

New Mexico State University (NMSU) System Economic Development Initiatives

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New Mexico State University

College of Agricultural, Consumer, and Environmental Sciences Contribution to Economic & Rural Development: Three Examples

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Associate Dean / Agricultural Experiment Station Director

College of Agricultural, Consumer, and Environmental Sciences
New Mexico State University

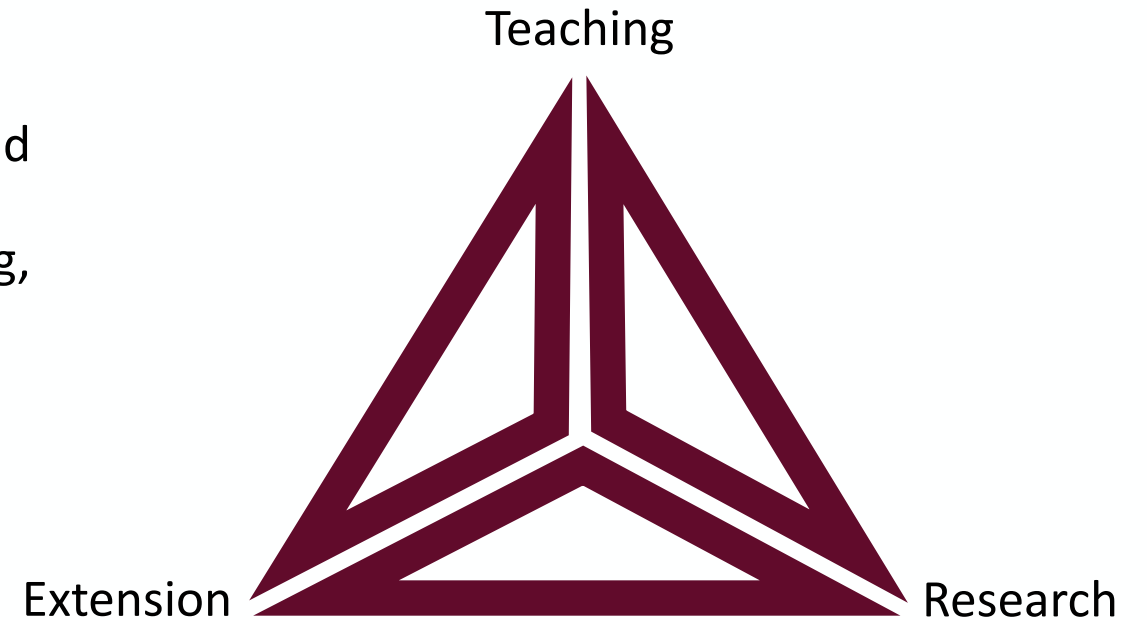
Economic and Rural Development and Policy Committee
September 13, 2024



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Mission

The College of Agricultural, Consumer, and Environmental Sciences is an engine for economic and community development in New Mexico, improving the lives of New Mexicans through research, teaching, and extension.



Industry Training – Meat Processing

- Partnership
 - USDA Rural Development
 - NMSU ACES
 - Arrowhead
 - Private meat processor
- GO Bond facilities driven



Controlled Environment Agriculture

- Partnership
 - Tri-State Generation & Transmission
 - Electric Power Research Institute (EPRI)
 - NMSU Branch Campus
 - Center of Excellence
 - NMSU College of ACES
 - NMSU College of Engineering



Agribusiness Accelerator / Farm Incubator

- Established with the support of Senator Pete Campos
- Focus on San Miguel, Mora, and Guadalupe Counties
- Goals
 - Increase the supply and accessibility of locally produced food.
 - Boost value-added agribusiness activity, and
 - Foster entrepreneurship, business development, and job creation.



Agricultural Research

- Improving Existing Varieties
- Identifying and Evaluating New Varieties
- Identifying and Evaluating New Production Practices
- Identifying and Evaluating Value-Added Production Opportunities



Contact Information



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PSL Overview

Marcella Shelby, DED.

