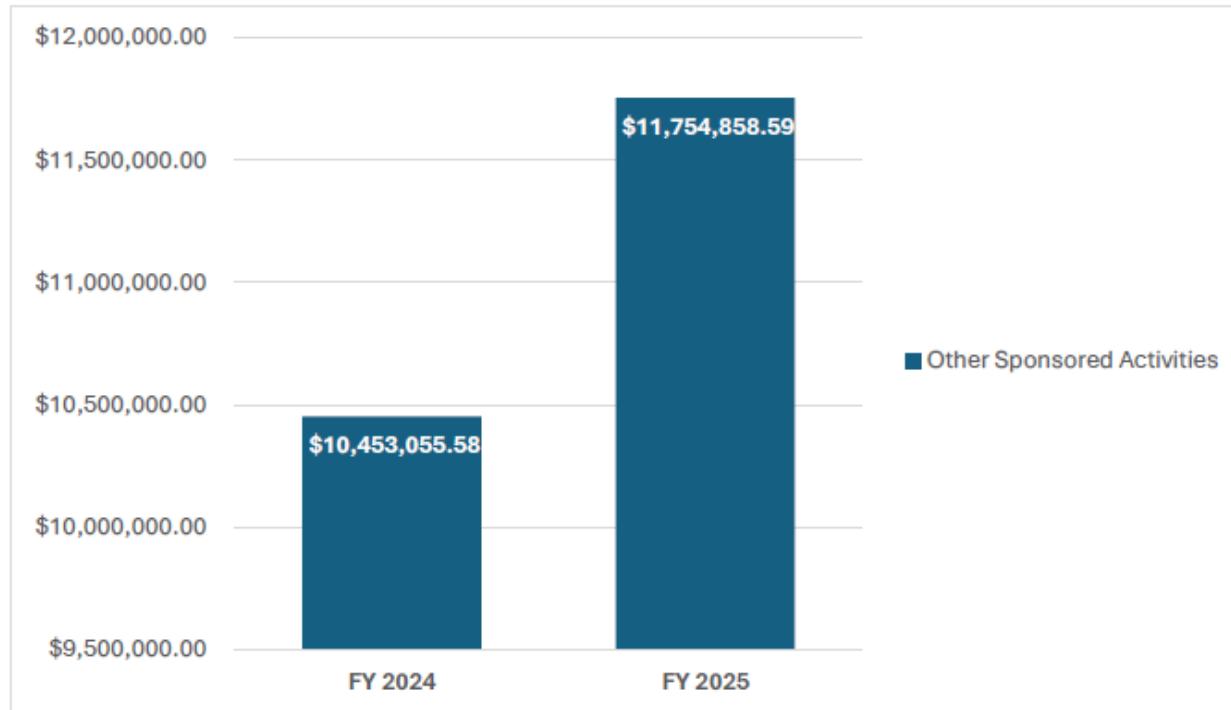
Research Awards by College and Sponsor FY24 & FY25



College Comparison

COLLEGE/UNIT	FY 2024	FY 2025
College of Arts & Sciences	\$ 4,325,848.02	\$ 5,976,021.28
College of Business	\$ 792,616.00	\$ 399,999.00
College of Education	\$ 163,071.00	\$ -
College of Professional Studies	\$ -	\$ 12,000.00
Research & Innovation Division	\$ 252,025.00	\$ -
Grand Total	\$ 5,533,560.02	\$ 6,388,020.28

Other Sponsored Activities Awards FY24 & FY25



Other Sponsored Activities Awards by Sponsor

SPONSOR	FY 2024	FY 2025
Corporation	\$ -	\$ 17,500.00
Federal	\$ 8,663,113.06	\$ 6,460,565.59
Public/Non-Profit	\$ 359,931.00	\$ 860,714.00
State	\$ 1,430,011.52	\$ 4,416,079.00
Grand Total	\$ 10,453,055.58	\$ 11,754,858.59

