



### Legislative Oversight Commission on Education Accountability September 11, 2023

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### Report to the Legislative Oversight Commission on Education Accountability

Vision 2025: Science & Technology Strategic Plan Annual Report (§18B-18B-2)



### MEMORANDUM

TO:	Legislative Oversight Commission on Education Accountability
FROM:	Dr. Juliana Serafin, Senior Director Division of Science and Research
DATE:	July 1, 2023
RE:	Vision 2025: Science & Technology Strategic Plan Annual Report

West Virginia Code §18B-18B-2 requires the West Virginia Science and Research Council to report to the Legislative Oversight Commission on Education Accountability annually on progress in implementing the state science & technology strategic plan, as well as any updates to the plan. In 2021, a completely revised strategic plan, **Vision 2025: West Virginia Science and Technology Plan**, was created with input from more than 60 stakeholders from industry, higher education, and state government.

The strategic plan was developed with an eye toward attracting federal research funding and new hightech industries to West Virginia. Through the plan, we have an incredible opportunity to attract more external investments over the next five years that will allow new sectors to take root right here at home.

In Fiscal Year (FY) 2023, the plan moved forward significantly with the procurement of a RII Track-1 EPSCoR Research Infrastructure Improvement grant which is funded for \$20 million over the next five years. This grant, which is for the "West Virginia Network for Functional Neuroscience and Transcriptomics" is a strategic fit with the four science and technology platforms identified in the plan: **Life Sciences, Computer and Data Science, Advanced Manufacturing** and **Advanced Energy.** In addition to this funding, a conference award to identify ways to support the applications for and administration of STEM research grants in the state, GRANTED Conference: Increasing STEM Grant Capacity Across West Virginia, for \$99,000, has been awarded by the National Science Foundation.

Funding from the state's Research Challenge Fund continues to support the growth of new research in the four platforms. In FY23, three new Research Challenge Grants began in the areas of 1) Data Driven Autonomous Experiments for Energy Sciences Principles of Machine Learning, 2) Metal-Embedded Carbon-based Catalytic Membranes for Co-production of Ammonia and Ethylene, and 3) Synergistic Conversion of Captured CO<sub>2</sub> and Green H<sub>2</sub> to Value-Added Products for a Decarbonized Economy. These projects will create research that is eligible for federal-agency funding and further the goals of the Science & Technology Plan. The three previous Research Challenge Grants (see attachment), ending 2023, produced a total of \$89 million in follow-on funding.

The Science & Technology Plan has specific goals in five focus areas: **STEM Talent Pipeline**, **Research Enterprise**, **Innovation & Entrepreneurship**, **High-Tech Companies** and **Stakeholder Alignment**. The plan sets Vision, Goals, Actions and Metrics for each focus area. It also analyzes trends that affect technology and workforce in the state and includes a SWOT analysis for the four science and technology platforms. MEMORANDUM July 1, 2023 Page 2

#### Focus Area One: STEM Talent Pipeline

Vision: The vision is for West Virginia students to become interested in high-tech career pathways and actively pursue STEM degrees. Ultimately, companies will locate in West Virginia because of the availability of STEM talent in the state.

The goals are to increase two- and four-year STEM degree enrollment and degree conferral, and to increase research opportunities and internships for students with the support of federal grants and the state-funded Research Challenge Fund.

Actions include expanding K-12 STEM opportunities, partnering with organizations in the state to help prepare and retain STEM students, and partnering with companies and federal labs to increase the number of available internships.

### FY 23 Results and Recommendations for Focus Area One:

The successful RII Track-1 EPSCoR grant awarded in May 2023, and extending through 2028, will have a significant impact on the STEM pipeline by creating a STEM internship portal for college students, implementing an extensive program in data science and neuroscience for K-12 students and teachers, and partnering with CodeWV <u>https://codewv.wvu.edu/</u> on K-12 computer science instruction.

A partnership between the STaR Division and the Division of Student Affairs led to co-sponsorship of an event for over 1,000 middle school students participating in the federal Department of Education's GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs) program in 11 counties. The event included a popular STEM speaker and a career fair for students.

The state's NSF INCLUDES Eddie Bernice Johnson First2 Success Network award has been extended a sixth year through August 2023. The First2 program helps retain first-generation college and other underrepresented groups in STEM majors during the first two years of college. West Virginia University, Marshall University, Glenville State University, University of Charleston, Fairmont State University, BlueRidge Community and Technical College, and WVU Institute of Technology are all partner institutions in this program.