Strategic Initiatives Officer
Physical Science Laboratory
New Mexico State University

Economic and Rural Development and Policy Committee
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Physical Science Laboratory

Unique National Resource and catalyst for robust federal/academic partnerships



Facilities

- 7 acres located on NMSU campus
- Controlled Access/Classified Capability
- Continental US & Overseas work locations
- Production Capability-Mechanical and Electronics Services Center, Antenna Production/Plating
- UAS Flight Test Site at the Las Cruces, NM airport
- Industry Tenants at PSL: Teknicare, Leidos, NMDA, NASS, NM-DFA, NM-PED, NM-SLO

Economic Impact

FY 21-\$16.3 million in expenditures, \$25.7 million of economic impact in the state of New Mexico (Arrowhead, Center for Border Economic Development)

FY 24-\$17.9 million in expenditures

75 years supporting science and technology efforts

Established in 1946 to support V-2 rocket exploitation at White Sands Proving Grounds

Today's Domain Expertise

- Electronic Warfare
- Counter Measures
- Cybersecurity
- Telemetry and Missile Systems
 - Production Capabilities
- Catalog of internally designed and built Telemetry and Antenna Systems
- Aerospace
 - Scientific Ballooning
 - UAS Operations
- **National Security Workforce Programs**



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Strategic Partnerships for Economic Development



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PSL Student Programs

Strengthening the National Security workforce pipeline in partnership with DoD Chief Digital Artificial Intelligence Office



Physical Science Laboratory



"Early Outreach"
(K -12)

"Gateway To Hire"
(College)

*Current
Workforce*



Academic Career Experience
Career Readiness & Student Success
Las Cruces Public Schools



**DEFENSE LEADERSHIP
CERTIFICATE**



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Strengthening The National Security Workforce Pipeline

CREW (Classified Ready Employee Workforce)

Mission: To develop a diverse pool of classified-ready professionals equipped with the technical, professional, and interpersonal skills required for successful careers in support of national security. Our graduates are also prepared to thrive in the digital workplace, ensuring they are adaptable and proficient in the latest technological advancements.

CREW Students have broad academic interests and diverse demographics.

- 56 CREW Graduates (2020-2024, 4 cohorts)
- New cohort will start September 2024: 50 students anticipated
- Most requested majors by employer sponsors: Electrical Engineering, Mechanical Engineering, Aerospace Engineering, Information Technology, Computer Science, Cybersecurity; Electrical Technician
- Other majors participating: Math, Human Resources, Criminal Justice, Education

Student Sponsors/Partners:



GENERAL DYNAMICS

NORTHROP GRUMMAN

BLACK SKY

X-BOW

Sandia National Laboratories

Los Alamos NATIONAL LABORATORY
EST. 1943



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Gateway to Hire Graduates

81 students have completed CREW and DCTCx
2020-2024

NORTHROP GRUMMAN



GENERAL DYNAMICS

LOCKHEED MARTIN

SPACEX



Sandia National Laboratories



Peraton



Raytheon Missile Systems



Physical Science Laboratory



Hill Air Force Base

Honeywell



100% Employed upon graduation

Transitioned from graduation to FULL employment in weeks



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DACC Overview

Mary Ulrich, Ph.D.

Executive Director

Division of Workforce & Community Engagement

Dona Ana Community College

Economic and Rural Development and Policy Committee

September 13, 2024



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Mission of Economic Mobility

DACC's Division of Workforce and Community Engagement is a **gateway** to **economic mobility** for the [new majority learner](#). We provide customized learning experiences to meet the unique needs of our community, learners, and employers.

