


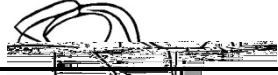
**MIRACOSTA COMMUNITY COLLEGE DISTRICT
BOARD OF TRUSTEES**

**Workshop
3 P.M. – THURSDAY – FEBRUARY 23, 2023
CONFERENCE ROOM 1054 – OCEANSIDE CAMPUS
1 BARNARD DRIVE – OCEANSIDE , CA**

AGENDA

- I. CALL TO ORDER
- II. FLAG SALUTE / ROLL CALL
- III. PUBLIC COMMENT ON ITEMS ON AND NOT ON THE AGENDA

ITEMS ON THE AGENDA: Members of the audience may address the Board of Trustees on any item listed on the agenda when that agenda item comes up for discussion and/or action. Comments will be limited to three (3) minutes per agenda item and a total of fifteen (15) minutes of public comment on any one item, unless waived by the board. Non-

Subject: Bioscience Workforce Development Hub	Attachment: PowerPoint Presentation
Category: Presentations	Type of Board Consideration: <div style="display: flex; justify-content: space-around; align-items: center;"> ✓ Information Consent Action </div>
Institutional Goals: mcc_mission_statement.pdf (miracosta.edu)	Institutional Goal Supported: <div style="display: flex; justify-content: space-around; align-items: center;"> ✓ Goal 1 ✓ Goal 2 ✓ Goal 3 Goal 4 </div>
Recommended:  <hr/> Kristina Denée Pescarmona Assistant Superintendent/ Vice President, Instructional Services	Approved for Consideration:  <hr/> Sunita V. Cooke, Ph.D. Superintendent/President

BACKGROUND

The Life Sciences/Biotechnology sector work began as part of the statewide Strong Workforce program hosted by the Chancellor’s Office. In 2022, MiraCosta College received a seed grant from the Chancellor’s Office to create the BioScience Workforce Development Hub. Hosted by MiraCosta College, the Hub has secured approximately \$6M in grants to develop inclusive training pathways in bioscience.

STATUS

Dean Mike Fino and Executive Director, Terri Quenzer will provide an overview of the work of the Bioscience Workforce Development Hub. The focus will be on how the Hub is supporting MiraCosta students as well as students throughout California.

RECOMMENDATION

For information only.



Bioscience Workforce Development Hub

Advancing Bioscience Education and Training in California

Hosted at MiraCosta College

Mike Finn, EdD

Terri Quenzer, PhD

Keaton Wong, MBA

February 23, 2023



Bioscience Workforce Development Hub

Advancing Bioscience Education and Training in California

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Bioscience Workforce Development Hub Team

- Mike Finn, EdD, Dean of Mathematics, Sciences, and Health
- Terri Quenzer, PhD, Executive Director
- Keaton Wong, MBA, Director
- Josie Sette, MS, Bay Area Sector Area Consultant
- Wendie Johnston, PhD, Greater Los Angeles Area Consultant



Bioscience Workforce Development Hub

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Biotechnology

- Use of cellular or biochemical processes to develop technologies and products
 - Combat disease
 - Reduce environmental footprint
 - Feed the hungry
 - Use less and cleaner energy
 - Safer, cleaner, more efficient industrial manufacturing processes



Bioscience Workforce Development Hub
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Biotechnology Industry

- Medical
 - Therapeutics
 - Pharmaceutical companies
 - Biotechnology companies
 - Medical devices
 - Biotech companies
 - Biotech device mediation
- Agricultural biotechnology
- Fermentation (industrial food, beer, wine)