### Focus Area Two: Research Enterprise

Vision: The vision for the research enterprise is that West Virginia will be recognized for its academic research in the four target platforms (Life Sciences, Computer and Data Science, Advanced Manufacturing and Advanced Energy), and that industry will seek technical expertise and collaborations with academic researchers.

Goals are to increase the number of STEM doctoral degrees conferred at West Virginia's universities, and to increase research expenditures in the four target platforms. Actions include increasing funding for the Research Challenge Fund, securing federal research capacity-building grants, increasing federal grants and contracts in the four target platforms, and identifying critical lab and facility needs and assessing funding mechanisms to fulfill those needs.

### FY 23 Results and Recommendations for Focus Area Two:

The Research Challenge Fund continues to fund STEM doctoral students at WVU and Marshall through the STEM Fellows program. This award was renewed in 2021 and will be in place from 2022 to 2026.

We expect that the new NSF EPSCoR RII Track-1 grant in Neuroscience will significantly assist research growth at the higher education institutions in the state.

The National Science Foundation (NSF) has identified the critical need for support of STEM research grant proposal preparation process and post award administration for grants. The STaR office applied for and will receive a conference grant to visit regions of the state and assess the barriers to grant application and administration, as well as collect input on barriers at a state conference in 2024.

### Focus Area Three: Innovation and Entrepreneurship

Vision: The vision for Focus Area Three is for successful startups in West Virginia to attract more Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) funding and venture capital to increase operations.

Goals include increasing industry-university research and development activity, including patents and invention disclosures, and SBIR/STTR awards. Actions include piloting an R&D voucher program, supporting the FAST program (Federal and State Technology Partnership Program to help West Virginia companies apply for SBIR/STTR funding and providing the SBIR/STTR match) and increasing the Entrepreneurship and Innovation Investment Fund. This Department of Economic Development-managed Fund supports entrepreneurship, creation of business startups, improvements in workforce participation, and attracting individuals to relocate to West Virginia.

### FY 23 Results and Recommendations for Focus Area Three:

In 2021 and 2022, the following SBIR/STTR awards were made with assistance from TechConnect WV's FAST project and the state Entrepreneurship and Innovation Investment Fund (EIIF):

- 7 received Phase I matching awards in 2021, and 4 in 2022.
- 2 received Phase II matching awards in 2021, and 4 in 2022.

The number of companies participating could be increased by adding more state matching funding in the EIIF and the creation of a R&D Voucher program, which are recommendations made in Vision 2025, that have not been implemented.

### Focus Area Four: High-Tech Companies

Vision: The vision is to make West Virginia home to high-tech companies and industries and to grow business R&D and innovation activities.

Goals include attracting R&D-oriented federal operations; ensuring that infrastructure, facilities, and specialized equipment are available to high-tech companies; and working with the West Virginia Department of Economic Development (DED) on recruitment of high-tech companies. Actions include supporting programs to move federal anchors to the state, leveraging R&D vouchers, and collaborating

MEMORANDUM July 1, 2023 Page 4

for high-tech company recruitment.

### FY 23 Results and Recommendations for Focus Area Four:

The WV Regional Technology Park (WVRTP), the I-17 High Technology Park, and the Department of Economic Development continue to actively participate in *Opportunity Move*, the collaborative effort to relocate federal agencies to West Virginia.

NOAA's Science on a Sphere project at the WV Regional Technology Park opened in 2022, bringing innovative STEM-based education tools to middle and high school students, as well as the community.

It is hoped that the newly funding NSF Track-1 grant in neuroscience will attract new industries to West Virginia in the next 5-10 years.

### Focus Area Five: Stakeholders

Vision: The vision is industry-academic-government stakeholders agree on the importance of science and technology in the state economy and collaborate on plan goals and actions.

Goals include establishing strong communications between stakeholders and working together to overcome challenges. Actions include conducting meetings for industry, academics, legislators, and executive branch stakeholders that identify two to three collaborative projects each year and reporting on the outcomes of the plan.

