NDSU

RESEARCH AND CREATIVE ACTIVITY

STUDENT FOCUSED • LAND GRANT • RESEARCH UNIVERSITY

COLLEEN FITZGERALD, PhD

NDSU Vice President for Research and Creative Activity

NDSU RESEARCH AND CREATIVE ACTIVITY

THANK YOU



TOP 100 Among all U.S. public universities

R1 Doctoral university – "very high research activity"

NDSU

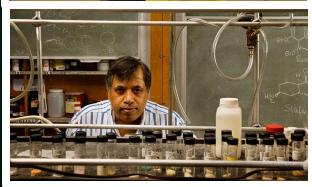
FY23 expenditures \$190.3 million – all time high; 5th straight record

FY24 awards	\$142.5 million	Federal Awards		
		\$ 36.1M	NSF	145%
	all time high	\$ 32.2M	USDA	57%
		\$ 17.1M	DoD	68%
		\$ 8.7M	NIH	15%

RESEARCH AND CREATIVE ACTIVITY



















Why the Funding Matters

- Catalyst for innovation
- Collaborative investments
- Industry partnerships
- Seed programming
- ND higher education collaborations
- Workforce readiness

NDSU

Leverages other resources

NDSU Innovations to Practice Program

Investments focused on the development and expansion of public-private partnerships across NDSU's strategic focus areas



 6 PROJECTS
 13 PROJECTS
 9 PROJECTS
 4 PROJECTS

 \$566K
 \$694K
 \$786K
 \$256K

NDSU

RESEARCH AND CREATIVE ACTIVITY

The University Collaboration Research Program

NDSU and UND invested \$400k to create the UCRP program.

Nine projects are supported (four led by NDSU and five led by UND).

UNDNORTH DAKOTA NDSU NORTH DAKOTA STATE UNIVERSITY NXSCS DICKINSON® STATE UNIVERSITY VALLEY CITY STATE UNIVERSITY SIAIE UNIVERSITY CANKDESKA CIKANA COMMUNITY COLLEGE Lake Region UNITED TRIBES «TECHNICAL COLLEGE



Transparency

NDSU.edu/research/edrf





PARTNERSHIPS

TRANSLATION

WORKFORCE



RESEARCH AND CREATIVE ACTIVITY

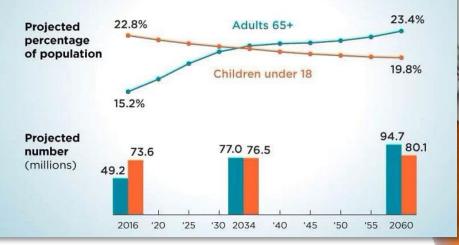
RYAN MCGRATH, PhD

NDSU Associate Professor of Health, Nutrition, and Exercise Sciences



An Aging Nation Projected Number of Children and Older Adults

For the First Time in U.S. History Older Adults Are Projected to Outnumber Children by 2034



Healthy Aging BRITA





NDSU NORTH DAKOTA STATE UNIVERSITY



UND NORTH DAKOTA

NBSCS.

Asozo Health Sciences

ARMSTRONG ABOAH, PhD

NDSU Assistant Professor of Transportation Engineering

NDSU RESEARCH AND CREATIVE ACTIVITY

DEVELOPMENT OF AN IOT-BASED SENSOR FOR ADVANCING SAFETY MONITORING AND INTERVENTION AT WORK ZONE AREAS

PI: Armstrong Aboah, Ph.D. Co-PI: Umamaheswara Rao Tida, Ph.D.

Our Developed Workzone device

Stage 1: Visual Alert

Stage 2: Audio Alert



Impact of EDRF

Work Force Development Supported 9 (7 grad, 2 undergrad) students



Industrial Partnership Partnership with UGPTI and NDDOT



Research Expansion HIGH priority Federal Grant on Workzone Safety to be submitted on 7th March 2025. \$2M max per award

al Motor Carrier Safety Administration

FMCSA