Economic mobility refers to

- people's ability to improve their economic status over the course of their lifetimes
- access to income, assets, training, and employment
- the ability to make choices for yourself and influence others
- social inclusion¹



Workforce Training & Work-based Learning Programs at Doña Ana Community College

- Goals

- Provide access to short, focused workforce training programs (7-15 weeks)
- Focus on Career Development & Industry-Recognized Credentials
- Clear pathway to in-demand jobs and job sectors
 - Advanced Manufacturing
 - Information Technology
 - Allied Health Careers
 - Infrastructure Industries
 - Business

- Targets

- 340 People Certified, 225 Internships, and 3-week Summer Bridge Program
- New Majority Learners



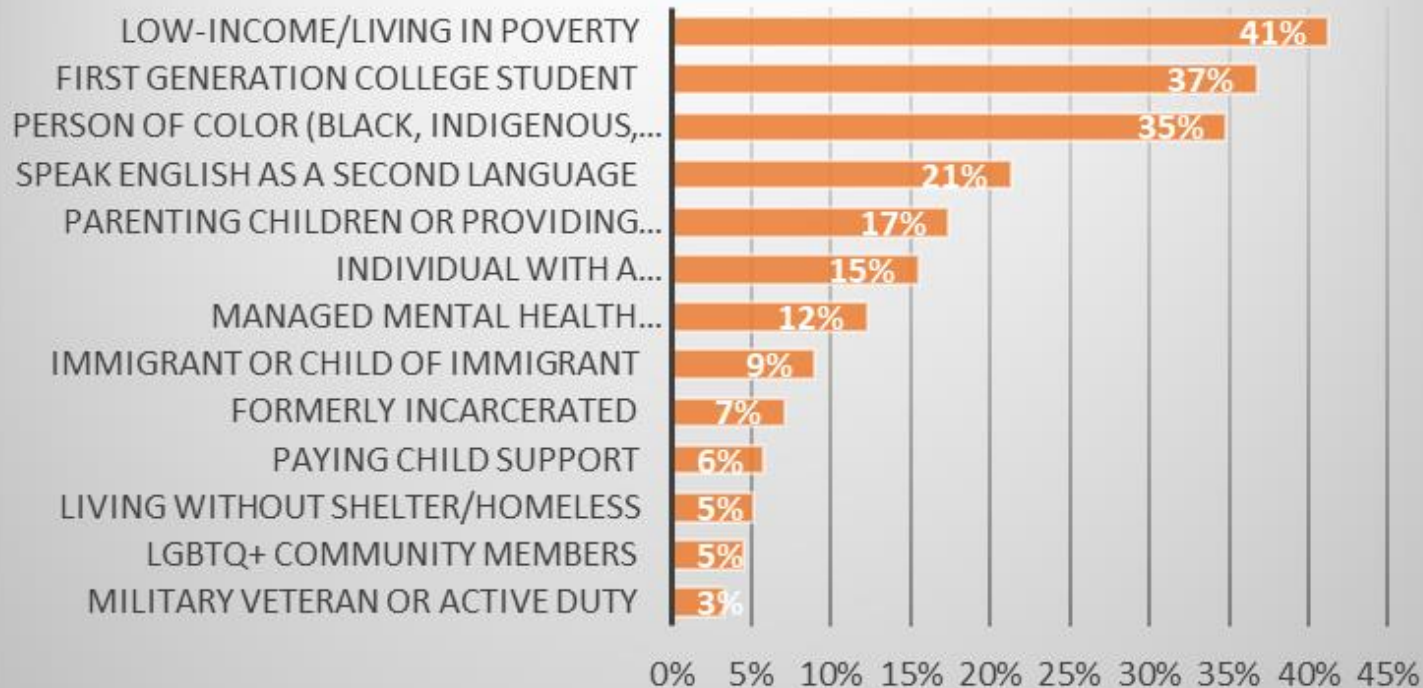
Career Pathway Approach to Training

- Provides access to build skills, earn credentials of value, and to enter and exit over time to increase economic mobility
- Connects progressive levels of education and training to local employment opportunities, in-demand credentials and skills, and supportive services¹
- Well-suited to New Majority Learners
 - Short-term training with multiple entry and exit points
 - Supports basic skills development (computer literacy, numeracy, literacy, and English language)
 - Explicit Career Development
 - Directed by and taught by experts in adult learning theory