### FY 23 Results and Recommendations for Focus Area Five:

New federal funding opportunities, including the Building a Better America guide to the Bipartisan Infrastructure Law and the creation of the NSF's Regional Innovations Engine program (NSF's Engines) have brought the state's key stakeholders in research and economic development together over the past year for multiple meetings to discuss funding opportunities. Concept papers for the NSF Engines program were submitted June 30, 2022, and the Community and Technical College System will partner with one of the Type 2 awards given to the Kentucky Science & Technology Corporation on Additive Manufacturing Forward Engine (AMFE).

### Conclusion

The revised **Vision 2025** presents an opportunity for significant development of science and technology in West Virginia. The Division of Science and Research announced the plan in July 2021, and significant progress has been made in the areas of research funding. A full copy of **Vision 2025** may be accessed here: <u>https://westvirginiaresearch.org/vision-2025-west-virginia-science-technology-plan</u>

#### Attachments:

- 1) Research Challenge Grants 2017-2023
- 2) Announcement of new Research Challenge Grants for 2023-2027
- 3) Announcement of new EPSCoR RII Track-1 Neuroscience Grant

# **RESEARCH CHALLENGE GRANTS**

How state funding encourages job creation and private investment

### **Research Challenge Grants offer return on investment**

### \$17.3 million

**Localized Gas Utilization** External follow-on funding after initial award of \$1.3 million over five years

### \$33.1 million

**Center for Cognitive Computing** External follow-on funding after initial award of \$1.3 million over five years

### \$38.6 million

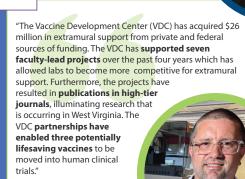
Vaccine Development Center

External follow-on funding after initial award of \$1.3 million over five years

#### Jianli (John) Hu, Ph.D. Research Challenge Grant recipient Localized Gas Utilization

"The RCG integrates collaborations wherein science & engineering faculty can engage with law, finance and geology to come up with innovative solutions to energy and

environmental issues in West Virginia. The project has generated specific impacts on the advancement and realization of smart goals in The West Virginia Science and Technology Strategic Plan. The research activities result in a continuing stream of intellectual properties, federal grants and industrial investment to sustain the scientific advancements in energy research. With the help of the RCG, an interdisciplinary team has trained 25 PhD/MS students, 10 BS students and 4 postdocs.



Heath Damron, Ph.D. Research Challenge Grant recipient, Vaccine Development Center allowed me to extend WVU research activities on several critical national security topics as well as collaborating with state commercial and industrial companies. I have been able to advance state-of-the-art machine learning on biometrics and face recognition for national security. Due to this RCG, my research group secured two large grants and received two consecutive year supplemental grants. The RCG

"The RCG grant has

grant has also helped me collaborate on several projects with small businesses."

> Nasser Nasrabadi, Ph.D. Research Challenge Grant recipient, Center for Cognitive Computing



**Research Challenge Grants (RCGs)** are awarded every five years. RCGs support the creation of universitybased research centers that can foster economic development and workforce advancement in alignment with the goals listed in the state Science & Technology Plan (S&T Plan). All three current projects were awarded \$1.3 million over five years. They have made excellent use of state funding by leveraging the initial investment into further funding from federal sources, supporting scores of graduate students and postdoctoral fellows, and producing hundreds of publications on important research. Increased funding of the Research Challenge Fund would be used for additional RCGs that have been very successful at garnering follow-on funding.

# GROW

Grow research programs at institutions to help secure federal funding that will spur economic development

# DEVELOP

Develop STEM talent pipeline to increase the STEM-ready workforce in West Virginia

# RETAIN

Keep expertise in the state with competitive programs that provide quality experiences to attract and retain students

# How further investment in the Research Challenge Fund would *positively impact* West Virginia

### SUMMER UNDERGRADUATE RESEARCH EXPERIENCES

The Summer Undergraduate Research Experiences (SURE) program provides stipends to **fully or partially support research for 100 undergraduate students annually**. Marshall University, Shepherd University, West Liberty University, West Virginia University, West Virginia State University, and West Virginia Wesleyan College host these students. The sum of six awards is \$300,000 per year, for three years from 2020-2022.

### **INSTRUMENTATION & INNOVATION GRANTS**

Instrumentation Grants provide \$20,000 to purchase **modern instruments for advanced undergraduate laboratories**. Innovation Grants provide one-time awards of about \$40,000 each for **equipment**, **supplies and minor renovations of laboratory spaces for undergraduate education and research**.

