UNIVERSITY SYSTEM of MARYLAND

ANNUAL REPORT
2022

Annual Report 2022

Our Progress

A Letter from the Chancellor

This last year has been a special one. After a few semesters of remote and hybrid instruction, we came back together for a more traditional college experience, one enriched by in-person interaction among our students, faculty, staff, and neighbors. And then we unveiled a new strategic plan, mapping our path forward in service of our students and the state.

Foundational to that plan, *Vision 2030*, is the premise that the University System of Maryland is excellent, and has long been excellent. But the plan acknowledges, too, that excellence isn't enough; that a new generation of learners—with different needs, different ambitions, and different definitions of success—demands that we reimagine our access, our instruction, our scholarship, our impact. It acknowledges that the radical disruption we face within higher education demands that we innovate the way we operate and how we position ourselves to advance the public good.

That takes more than excellence. That takes preeminence. And that's where we're headed.

The USM is a work in progress. Always. So I offer you this report, detailing our progress on the things that matter most.

Jay A. Perman
Chancellor

Our Mission
To educate and serve the people of Maryland; advance equity, justice, and opportunity; and produce the research and scholarship that improve lives.

Our Vision
To be a preeminent system of public higher education, respected around the world for our leadership in developing learner-centered postsecondary education for all levels and life stages; creating knowledge that solves problems, strengthens communities, and makes meaningful change; and relentlessly pursuing equity, opportunity, and justice for all.

12
Universities

1 Bowie State University
2 Coppin State University
3 Frostburg State University
4 Salisbury University
5 Towson University
6 University of Baltimore
7 University of Maryland, Baltimore
8 University of Maryland, Baltimore County
9 University of Maryland Center for Environmental Science
10 University of Maryland, College Park
11 University of Maryland Eastern Shore
12 University of Maryland Global Campus

3
Higher Education Centers

13 Universities at Shady Grove
14 University System of Maryland at Hagerstown
15 University System of Maryland at Southern Maryland

Connecting Maryland to Opportunity
With 12 universities spanning the state, the USM fulfills Maryland's need for excellent, affordable, and accessible higher education. At our three regional higher education centers, the USM delivers our most in-demand programs to meet the needs of the workforce.

1
University System

Improving Lives Across Maryland and Around the World

Across the University System of Maryland (USM), more than 200,000 students, faculty, and staff are engaged in scholarship, teaching, and research that promote opportunity, advance social mobility, and fuel the state's economy. Our 12 institutions include major research institutions, historically Black colleges and universities (HBCUs), comprehensive regional universities, and the nation's largest public online university. In addition to serving the people of Maryland, our universities enroll students from all 50 states and from countries in every corner of the globe, creating an impressive network of alumni who are strengthening communities worldwide and building the global reputation of the USM.

162,515
Total enrolled students across all 12 USM institutions for Fall 2022

80%
Of the enrollment is composed of Maryland residents

80%
Of all bachelor's degrees received in Maryland last year were awarded by USM institutions