COLLEGE/UNIT	FY 2024	FY 2025
Academic Affairs	\$ 69,660.00	\$ 706,320.00
Administration & Finance	\$ 105,000.00	\$ 2,550,000.00
College of Arts & Sciences	\$ 448,537.77	\$ 417,334.91
College of Business	\$ 105,000.00	\$ 2,000.00
College of Education	\$ 6,567,677.77	\$ 5,839,111.68
College of Professional Studies	\$ 756,622.00	\$ 889,613.00
Research & Innovation Division	\$ 2,016,860.04	\$ 959,778.00
Student Affairs	\$ 383,698.00	\$ 390,701.00
Grand Total	\$ 10,453,055.58	\$ 11,754,858.59

Moving Toward Becoming an R2

Research Expenditures (FY2021-FY2025)

FY2021	FY2022	FY2023	FY2024	FY2025*
\$1,398,000	\$3,351,000	\$2,612,000	\$3,729,907	\$5,801,955

Summary of Degrees Conferred (FY2021-FY2025)

Level	2021	2022	2023	2024	2025
Undergraduate	882	851	856	757	731
Master's	267	212	191	209	237
Doctorate	16	6	17	10	40
Total	1,165	1,069	1,064	976	1,008

QUESTIONS

THANK YOU!

Salisbury University Innovation Update

Salisbury University

Tech-based Economic Development Initiatives

January 2026



Grants Fueling Growth

A Beginning...