### **STEM FELLOWS**

STEM Fellows offers **funding for doctoral (Ph.D.) students studying science, technology, engineering and mathematics (STEM)** at Marshall University (MU) and West Virginia University (WVU). This grant provides **significant support** to both schools for their research programs and **helps maintain their respective research classifications**. The total for five years will be \$800,000 to MU and \$1,675,000 to WVU.

### **OPPORTUNITY FUND**

The Opportunity Fund provides **small, one-time awards** less than \$5,000 each to assist faculty and STEM programs with expenses related to development of proposals for federal funding, and for summer student programs. Total funding per year is \$40,000.

An external, expert peer review service is provided for STEM faculty. This allows them to develop competitive proposals for funding from federal agencies. Last year, 32 faculty proposals were reviewed, 1 large scale proposal to the National Science Foundation (NSF) was reviewed multiple times, and 50 proposals were reviewed for 9 competitions for about \$150,000. Administration and cost share to NSF EPSCoR RII grant was also provided at \$255,000.

Learn more at **wvresearch.org** or call us at **304.558.4128** 





### For immediate release: February 10, 2023

**Contact:** Angela Sundstrom STaR Division: Science, Technology & Research West Virginia Higher Education Policy Commission 304-558-4128 angela.sundstrom@wvresearch.org

NEWS RELEASE

# Faculty awarded over \$3.9 million for the creation of university-based research centers in West Virginia

CHARLESTON, W.Va. – Over \$3.9 million in state funding will foster economic development and workforce advancement by supporting the creation of university-based research centers in West Virginia.

STaR Division: Science, Technology & Research (STaR) at the West Virginia Higher Education Policy Commission awarded three Research Challenge Grants (RCGs) worth approximately \$1.3 million each to directly support research conducted by students and faculty at West Virginia higher education institutions. Research teams are comprised of faculty from Bluefield State University, Concord University, Marshall University, West Virginia University and West Virginia State University. The awards were announced on Friday, February 10 at the Culture Center on the West Virginia State Capitol complex.

"We are excited to be able to fund these three excellent research projects with Research Challenge Grants for 2023-27 cycle," said **Dr. Juliana Serafin, senior director of STaR**. "We look forward to the growth in research enterprise and economic development that will result from this investment by the state of West Virginia."

Research Challenge Grants are supported by the Research Challenge Fund, established by the West Virginia Legislature in 2004 to build research capacity and competitiveness at the state's colleges and universities. The fund is managed by STaR.

"These awards give researchers, especially students, the opportunity to collaborate with those at other institutions in the state and develop partnerships that will make their funding proposals more competitive," Serafin said.

The RCGs promote statewide research collaboration among higher education institutions, an important factor when competing for federal funding, particularly from the National Science Foundation. Broadening the participation of first-generation college students and other underrepresented groups is also crucial.

"We are thrilled today to be able to present new state-funded research grants to faculty representing several of our universities that will create new opportunities for our students to collaborate with each other, with those at other universities and with outstanding faculty who are

pushing them toward trailblazing discoveries," said **Dr. Sarah Armstrong Tucker, West Virginia's Chancellor of Higher Education.** 

Past Research Challenge Grant winners emphasized how the state-funded grants provided clout when seeking further support with federal agencies and industry donors. Awardees from the 2017-2022 cycle transformed their initial \$1.3 million investments into more than \$59 million in combined follow-on funding to continue their research projects.

### Research Challenge Grant Awards

**Drs. Xin Li, V'yacheslav Akkerman, Lian Li, Wenyuan Li, Bin Liu** and **Aldo Romero** of West Virginia University and **Drs. Xiaojuan (Judy) Fan** and **Huong Nguyen** of Marshall University were awarded \$1,315,000 over five years for "Data Driven Autonomous Experiments for Energy Sciences Principles of Machine Learning."

"The new Research Challenge Grant project connects artificial intelligence (AI) researchers with energy science researchers to explore the emerging frontiers of ML-based autonomous experiments for material discovery and energy systems," said Xin Li, project principal investigator. "It will provide an excellent opportunity for STEM students to engage with cuttingedge research that can impact our state's future."