ALUMNI
1,212,000+
Worldwide living alumni of USM institutions
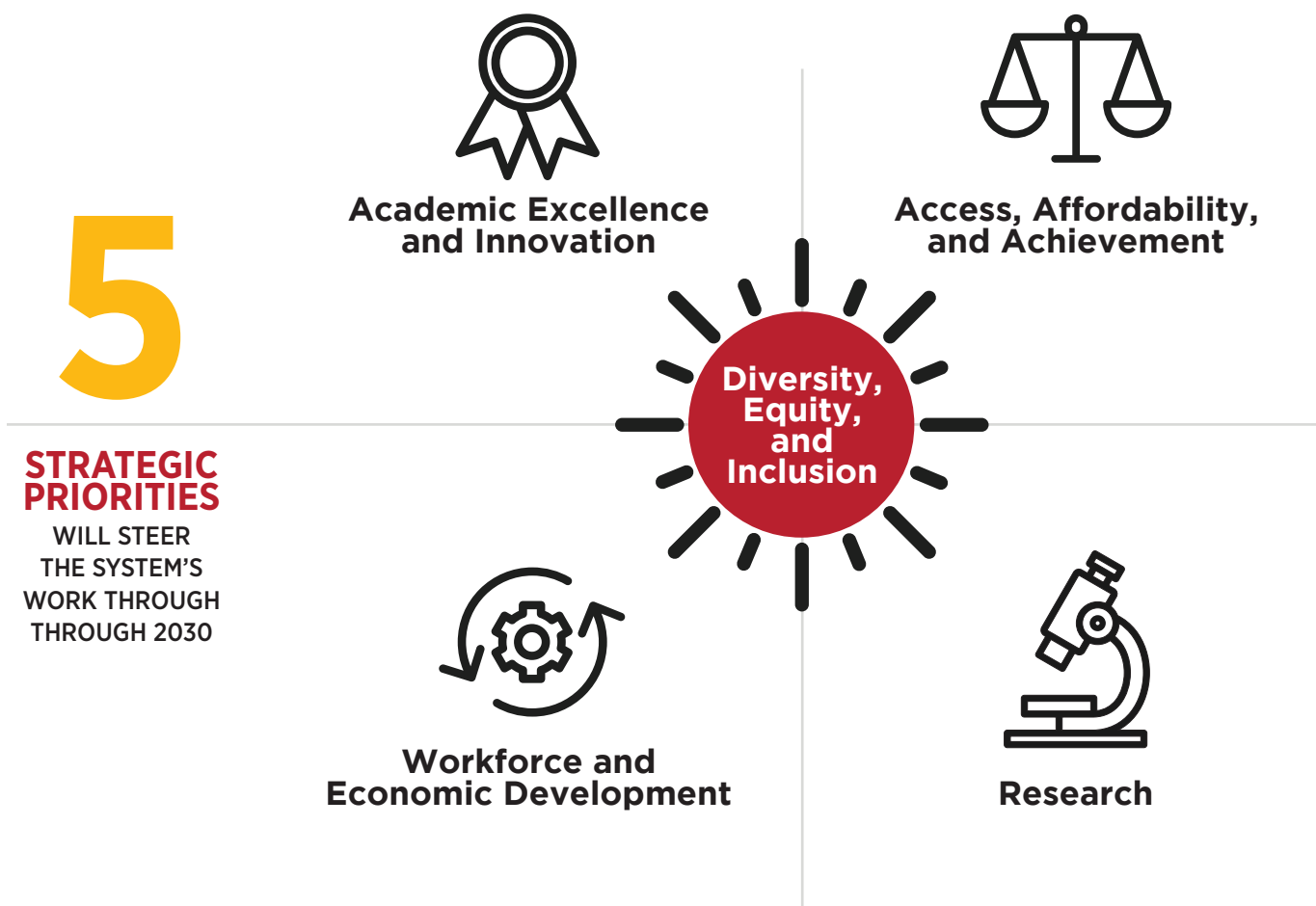
Transformation
From Excellence to Preeminence

Making Our Students the Starting Point

In June 2022, the USM Board of Regents voted to adopt *Vision 2030: From Excellence to Preeminence,* the new strategic plan that will bring a fundamental shift to how the USM defines and achieves new priorities in teaching, research, and economic development. At the heart of this plan is the conviction that the USM's work must be centered on students, their lifelong education needs, and their outcomes in the classroom, their careers, and the community.

Developed through a year-and-a-half-long process of stakeholder engagement, data analysis, and discussion with System and institutional leadership, *Vision 2030* expands and affirms the USM's mission, vision, and values; identifies the trends and disruptions that will require the USM to adapt and innovate; and establishes five strategic priorities that will guide our work through the end of the decade.

Within each of these priority areas, USM leaders have established a set of short-, mid-, and long-term goals we will have accomplished by 2025, 2027, and 2030. To view the full plan visit **www.usmd.edu/vision2030** and to check on our progress, visit **www.usmd.edu/dashboard-indicators**.

5

STRATEGIC PRIORITIES

WILL STEER THE SYSTEM'S WORK THROUGH THROUGH 2030

Academic Excellence and Innovation

Access, Affordability, and Achievement

Diversity, Equity, and Inclusion
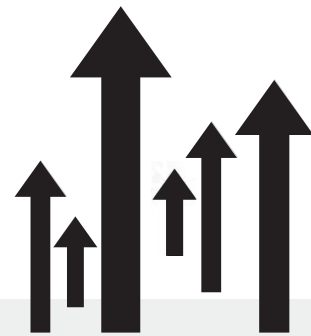
Workforce and Economic Development

Research

"The University System of Maryland is moving from a university-centered perspective to a student-centered perspective. What that means, very simply, is that we're going to provide the financial, academic, and outreach services to make this a better experience for all students."

