

STATE BOARD OF COMMUNITY COLLEGES
Allocation for BioNetwork Host Colleges
FY 2022-23

Request: The State Board of Community Colleges is requested to approve \$4,124,201 to be allocated to the BioNetwork host colleges from July 1, 2022, through June 30, 2023. This amount represents the operational funds for salaries, equipment, and operating costs for the fiscal year 2022-23.

Strategic Plan Reference:

Theme: Economic and Workforce Impact

Goal: Ensure the educational pipeline prepares a workforce possessing the interest, knowledge, skills, and abilities to meet the needs of employers, now and into the future.

Objective 3.2: Offer relevant, high-quality instructional programs that meet the needs of business and industry for existing and future jobs.

Background: The NC Community College System's (NCCCS) BioNetwork was established in 2004 to support our 58 colleges as they support their local biotechnology and life science business and industry. Originally funded through a Golden LEAF Foundation grant, BioNetwork was funded on a recurring basis by the NC Legislature in fiscal year 2005-06.

The bioscience sector continues to flourish and demonstrate relative immunity to fluctuations in NC's economy. Much of the sustainability and growth of the industry can be credited to the help of BioNetwork. Since the start of 2020, seventy-three (73) life sciences companies have announced plans to either locate or expand their operations in our state, creating nearly 11,200 new jobs and over \$8.39 billion in investment (NC Biotechnology Center Data).

BioNetwork has supported this growth through the provision of industry relevant, hands-on training at the industry-site and in strategically located BioNetwork laboratories, including:

- (1) **Food, Beverage, and Natural Products Lab** facility hosted by Asheville-Buncombe Technical Community College;
- (2) **Biomanufacturing Lab** facility, which includes an aseptic training center, a validation academy, and a microbiology laboratory hosted by Wake Technical Community College (WTCC);
- (3) **Science, Technology, Engineering, and Math (STEM) Engagement and Outreach Services** extends training and education for the bioscience workforce by conducting training and education workshops for students and teachers in K-12 and community colleges and is hosted by Pitt Community College (PCC); and
- (4) **Instructional Design and Development**, hosted by Gaston College, provides development of virtual, interactive learning modules, 3-D simulations of actual industry training scenarios, and videos that support BioNetwork training services and NCCCS college programs.

BioNetwork serves as the bioscience training component of Customized Training, and its services extend to all 58 community colleges.

The recommended allocations will be used to fund personnel, equipment, and operating expenses at the host colleges to ensure the responsive, qualified, and relevant service to North Carolina's growing bioscience workforce needs.

Method of Allocation: The recommended allocations are based on input from the BioNetwork Leadership Team, evaluation of the prior year's metrics, and industry growth projections derived from engagement with workforce development stakeholders. The Vice President of Economic Development, in consultation with the Associate Vice President of Business Engagement and the Executive Director of BioNetwork, reserves the right to recall unused funding for reallocation to other BioNetwork host colleges as needed.

Recommended Host College Budget Allocations:

Asheville-Buncombe Technical Community College: \$928,600

Focus Area: Industry Training - Food, Beverage, and Natural Products

The BioNetwork staff in the Food, Beverage, and Natural Products industry sector provides relevant onsite and industry-site training and education through Customized Training, the Small Business Center Network and Continuing Education. The Natural Products Laboratory has become a national center for natural products innovation where researchers and entrepreneurs can find start-up information, educational programs, support coordination, mentoring, and referrals to launch their enterprise. BioNetwork also operates a Food Laboratory for quality testing of food products.

Gaston College: \$948,443

Focus Area: Instructional Design and Development

The BioNetwork team hosted by Gaston College creates videos; interactive, electronic modules; and virtual learning objects that are utilized by the NC Community Colleges. The virtual media products are created in partnership with companies and consist of 3-D simulations of industrial processes, environments, and equipment; educational modules that incorporate video demonstrations, interactive simulations, and assessment tools; and virtual learning tools. This team is instrumental in the development of the Virtual Career Fairs, working with each of the community colleges and companies throughout the state to connect students with training and career opportunities. In addition, the BioNetwork staff at Gaston College maintains the web presence for BioNetwork.

Pitt Community College: \$741,295

Focus Area: STEM Engagement and Outreach

The activities at Pitt Community College focus on developing and coordinating statewide STEM engagement and outreach activities. Educational engagement includes training community college faculty to understand and incorporate learning tools to advance the knowledge and skills of their

students. This training helps students to successfully enter the biotechnology and life science workforce. In addition, these training activities help K-12 and community college students connect educational pathways to career goals and presenting workshops/seminars helps educators and students understand the benefits and variety of careers in the life science sector.

Wake Technical Community College: \$1,505,863

Focus Area: Industry Training - Biomanufacturing

The BioNetwork Capstone Center, located on NC State University's Centennial Campus as part of the Biomanufacturing Training and Education Center (BTEC), focuses on offering hands-on, short course training in biomanufacturing and pharmaceutical operations to incumbent workers, new hires, and community college students in a simulated cGMP (current Good Manufacturing Practice) facility. The activities of the Capstone Center include providing biomanufacturing training through Customized Training and providing continuing education short courses, workshops, and seminars to industry, educators, and NC Community College students.

Fund Source and Allocation Period: Funding is available from the FY 2022-23 General Fund Appropriation for BioNetwork. Allocations shall be adjusted by any legislative action. The allocation period is July 1, 2022, through June 30, 2023.

Contact Persons:

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