2017–18 WAS VERY SUCCESSFUL FOR BINGHAMTON UNIVERSITY, with increasing national recognition for academic quality, innovative research and scholarship, and educational value. During the past year, the University’s relationships with the community and state were strengthened through economic development partnerships, educational outreach and service, and a growing regional presence, highlighted by the planning and on-going construction of the University’s new Health Sciences Campus. With a visionary Road Map serving as its strategic plan, the campus is well-prepared to build on its role as a leader in higher education.

THE CLASS OF 2022

Binghamton’s reputation for academic excellence means that we are in high demand. The University received over 43,350 freshman and transfer applications for fall 2018 admission, with an acceptance rate of just 40 percent, making us one of the most selective public universities in the nation. This year’s freshman class of approximately 2,850 students is exceptionally talented, with a record 1370 average SAT score and an average high school GPA of 95. This brings our total enrollment to over 17,700 students, with nearly 14,000 undergraduate and more than 3,700 graduate students—a increase of nearly 480 students compared to our 2017–18 enrollment.

A GROWING CAMPUS

This class enters a campus riding a years-long period of growth and expansion. Fueled by $130 million in state investments from NYSUNY 2020, Regional Economic Development Council appropriations, Empire State Development grants and Upstate Redevelopment Initiative funding, Binghamton University has:

- increased expenditures to over $783 million, up from $650 million in 2012-13
- increased enrollment by 2,700 students
- increased faculty and staff by 450
- increased its annual statewide economic impact to $1.5 billion

This state support was crucial in helping the University move forward on several of the major initiatives established in the 2013 Road Map to Premier strategic plan, including a new school in the health sciences, support for University and community entrepreneurship, and expansion of our research facilities and educational programs.
A NEW HOME FOR THE SCHOOL OF PHARMACY AND PHARMACEUTICAL SCIENCES

Last year, Binghamton welcomed the first class in its new School of Pharmacy and Pharmaceutical Sciences. This year, the new school has a new facility—a $60-million building in Johnson City that will make Binghamton a leader in providing interprofessional, patient-centered care and research. Students will learn up-to-date pharmacy skills and technologies with a focus on innovative and translational health outcomes and clinical research. This is an experiential program in which students will benefit from extensive clinical work in conjunction with nearby hospitals and healthcare providers. The school recently achieved Candidate status from the Accreditation Council for Pharmacy Education, assuring that students are properly credentialed when they graduate. The School of Pharmacy has also partnered with SUNY Broome Community College in a program that ensures enrollment in the Doctor of Pharmacy program for up to eight qualifying SUNY Broome students each year—a good fit, as it has a strong health sciences division and is a major feeder school for the University.

The pharmacy building itself is a state-of-the-art, real-world facility that includes high-tech simulator patients, a community pharmacy with a robotic dispenser, a hospital pharmacy with a sterile room for compounding appropriate ingredients for individual patients, and a community healthcare environment where students will work in a home setting and practice telehealth.

THE HEALTH SCIENCES CAMPUS

The University continues to make progress on the Johnson City Health Sciences Campus, with the co-location of the Decker School of Nursing. A $30-million renovation of an old shoebox factory is in the design phase. When it opens in 2020, it will be highlighted by simulation labs, offices, classrooms, advising and conference spaces, an information commons and public spaces.

The new building will allow for the expansion of Decker enrollment from approximately 400 now to around 700. The Decker School is expanding its academic offerings as well, with new programs in physical and occupational therapy, and speech and audiology therapy in development. The State University of New York (SUNY) has given its approval for the school to hire directors for these programs and we've set an aggressive timeline to enroll students.

In addition to the pharmacy and Decker buildings, the campus is also adding a $15.9 million research and development facility on the campus to support faculty research and entrepreneurial partnerships. The region's elderly will also find services at a new clinical facility for elder care, and greenspace and parking will be developed on properties surrounding the schools.

All of this activity is leading to the transformation of a neighborhood previously noted for its abandoned and poorly maintained buildings. We have already seen more than $130 million in private sector investment in the neighborhood surrounding the campus, with new commercial space and mixed-use development. We project that, as the campus nears completion, an additional $120 million from private sources will be invested in similar projects.
KOFFMAN SOUTHERN TIER INCUBATOR

In June 2017, the University celebrated the opening of the Koffman Southern Tier Incubator (KSTI), marking the completion of one of the University’s initial Road Map goals. Dozens of entrepreneurs are now located in the incubator, with some 40 firms as tenants of the KSTI. These companies are active in a wide range of industries – from healthcare and technology to agriculture and marketing. These firms benefit from the incubator’s 35,000 square-feet of research space, common areas, educational resources and technical assistance. Already, two companies have “graduated” from the KSTI and are now creating jobs in the community.