TEDCO MMIP #1
\$45,000

TEDCO MMIP #2
\$45,000

TEDCO MMIP #3
\$45,000

SBA Growth Accelerators
\$50,000

NSF EPIIC: RAISE
\$380,000

TEDCO Equitech Growth Fund
\$249,000

NSF ART
\$3M

\$800k+
Awarded

2022-2024

2024-2025

2025-2026

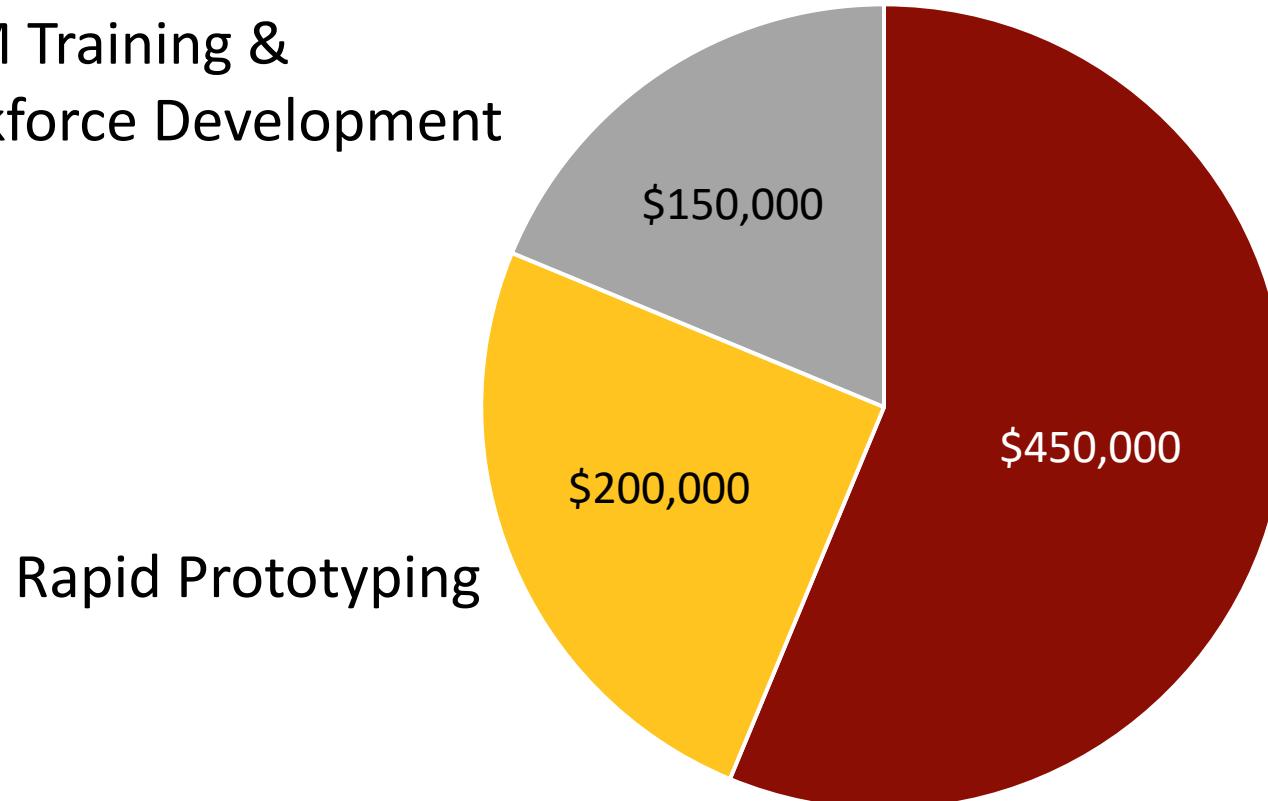
2026-2027

2027-2028

\$800k+ Initial Investments

STEM Training &
Workforce Development

Capacity Building for
Use-Inspired Research



EPIIC AI Project Example: Computer Visioning System for Chick Counting

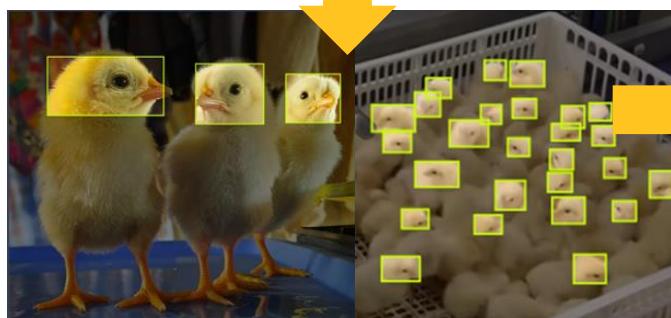
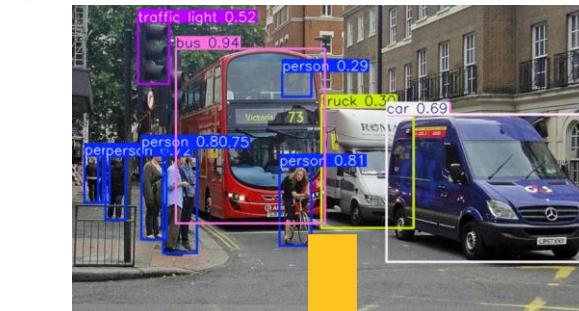
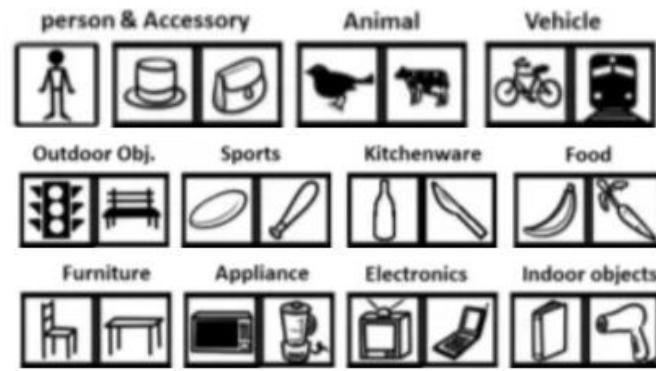
1