Linda Gooden, Chair,
USM Board of Regents

Excellence and Innovation

Rising to Meet New Challenges and Opportunities

The USM provides Marylanders with a world-class education in their home state, while also attracting talented students and faculty from across the nation and around the globe. Through the state's investment in the USM's people, programs, and world-class facilities, our institutions have firmly established reputations of excellence within the communities they serve, within their fields of expertise, and on a national scale. With leadership and support from the USM's William E. Kirwan Center for Academic Innovation, our institutions pioneer new academic practices and pathways, and adopt new resources and technologies, to improve scholarship and research and help our students meet their lifelong learning goals.

USM ranks among the best with USM universities recognized in national rankings of

- National Public Universities
- Regional Universities - North
- HBCUs
- Best Value
- Social Mobility
- Most Innovative
- Best for Veterans
- LGBTQ+ Friendly
- Best for Student Voting
- Undergraduate Teaching
- World Universities

83%

Of first-year, full-time students who entered USM institutions in Fall 2021 returned for their sophomore year, compared to the national retention rate of 82% for 4-year public institutions

33

Fulbright U.S. Scholar and Student awards presented to students and faculty from USM institutions in 2021-2022

FULBRIGHT

Creating a Culture of Academic Innovation

The William E. Kirwan Center for Academic Innovation leverages the power of multi-institutional collaboration to increase access, affordability, and achievement of high-quality credentials. Since 2013, the Kirwan Center has helped USM institutions implement, evaluate, and scale innovations aimed at enhancing student success. In 2022, the Center's achievements included organizing two convenings of higher education leaders focused on empowering USM students to be agents of change in promoting health equity and increasing the accessibility of instructional technologies and digital materials. It also published an openly licensed volume of essays titled *Silver Linings: Lessons Learned from Teaching During the Pandemic,* featuring contributions by faculty and staff from across the USM. The Kirwan Center also awarded grants to support systemwide adoption of open education resources, an initiative that has benefitted more than 122,000 students by providing more than $18 million in textbook savings over the past eight years.

Diversity, Equity, and Inclusion

Advancing Equity and Justice in Our Universities and Beyond

The USM's vision of excellence goes hand in hand with our commitment to diversity, equity, and inclusion, values which form both the foundation of the USM's *Vision 2030* strategic plan and also are included as a priority goal within the plan. The USM is one of the most diverse public university systems in the nation but aspires to better reflect and serve the full diversity of our state. The USM continues to increase both enrollment and degree attainment by underrepresented (defined as Black, Hispanic, American Indian, and Native Hawaiian) or other (defined as Asian and multiple races) minority populations. The USM is also strengthening programs to recruit, retain, and advance faculty and staff from underrepresented groups. Through these efforts, our institutions are building inclusive learning communities where individuals of all backgrounds are welcomed, valued, and offered equitable opportunities to succeed.

51%
Of USM students are from underrepresented and other minority populations

20%
Increase in enrollment by underrepresented minority populations since 2012

30%
Increase in the number of faculty positions held by underrepresented minority populations since 2012

50%
Of undergraduate STEM degrees were earned by students from underrepresented and other minority populations in FY 2022

13,466
Undergraduate degrees awarded to students from underrepresented and other minority populations in FY 2022

Access and Achievement

Giving Every Learner Opportunities to Succeed

As the state's public higher education system, the USM focuses on creating education opportunities that empower individuals to realize their potential. The USM upholds the belief that higher education is a public good and accessible to all, including recent high school graduates but also learners with some college but no degree, working adults, immigrants, and underserved populations. The USM's student-centered approach means that as students enter the doors of our universities, bringing their unique needs and experiences, they are greeted with the support, resources, and education pathways needed to achieve their lifelong learning goals.

14,428
First-time, full-time students for Fall 2022, an increase of 2.2% since Fall 2021

9,927
Transfer students from Maryland community colleges enrolled in USM institutions for FY 2022

25%
Increase in the number of bachelor's degrees awarded by USM institutions since 2012

71%
Six-year graduation rate for the first-time, full-time cohort entering USM institutions in 2016, well above the national six-year rate of 62% for 4-year public institutions

42,945
Degrees awarded by USM institutions in FY 2022
30,593 UNDERGRADUATE DEGREES
11,142 GRADUATE DEGREES
1,210 PROFESSIONAL DEGREES

Collaborating to Prepare College-Ready Students

To advance our strategic priority of improving higher education access, the USM partners with Maryland's 16 community colleges, 24 public schools systems, and education non-profits to develop the pipeline of college-ready students. In June 2022, for example, the Universities at Shady Grove announced the formation of the Ready Institute with Montgomery College and Montgomery County Public Schools, an initiative that will develop data-driven pathway pro-grams to prepare students at an early age for college success and high-demand jobs. Also, in October 2022, Governor Hogan announced a 380% increase over five years in the number of Maryland high school students who have taken a high quality computer science course, an achievement made possible in part by the USM's Maryland Center for Computing Education, which works to bring computer science instruction into every Maryland public school.