The team plans to work on expanding convergence research at the intersection of artificial intelligence/machine learning and energy sciences by developing a class of novel physics-informed surrogate models.

**Drs. Oishi Sanyal, Madelyn Ball, Jianli (John) Hu, Yuhe Tian, and Carrie White** of West Virginia University; **Drs. Rosalynn Quiñones-Fernández** and **Roozbeh (Ross) Salary** of Marshall University; **Dr. Tesfaye Belay** of Bluefield State University; and **Dr. Rodney Tigaa** of Concord University were awarded \$1,300,000 over five years for "Metal-Embedded Carbonbased Catalytic Membranes for Co-production of Ammonia and Ethylene."

"Receiving the Research Challenge Grant allows our team to pursue a high-risk but impactful research direction and obtain preliminary data prior to applying for external federal grants," said Sanyal, project principal investigator. "Along with research, this grant involves a strong education component which will be used to train the next generation of STEM workforce across four West Virginia-based institutions. Funds like these are critical to support students from all backgrounds, including underserved and underrepresented communities, and train them in cutting-edge technologies. The state of West Virginia will clearly benefit from such a trained workforce as they will contribute to research, entrepreneurship and future manufacturing."

The team plans to develop a novel dual-layered catalytic hollow fiber membrane for coproduction of ethylene and ammonia from natural gas in microwave-enhanced reactions.

Drs. Cosmin Dumitrescu, V'yacheslav Akkerman, Omid Askari, Jianli (John) Hu, Bingyun Li, Earl Scime and Xueyan Song of West Virginia University; Dr. Rodney Tigaa of Concord University; and Dr. Eyas Mahmoud of West Virginia State University were awarded \$1,300,000

over five years for "Synergistic Conversion of Captured C02 and Green H2 to Value-Added Products for a Decarbonized Economy."

"The project objective is to develop process-intensified modular technologies that will convert captured carbon dioxide and green hydrogen to green ethylene and green ammonia," said Dumitrescu, project principal investigator. "The production of green ethylene is an opportunity to revive West Virginia's polymer industry, while green ammonia is an efficient, decarbonized and low emissions alternative to electrification for hard-to-electrify industries."

The team plans to advance current science and technologies to promote local utilization of captured carbon dioxide and the production of green hydrogen in West Virginia residential, commercial, and industrial sectors.

"With the help of the Research Challenge Grant funding, the project will create an interdisciplinary STEM team dedicated to supporting underrepresented communities and the necessary infrastructure to grow project activities into a vibrant, self-sustaining research and development nucleus," Dumitrescu said.

Follow STaR Division: Science, Technology & Research on <u>Facebook</u>, <u>Twitter</u>, <u>Instagram</u>, and <u>YouTube</u>.

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### For immediate release: May 8, 2023

**Contact:** Angela Sundstrom STaR Division: Science, Technology & Research West Virginia Higher Education Policy Commission 304-558-4128 x5 angela.sundstrom@wvresearch.org

NEWS RELEASE

## West Virginia awarded \$20 million in scientific research funding from National Science Foundation

West Virginia has received more than \$105 million in EPSCoR funding and co-funding since 2001

CHARLESTON, W.Va. – West Virginia has been awarded a highly competitive, five-year \$20 million grant from the National Science Foundation's (NSF) Established Program to Stimulate Competitive Research (EPSCoR) that will boost academic scientific research and upgrade infrastructure at West Virginia University (WVU), Marshall University (MU), West Virginia State University (WVSU) and Shepherd University. EPSCoR is facilitated by the West Virginia Higher Education Policy Commission's Division of Science, Technology & Research (STaR).

This funding establishes the WV Network for Functional Neuroscience and Transcriptomics (WV-NFNT), a statewide collaboration of neuroscientists and bioinformaticists working to position West Virginia as a center for impactful neuroscience research.

"I'm thrilled to see that West Virginia has been awarded such important funding, and it's further proof that we're leading the way in education, innovation, science, and technology," **Gov. Jim Justice said**. "This will provide a significant boost to the research programs at our state's leading universities and is a testament to the hard work and dedication of the West Virginia Higher Education Policy Commission. We look forward to the positive impact this grant will have on our state's academic and scientific community and economy."