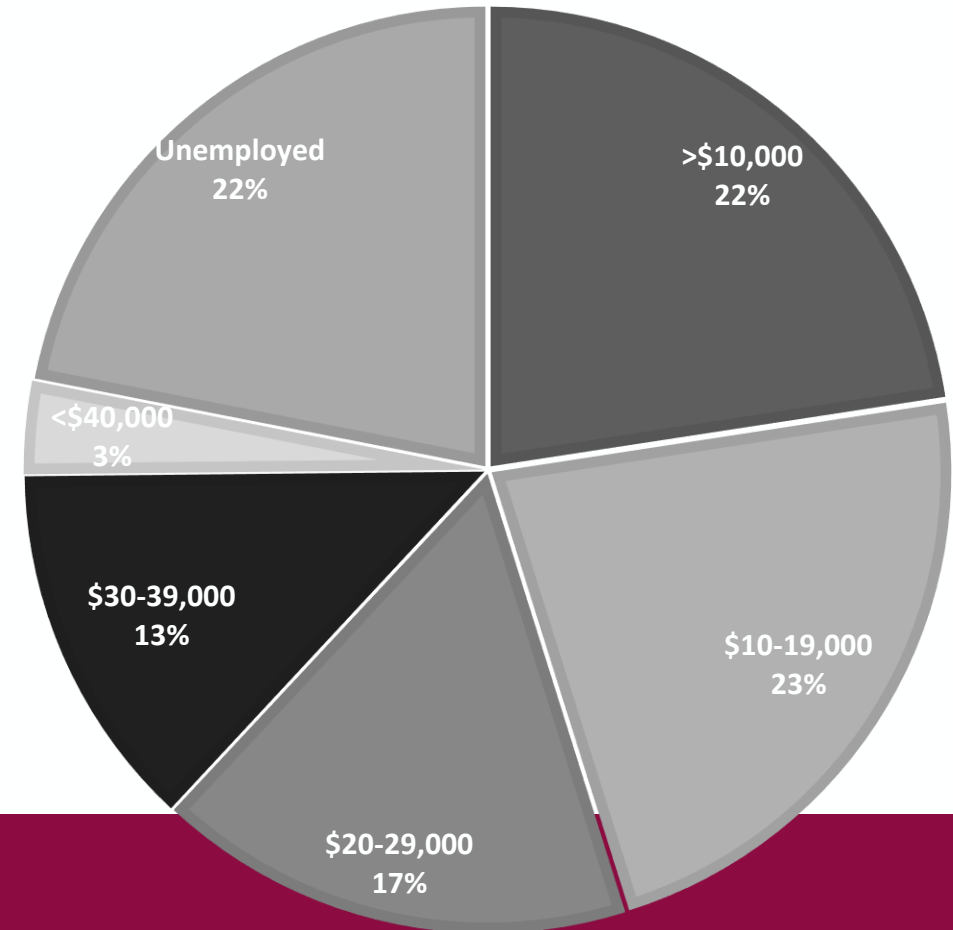
Snapshot of Current Participants

- 155 Applicants (July 16 to Sept 5)
- 102 currently placed in CNA, CDL, Pharm Tech programs

New Majority Learner Identity



CURRENT INCOME LEVEL OF APPLICANTS



Importance of Good Jobs

- Living hourly wages - \$24.50/hr for Doña Ana County
- Benefits
 - Health insurance
 - Elder & child care
 - Retirement Benefits
- Other characteristics
 - Work schedules
 - Workplace safety
 - Opportunities for career development
 - Meaningful engagement, belonging and inclusion



Contact Information

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