Generating Savings through Careful Stewardship

For nearly 20 years, the USM's Effectiveness and Efficiency (E&E) Initiative has guided our institutions' efforts to optimize resources, avoid costs, generate new revenue and savings, and improve the overall quality of students' education experience. Since 2003, the E&E Initiative has yielded more than $1.5 billion in cost avoidance, savings, and revenue generation. Through careful stewardship of our resources, the USM has maintained favorable credit ratings from all the major rating agencies (AA+ rating by S&P Global Ratings and Fitch Ratings and Aa1 from Moody's), resulting in low borrowing costs that save the System millions in interest costs each year. The USM returns these savings to our students and their families by keeping the cost of higher education affordable and stable.

Affordability

Keeping the Cost of College Within Reach

In 2022, the USM continued to uphold its promise to make higher education affordable for all. With support from the governor and the Maryland General Assembly, average in-state tuition and fees for Maryland's public, four-year institutions remain below the national average. Among all 50 states, Maryland falls precisely in the middle—25th—for public in-state tuition and fees, and is less expensive than the neighboring states of Delaware, Virginia, and Pennsylvania. Debt levels for in-state students completing undergraduate degrees at USM institutions also fall below the national average. In 2021, about fifty percent of the USM's in-state, baccalaureate recipients completed their college experience with zero debt and an additional 12 percent of these students graduated with debt levels of less than $10,000.

50%
Of undergraduate students attending USM institutions graduate without debt

$190M
Awarded in institutional financial aid to undergraduate students in FY 2022

$64M
Awarded in **need-based** institutional financial aid to undergraduate students in FY 2022
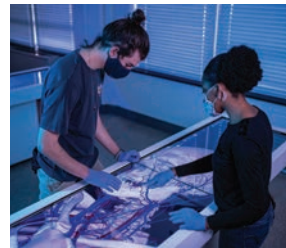
30%
Increase in need-based financial aid to undergraduate students since 2012

Research

Developing Ideas that Change the World

Across the 12 USM institutions, faculty and staff conduct research that advances discovery, promotes understanding, fuels innovation, and supports economic growth. USM institutions are research powerhouses with distinctive areas of expertise in cutting-edge fields, such as artificial intelligence, bioinformatics, cybersecurity, quantum computing, environmental science, public health, and more. When USM universities collaborate to exchange ideas and maximize resources, they create a dynamic environment where discovery and innovation thrive. The USM is a driving force behind Maryland's top five ranking in the *Milken Institute's State Science and Technology Index* in 2022, including a number two ranking in the Research and Development Inputs category and a number three ranking in the Technology and Science Workforce category.