Facility Tour & Operational Review

2

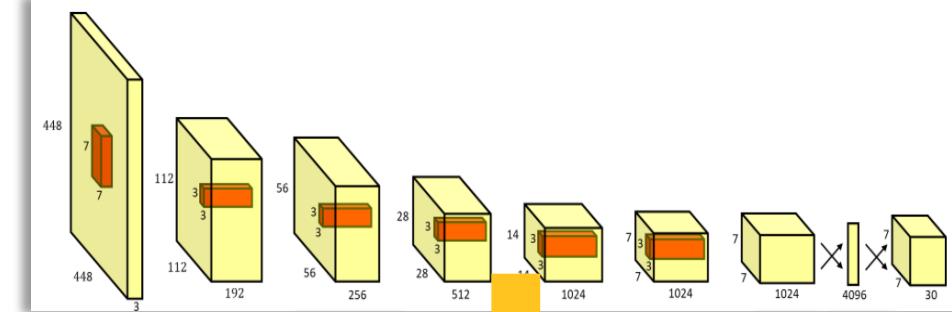
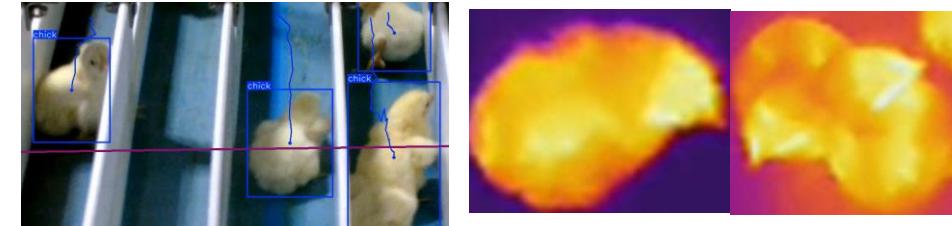
COTS Test:
YOLOv1