"West Virginia's universities continue to make our state and country proud with innovative scientific research projects, and I'm thrilled the National Science Foundation is investing \$20 million over five years to establish the West Virginia Network for Functional Neuroscience and Transcriptomics (WV-NFNT)," **said U.S. Senator Joe Manchin.** "I was proud to support this historic investment, which will allow our hardworking students, faculty and staff to continue to make groundbreaking strides in neuroscience and related research. This shows that given the right tools, West Virginia's researchers can compete with anyone in the country. I look forward to seeing the positive impacts of this funding for decades to come and, as a member of the Senate Appropriations Committee, I will continue advocating for resources to boost scientific research opportunities across the Mountain State."

"West Virginia has been a leader in neuroscience capabilities and research for years, and it's

important that our higher education institutions have the resources and tools they need to continue that leadership into the future, especially when they are able to collaborate as they are in this effort. I have been a steadfast supporter of ESPCoR programs, as they give our students and professionals unprecedented opportunities to advance scientific progress right here in West Virginia. I will continue to advocate on behalf of our institutions in West Virginia, and work to provide the resources they need to develop innovative solutions that impact our state, country, and world," **U.S. Senator Shelley Moore Capito said**.

Project leadership includes:

- *Principal Investigator:* Dr. Juliana Serafin, senior director of science and research at the West Virginia Higher Education Policy Commission
- Co-Principal Investigator: Dr. Suzanne Strait, associate director of science and research at the West Virginia Higher Education Policy Commission
- Co-Principal Investigator: Dr. Randy Nelson, chair and professor of the WVU
   Department of Neuroscience at West Virginia University
- Co-Principal Investigator: Dr. Nadja Spitzer, associate professor of biological sciences at Marshall University
- Co-Principal Investigator. Dr. Umesh Reddy, professor of genetics and genomics at West Virginia State University

"Neuroscience researchers and STEM education leaders in West Virginia are honored by NSF's selection of the WV-NFNT project for funding," said **Dr. Serafin**. "We are looking forward to significant growth in neuroscience and related STEM fields during the grant period."

West Virginia has now received more than \$105 million from NSF EPSCoR as funding or cofunding over the past 22 years, according to Dr. Sarah Armstrong Tucker, West Virginia's Chancellor of Higher Education.

"Together with our research and university partners, West Virginia has made great progress in positioning our state as a leader in scientific research," said **Chancellor Tucker**. "We are tremendously grateful to the NSF and to Senators Manchin and Capito for their support, and for their continuing faith in West Virginia's faculty and student researchers. With this funding, we have the opportunity to take neuroscience and related research to new levels of discovery – which could impact real lives and our economic future in tremendous ways."

"For the United States to remain the global leader in science, engineering and technology, we must energize talent in every region and every state in our nation. Through EPSCoR, NSF catalyzes the development of research capabilities across the country, creating sustainable scientific infrastructure and communities of innovation," said **NSF Director Sethuraman Panchanathan**. "This year's EPSCoR awards will serve individual states and the country as a whole with critical research on wildfire management, climate change resilience, biomanufacturing and advanced biomedical devices, and data science in the service of all disciplines."

### Project Background

Neuroscience and data science were identified as areas of existing strength with high potential for growth in the <u>West Virginia Science & Technology Plan</u>, published in 2021. The WV-NFNT will foster collaborations among neuroscientists and bioinformaticists from the four universities while positioning the state as a center for one of the most impactful neuroscience research areas – circuit and synaptic plasticity, the study of changes in neurons and the

connections between them as the result of developmental or environmental changes. The WV-NFNT will expand the capability and diversity of those working in the fields of neuroscience and data science by implementing specific education and workforce development activities to engage students, especially those who are rural, first-generation college students, and other underrepresented groups.

### NSF EPSCoR Background

The National Science Foundation's Established Program to Stimulate Competitive Research (EPSCoR) enhances the research competitiveness of targeted jurisdictions - whether state, territory or commonwealth - by strengthening science, technology, engineering and mathematics (STEM) capacity and capability through investments, from talent development to local infrastructure. EPSCoR envisions its jurisdictions as recognized contributors to the national and global STEM research enterprise. West Virginia's most recent EPSCoR-funded Track-1 project was awarded in 2015 and wrapped up this year.