337
Technologies licensed or optioned by industry partners over the past five years

$1.3 Billion
In research expenditures by USM institutions in FY 2020

9,000+
People employed in nearly 250 companies located in USM research parks
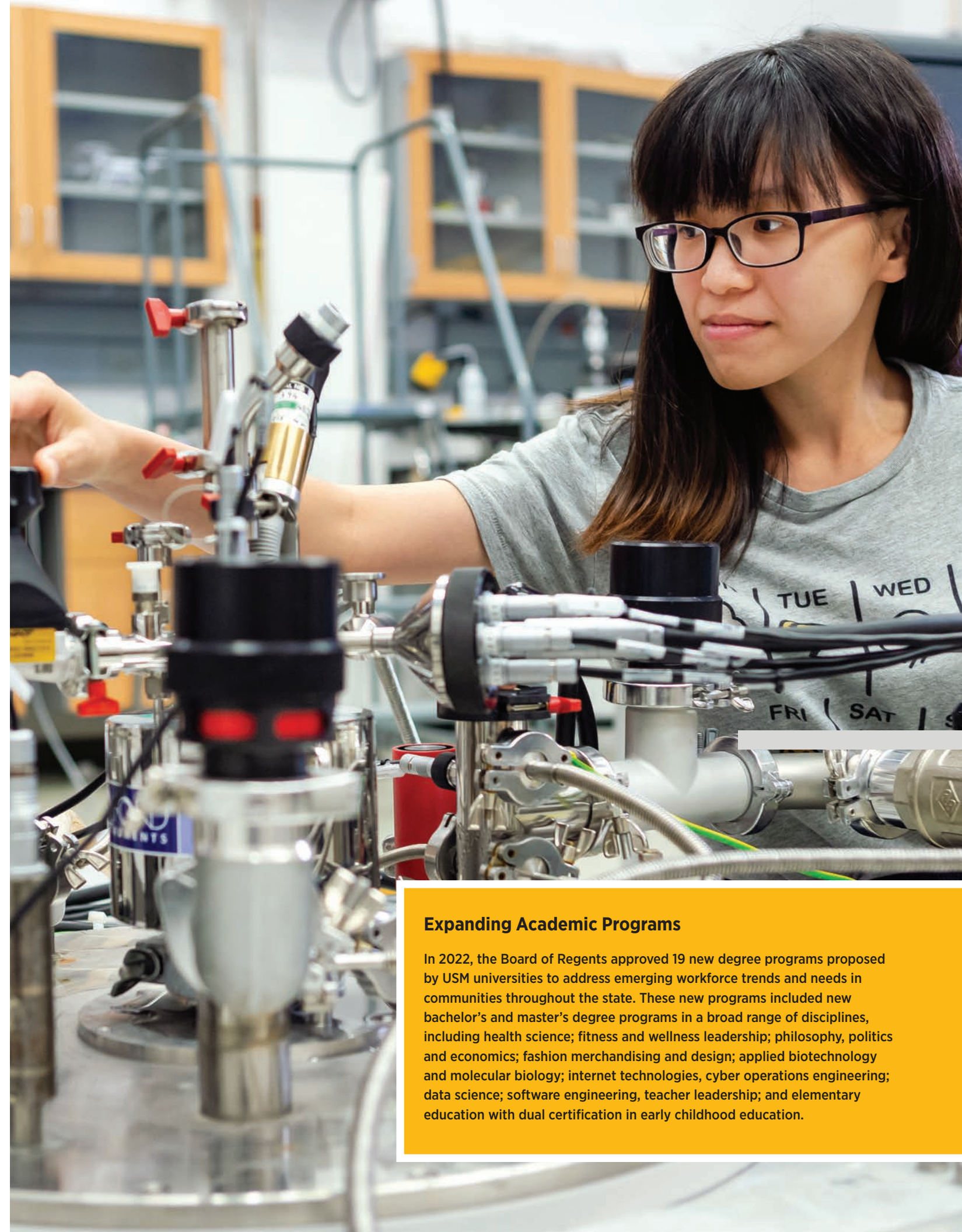
344
Inventions per year on average by USM institutions

Top 20
Of patent-earning institutions worldwide with 134 patents issued to USM institutions in 2021

Expanding Academic Programs

In 2022, the Board of Regents approved 19 new degree programs proposed by USM universities to address emerging workforce trends and needs in communities throughout the state. These new programs included new bachelor's and master's degree programs in a broad range of disciplines, including health science; fitness and wellness leadership; philosophy, politics and economics; fashion merchandising and design; applied biotechnology and molecular biology; internet technologies, cyber operations engineering; data science; software engineering, teacher leadership; and elementary education with dual certification in early childhood education.

Workforce Development

Creating Careers with Impact

Maryland is a paragon when it comes to education attainment, ranked in the *State New Economy Index* as number one among all states for the education attainment of its working-age population. Our universities support this continued excellence by constantly adapting to provide higher education that not only helps students achieve their career aspirations but also meets employers' growing demand for skilled workers. Responding to critical statewide and national shortages in the STEM, cyber, education, and health care fields, our universities collaborate with partners in business and government to develop solutions to the most pressing workforce needs, including new academic areas of study, micro-credentials, internships, and service-based learning opportunities.

88%
Of all bachelor's degrees in computer science earned in Maryland were awarded by USM institutions

12,335
STEM degrees awarded by USM institutions in the 2021-2022 academic year

1,545
Teaching degrees awarded in FY 2021

4,007
Health care degrees awarded by USM institutions in the 2021-2022 academic year

77%
Increase in undergraduate health care profession degrees since 2012

Building Tomorrow's Workforce

When the COVID-19 pandemic intensified the demand for health care workers, the nursing programs at USM institutions responded by introducing special early-exit programs for their students, allowing nearly one thousand students to graduate early in 2020 and 2021 and begin caring for patients immediately. In 2022, USM institutions once again began crafting solutions to a critical, statewide workforce shortage, this time in the teaching profession. This year, USM institutions received more than $11 million in U.S. Department of Education and National Science Foundation grants to support initiatives to recruit, train, and retain teachers for Maryland schools. Each university is leveraging its unique strengths and resources to target high-priority goals, including diversifying the teaching workforce, filling vacancies in early-childhood, STEM, and special-education, and preparing teachers to teach in high-need urban and rural schools across Maryland.