70%
Accuracy

3

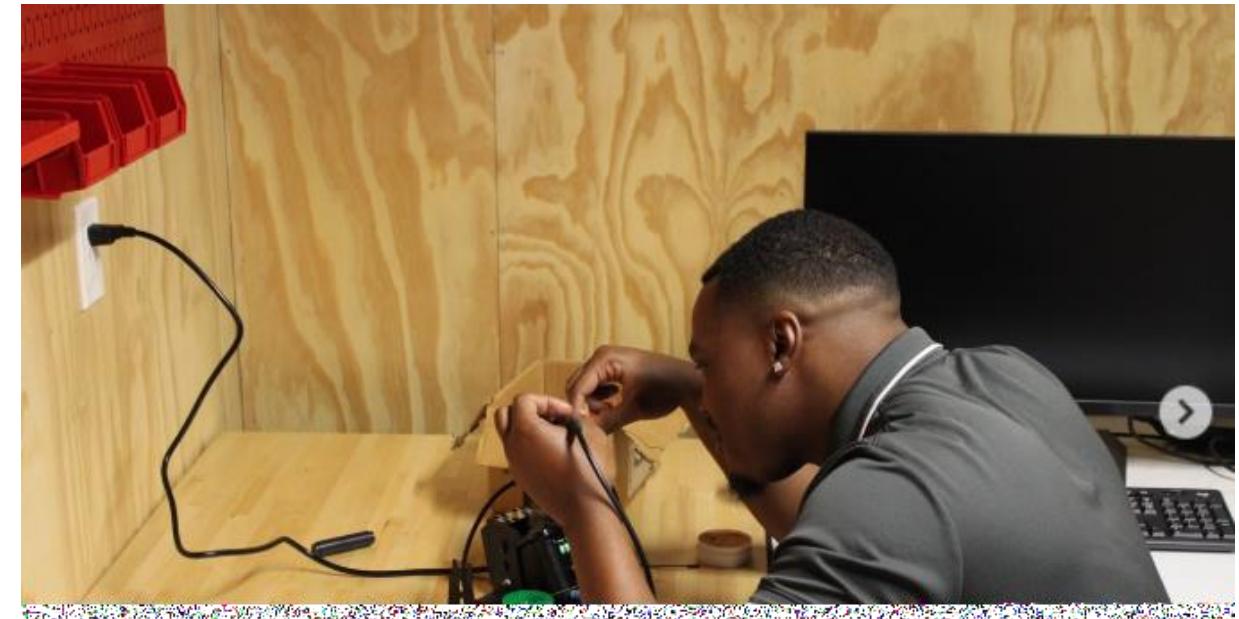
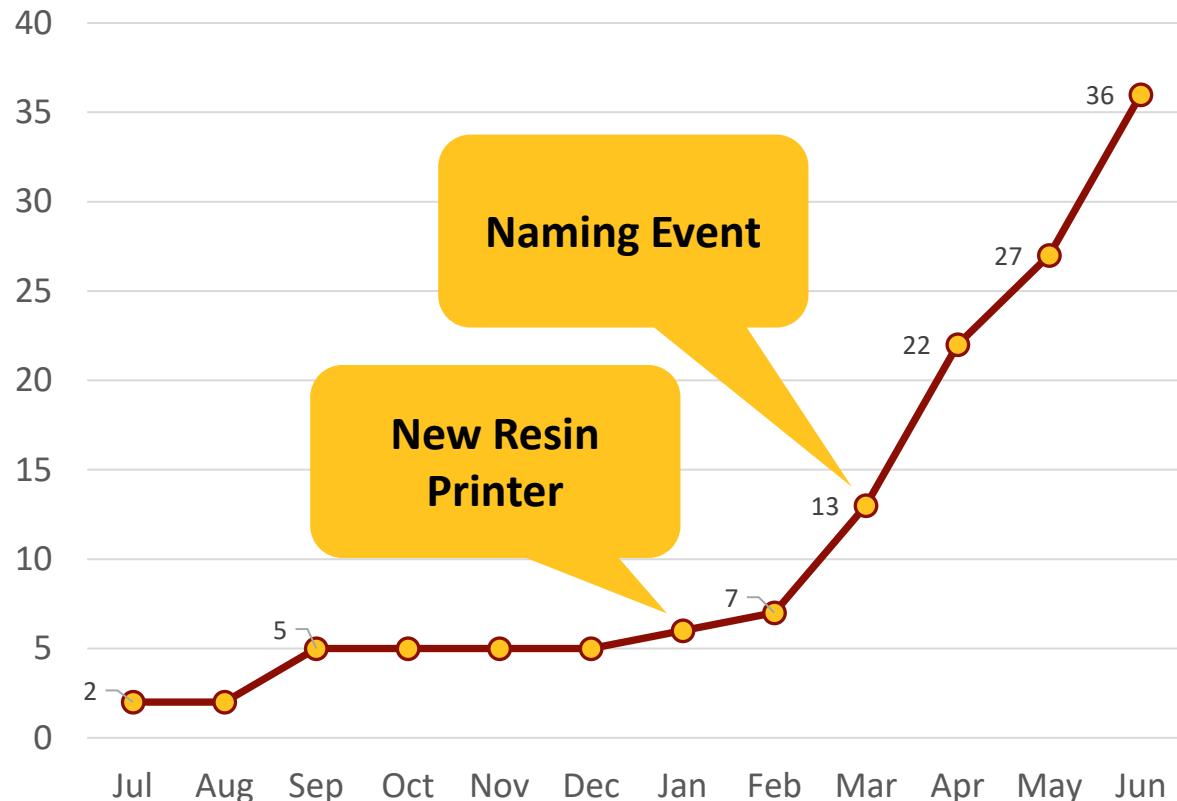
Custom Models & New Techniques



98%
Accuracy

Rapid Prototyping

Cumulative Prototyping Projects, 2024-2025



David White, CEO of Tomorrow's Bio Today, working on his medical device "pill cam" for large animals.

STEM Education & Training

Delmarva Ag-biotech Corridor

Easton Small Scale Biomanufacturing Facility (F3Tech | Easton, MD) w/ MOU for Lab Space

Innovation Readiness

F3Tech – In-person Training on Patents, Tech Development Processes, SBIRs, etc.

STEM Awards

Three Student Entrepreneurship Competitions: 1 High School & 2 Collegiate

Study on biotech industry workforce needs & curriculum

Online **training** for researchers and tech entrepreneurs

STEM Prizes next 2 years



Contact

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www.salisbury.edu/entrepreneurship