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### Report to the Legislative Oversight Commission on Education Accountability

**Dual Enrollment Pilot Program** 



West Virginia

**Higher Education** 



### MEMORANDUM

Policy Commission			
Andrew A. "Drew" Payne III Chair	TO:	Legislative Oversight Commission on Education Accountability	
Sarah Armstrong Tucker, Ph.D. <i>Chancellor</i> www.wvhepc.edu	FROM:	Dr. Corley Dennison, III Cally Frammette Interim Vice Chancellor for Academic Affairs	
	DATE:	September 11, 2023	
West Virginia Council for Community and Technical College Education	RE:	Dual Enrollment Pilot Program	
Christina Cameron <i>Chair</i> Sarah Armstrong Tucker, Ph.D. <i>Chancellor</i> www.wvctcs.edu	HB2005- "In conjunction with the state board and under the supervision of the commission and council, the chancellor and the state superintendent shall establish a four-year pilot program whereby eligible institutions shall offer dual enrollment courses that will comprise individualized pathways for career and post-secondary educational opportunities for the state's secondary school students."		
1018 Kanawha Blvd., East Suite 700 Chadactan WW 25301	The number of participating public institutions of higher education: 16 (seven four-year and nine two-year).		
Charleston, WV 25301 304-558-4618 (phone) 855-292-1415 (fax)	Estimated number of high school students enrolled in the pilot program: $\sim$ 4,200, enrollment at the participating institutions varies from a low of 55 students to multiple institutions enrolling at the cap of 475 student registrations.		
	Pathways offered: teaching, nursing, social services, business, IT, engineering, advanced manufacturing, welding, criminal justice, natural resources, and aviation maintenance.		
	2023. Comm on first roster	abmit class rosters to the Commission/Council on September 15, ission/Council will pay 60 percent of tuition reimbursement based . Final roster submitted at the end of the semester and Council pays up to the final 40 percent.	

Next submission period for additional pathways to begin spring semester, 2024, October 23 to November 3, 2023.





### Report to the Legislative Oversight Commission on Education Accountability

2023 Veteran-Friendly Campus Act Report (§18B-4-9)





August 23, 2023

West Virginia Higher Education Policy Commission

Andrew A. "Drew" Payne III *Chair* 

Sarah Armstrong Tucker, Ph.D. Chancellor

www.wvhepc.edu

West Virginia Council for Community and Technical College Education

Christina Cameron Chair

Sarah Armstrong Tucker, Ph.D. Chancellor

www.wvctcs.org

1018 Kanawha Blvd., East Suite 700 Charleston, WV 25301 304-558-2101 (phone) 304-558-1011 (fax) The Honorable Craig Blair President West Virginia State Senate Room 229M, Building 1 State Capitol Complex Charleston, West Virginia 25305

The Honorable Roger Hanshaw Speaker of the House West Virginia House of Delegates Room 228M, Building 1 State Capitol Complex Charleston, West Virginia 25305

Dear Mr. President and Mr. Speaker:

In accordance with West Virginia Code §18B-4-9, I am pleased to provide the following report regarding services and facilities for student veterans enrolled in West Virginia's public colleges and universities. We appreciate the Legislature's ongoing support of efforts to improve veterans' success in higher education.

The Office of Veterans Education and Training (OVET) of the West Virginia Higher Education Policy Commission (Commission) has continued to support legislative intent to provide "veteran-friendly" services to student veterans throughout the State. OVET works closely with its counterparts at the U.S. Department of Veterans Affairs (VA) to ensure that educational programs offered in the State of West Virginia are compliant with State and Federal laws and regulations and available to students using VA education benefits.

A survey was conducted to determine compliance with the various sections of the Code. Nineteen respondents participated in the survey, West Virginia University officials also responded on behalf of Potomac State College of WVU and WVU Institute of Technology. The following table includes the applicable sections of the Code and corresponding findings based on the survey results. The Commission and OVET are committed to working with the institutions to achieve compliance with all areas of the Code. President Blair Speaker Hanshaw August 23, 2023 P a g e 2