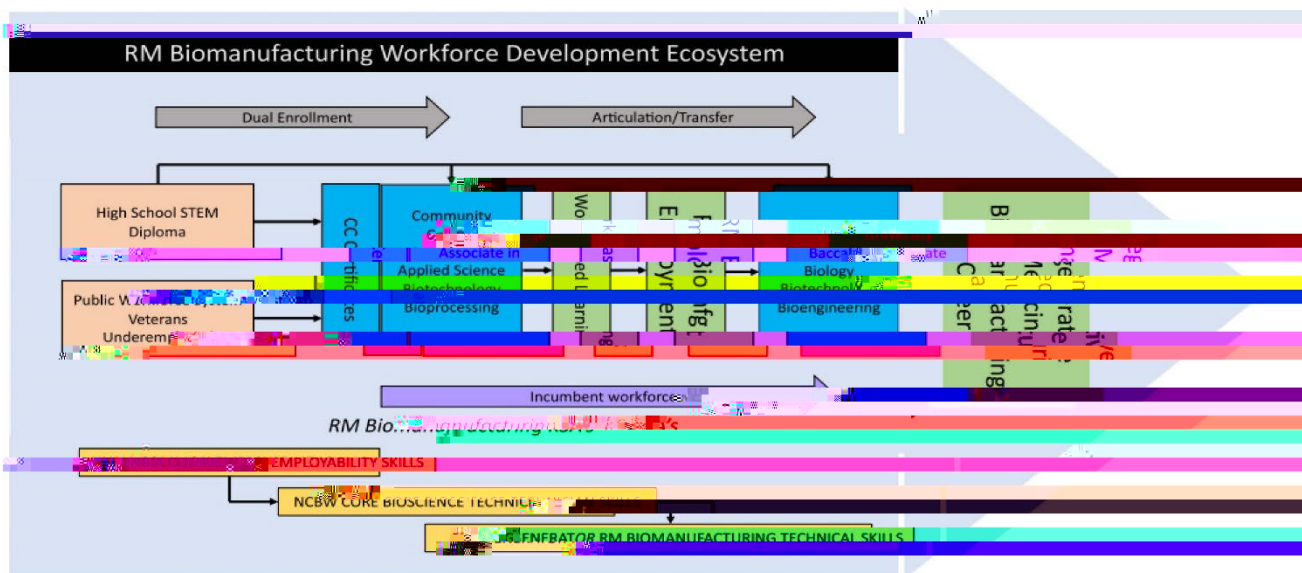


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Life Science/Biotech, Start-up & Regional Initiatives

- Expansion of Biotech/Biomanufacturing programs
- Faculty professional development
- First apprenticeship program in California
- 3rd party creations.
 - Development of the BioTEC industry
 - State adoption of the RACE
- Novel Food Safety compliance apprenticeship
- INNOVATEBIO



A Community College Student's Journey



Bioscience Workforce Development
 Advancing Bioscience Education and Training in California
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Bioscience will receive grant support

- 5 grants awarded (\$4.0M)
- 7 proposals submitted and approved (\$4.1M)
- 3 proposals in preparation for submission (\$2.4M)
- Funding from federal, state, regional, state and local sources

Bioscience Workforce Development
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Quick Peak Program and Future Grants

- NSF ATE: Bioscience Supply Chain Operations Projects for Education (\$650K, 3 yrs)*
- NSF ATE: Assoc. of Biomolecular Research Facilities Consortium Grant (sub-award to MCC, \$100K, 3 yrs)
- CAI Apprenticeship Implementation
 - Food Safety Compliance & Quality Control (\$1.3M, 3 yrs)
 - Regenerative Medicine (\$1.5M, 3 yrs)
- CAI Apprenticeship Planning
 - Clinical Laboratory Science (\$120K, 3 yrs)
 - Medical Laboratory Technology (\$120K, 3 yrs)
- San Diego Foundation Science & Technology (\$750K, 1.5 yrs)
- National Science Foundation
 - Scholarships in STEM (10 STEM disciplines) (\$4M, 5 yrs)
 - Experiential Learning (Experiential Learning) (\$1M, 3 yrs)
 - Building Partnerships to Increase Diversity (BIP) (\$1M, 3 yrs)

*Advanced to funding consideration



Scope of Grant Activities Includes

Grant Activities	Students	Faculty	Industry Partners
Mentorship	✓	✓	✓
Paid Internships, Pre-Apprenticeships, & Apprenticeships	✓		
Supply Chain Biomanufacturing	✓	✓	✓
Food Safety Compliance	✓		
Professional Development		✓	✓
Employer Engagement	✓	✓	✓
Community of Practice	✓	✓	✓
Outreach & Recruitment	✓	✓	✓
Bioscience Pathways Partnership Development	✓	✓	✓
DEIA-Focused	✓	✓	✓



Initiatives and Outcomes

- Work-Based Learning Expansion
- Robust Employment, Training, and Pipeline
- New and Innovative Sector Apprenticeships
- Statewide Expansion (4+1 programs)
- Increased Faculty Support and Professional Development
- Employer Partnerships (Co-op Partnerships, EFT, Training, Retention)
- Internship Pathways for Students with Disabilities
- State Adoption of the Biotechnology Industry-Recognized Credential
- National NSF Biotechnology Education Center (IBTEC) Leadership Committee