Economic Growth

Leading Maryland Through Change and Toward Prosperity

The USM is a powerful catalyst for economic growth throughout Maryland, the Mid-Atlantic region, and beyond. In fact, for every dollar the state invests in the System, we return nearly $3 in economic impact for Maryland. In classrooms, laboratories, and incubators across the System, new ideas, technologies, and products are emerging and driving the creation of new businesses and jobs. USM institutions collaborate with Maryland businesses and help them grow by providing them with access to research expertise, state-of-the-art facilities, skilled employees and interns, funding, and other resources. Every part of the state is touched by the work of USM institutions, which employ tens of thousands of people statewide and support additional jobs in the companies that serve USM campuses.

Investing in USM Innovation

The USM Maryland Momentum Fund is the system's venture capital fund, which invests in Maryland-based companies connected to USM people and institutions in order to support entrepreneurism and foster economic development. Since inception, Maryland Momentum Fund investments and co-investments by USM institutions have totaled more than $10 million in 28 USM-affiliated companies across a wide range of industries, including aerospace, artificial intelligence, biotechnology, cybersecurity, and food safety.

$10.4 Billion
Estimated annual economic impact of the USM on the state of Maryland

93
Start-up companies formed based on USM inventions and other intellectual property in the past five years

175
Start-up ventures supported by USM institutions in FY2022, including 61 student-led start ups

$1.8 Million
Investments made by the USM Maryland Momentum Fund in 8 USM-affiliated companies in 2022

Growth and Sustainability

Realizing Our Vision for the Future

With a clear vision of the future we want to build, the USM continues its investment in world-class facilities and technology infrastructure that enhance our universities' academic and research excellence. In 2022, USM institutions opened, constructed, and broke ground on new facilities that will attract talented students and faculty, as well as business partners and entrepreneurs who are eager to collaborate in these state-of-the-art spaces. Many feature spaces designed to provide health services, education programs, and other resources for the local community, ensuring that the project benefits reach far beyond the campus borders.

Protecting Our Global Environment

The USM Environmental Sustainability and Climate Change Initiative calls our System to serve as a change agent for environmental sustainability. Our USM institutions elevate education and research activities focused on climate change, clean energy, and natural resource management. Faculty experts from across the USM—including the University of Maryland Center for Environmental Science (UMCES), our foremost environmental research institution—provide guidance and solutions that shape public policy, transform business practices, and protect our natural world. Their guidance also strengthens the USM's efforts reduce the environmental impact of each university's operations, leading to significant progress in resource conservation and waste reduction across the System.

Under Construction, 2022
College of Health Professions Building
Towson University

Opened, December 2022
School of Pharmacy and
Health Professions Building
University of Maryland Eastern Shore

Groundbreaking, October 2022, 4MLK Building at the BioPark University of Maryland, Baltimore

Groundbreaking, November 2022,
Stanley R. Zupnik Hall
Interdisciplinary engineering building
University of Maryland, College Park

Groundbreaking, May 2022
Martin Luther King Jr.
Communication Arts & Humanities Building
Bowie State University

39%
Average campus recycling rate at all 12 institutions, which exceeds the statewide goal of 30%

All new buildings on USM campuses are required to achieve LEED certification of Silver or higher

41%
Average campus reduction in carbon dioxide emissions at all 12 institutions since 2006

1st
Maryland Coastal Adaptation Report Card was released by UMCES in 2022 to assess the state's ability to adapt to climate-related coastal changes

All USM institutions are eagerly working with State agencies to implement the requirements of the new Maryland Climate Solutions Now Act of 2022

UNIVERSITY SYSTEM
of MARYLAND

Advancing Scholarship and Research to Improve Lives

1

Public Higher
Education System

3

Convenient Regional
Education Centers

12

Nationally and World-
Renowned Universities

Bowie State University
Coppin State University
Frostburg State University
Salisbury University
Towson University
University of Baltimore
University of Maryland, Baltimore
University of Maryland, Baltimore County
University of Maryland Center for Environmental Science
University of Maryland, College Park
University of Maryland Eastern Shore
University of Maryland Global Campus

REGIONAL HIGHER EDUCATION CENTERS
Universities at Shady Grove
University System of Maryland at Hagerstown
University System of Maryland at Southern Maryland