W. VA. CODE §18B-4-9	ACTIVITIES/RESULTS
(1) Establishing veteran-friendly community and technical college degree programs, which recognize and award academic credit toward degrees for various types of technical and vocational military training and experience;	17 institutions report compliance. Due to the unique mission of the West Virginia School of Osteopathic Medicine, it is unable to accept credit in this area toward the completion of its program.
(2) Developing policies for each State institution of higher education to grant academic credit for Armed Forces experiences;	17 institutions report compliance. Due to the unique mission of the West Virginia School of Osteopathic Medicine, it is unable to accept credit in this area toward the completion of its program.
(3) Developing programs to encourage student veterans to share their specialized experience and knowledge gained through military service by making presentations in class, public school programs, and local community organizations;	Most (15 of 19) institutions have developed programs of encouraging and allowing student veterans to share their experiences. Where programs are not available, it is common practice to encourage veterans to use their experiences to share with other students when possible.
(4) Establishing and sponsoring an organization for student veterans on campus and encouraging other veteran- friendly organizations;	Nearly all institutions (17 of 19) have active student veteran organizations. Others encourage participation with local VA organizations and campus activities but do not have an active organization at this time due to lack of too few veterans enrolled.
(5) Appointing and training specific faculty within each degree program or major as liaisons and contacts for student veterans;	Nearly two-thirds of all institutions (12 of 19) report compliance. Some institutions described trained faculty or staff available for some but not every program or major. A few institutions cite staff limitations and limited enrollment of VA students.
(6) Providing information about programs that grant credit for prior learning to student veterans and potential student veterans;	18 institutions report compliance. Due to the unique mission of the West Virginia School of Osteopathic Medicine, it is unable to accept credit in this area toward the completion of its program.
<ul> <li>(7) Coordinating existing disability services on campus with veteran disability services available from the United States Department of Veterans Affairs, other Federal and State agencies, and private resources;</li> </ul>	17 of 19 institutions report compliance.

President Blair Speaker Hanshaw August 23, 2023 P a g e 3

(8) Designating individuals to provide financial and psychological counseling services on each campus who are trained to effectively respond to the needs of veterans and to provide services or referrals to services to fulfill these needs for student veterans, and to the extent practicable, providing those services and programs in one location;	17 of 19 institutions provide both services, and two institutions offer referral services to psychological counseling services.
(9) Developing training materials on responding to student veteran needs to be available for continued professional development of counselors to student veterans;	A majority (17 of 19) of institutions report compliance.
(10) Facilitating regular statewide meetings for all personnel at State institutions of higher education who regularly provide specific services to student veterans to discuss and develop best practices, exchange ideas and experiences, and hear presentations by individuals with generally accepted expertise in areas of the various needs of student veterans;	10 institutions report compliance. Others do not facilitate or convene statewide meetings but participate in sponsored veteran training and best practices. The SAA is currently in the beginning stages of bringing back the yearly statewide meetings for all SCOs to take part.
(11) Gathering data on the status of student veterans, including their graduation rates, comparing that rate with the graduation rate of other students in the institution, and reporting those results to appropriate State and Federal agencies, including the West Virginia Legislature;	16 of 19 institutions report compliance. All institutions identify student veterans in reports that are requested.
(12) Establishing a program to create a collaborative relationship between student veterans and alumni of the institution, and with prospective employers to facilitate and provide employment as well as social opportunities to graduating student veterans;	Many (14 of 19) institutions have accomplished this initiative. Colleges are working with alumni associations to foster such relationships.
(13) Developing and facilitating communications between State institutions of higher education and various veteran organizations in the State	17 of 19 institutions report compliance.

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to advance veteran causes that benefit	
student veterans;	
(14) Coordinating among all relevant	
departments within each State institution	
of higher education including but not	
limited to admissions, the registrar, the	
bursar, the veterans advocate, and	
financial aid to ensure that relevant	All 19 institutions report compliance.
deadlines or time-lines are met for	All 19 institutions report compliance.
certifying veterans' enrollment as early as	
practicable to ensure that assistance is	
received from the U.S. Department of	
Veterans Affairs (DVA) in a timely	
fashion.	
	18 institutions report compliance. The
(15) Each State institution of higher	lone non-complaint (self-identified)
education shall appoint or designate and	institution does have a SCO on campus
train a person, preferably a veteran, to	that does advocate for veterans within
serve as a veterans advocate on its	the education programs but does not
campus.	have additional staff or student workers
	to assist in this area.

Please feel free to contact our office if we can provide additional information regarding this report.

Sincerely,

the dat

Sarah Armstrong Tucker, Ph.D. Chancellor

cc: The Honorable Amy Grady Chair, Senate Education Committee

The Honorable Joe Ellington Chair, House Education Committee