Several of the firms in the incubator have ties to our campus, including microBELLA, founded by PhD candidate Katie Cherny and with products about to go to market, and DB Therapeutics, run by Anthony J. Di Pasqua, assistant professor of pharmaceutical sciences, which is developing a cancer-killing bandage.

SMART ENERGY

With an eye to future research, we opened our Smart Energy Building at our Innovative Technologies Complex as the fall 2017 semester began. The planning for this facility dates back to 2012, when we first approached Gov. Andrew Cuomo with our plans to expand our campus as part of his NYSUNY 2020 initiative. With its opening, the Smart Energy Building now houses our chemistry and physics departments. The research conducted in the facility largely focuses on cutting-edge energy research and development, including harvesting and storage in areas such as thin-film solar panel design and production, consumer-ready solar cells and next-generation battery production.

INFRASTRUCTURE IMPROVEMENTS

In addition to large, new-construction projects, the campus is also upgrading existing buildings and strengthening our safety infrastructure. This past year, our Science 4 facilities received much-needed maintenance, with new elevators and changes to improve energy efficiency. Next year, similar work will be done on our Science 2 building, with improvements including new laboratories, classrooms and electrical, plumbing and cooling systems, with a makeover for Science 1 now in the design phase. In spring 2019, we also will begin critical maintenance in the Engineering Building. Some of the oldest buildings on campus in what was formerly the Dickinson residential community have also been renovated and repurposed, while Seneca, Cayuga and Onondaga halls in College-in-the-Woods have also been spruced up.

We also have made significant improvements to campus safety and our emergency communications. Following last semester’s review of safety policies and procedures, we’ve increased training for staff and student advisors in our residential communities and, most importantly, have enhanced the B-Alert emergency notification system to speed messaging to the campus. Now, students, faculty and staff must specifically opt-OUT from the system, instead of opt-IN. As a result, student, faculty and staff participation in the system has increased from 30 to over 60 percent. We’ve also installed additional security cameras and panic buttons in residence halls and added three counselors to our University Counseling Center staff.

“Over the past six years, Binghamton has greatly expanded its faculty, increasing the number of tenure-track faculty from less than 500 in 2012 to over 600 last year.”
—President Stenger
RENEWING THE FACULTY: 
NEW HIRES

Over the past six years, Binghamton has greatly expanded its faculty, increasing the number of tenure-track faculty from less than 500 in 2012 to over 600 last year. While state support for this expansion has largely ended, we continue to hire promising new faculty as more senior members of the campus community retire or leave for other opportunities. We are committed to recruiting faculty who are engaged in innovative and relevant research and scholarship, whose teaching will excite the next generation of students and whose creative work raises the University's profile. This year, for example, we've welcomed:

- **Melissa Sutherland**, professor of nursing, Decker School of Nursing, who was recently selected to be an American Academy of Nursing fellow and who focuses on global health.
- **Chandiren Valayden**, assistant professor of human development, College of Community and Public Affairs, whose work looks at racism and human rights.
- **Fuda Ning**, assistant professor of systems science and industrial engineering, Thomas J. Watson School of Engineering and Applied Science, whose research explores 3D printing of metals and composites.
- **David Sterling Brown**, assistant professor of English, Harpur College of Arts and Sciences, who is teaching a course this semester that has students pondering how race is portrayed in the writings of William Shakespeare and his contemporaries.

NEW ACADEMIC PROGRAMS

Faculty who are engaged and working to solve the world’s challenges are bringing that same passion into the classroom, developing new classes and programs that prepare students for the future. For example, this year the University added nine new graduate programs including a Master of Public Health that prepares students for a broad range of healthcare and public policy careers. We also have added a Master of Arts in Applied Liberal Studies, a Master of Science in Human Rights and a Master of Science in Healthcare Systems Engineering.

We also are offering two multi-award programs — one that awards a Master in Public Administration and Master of Arts in Sustainable Communities, and another that grants Master of Public Administration and Master of Science in Sustainable Communities degrees. New advanced-certificate programs include Community Schools and Adolescence Special Education. In the pipeline are a certificate program in cybersecurity, a Master of Data Analytics, a Master of Engineering Management, a Master of Genocide and Mass Atrocity Prevention, a Master of Information Systems and a PhD in Pharmaceutical Sciences, all of which will prepare students for in-demand fields.

INCREASING SCHOLARSHIP AND RESEARCH

Our newest faculty are joining a campus that is rapidly increasing its research and scholarship. In 2017–18, Binghamton saw research expenditures increase by 19.2 percent from the previous year, with total research expenditures of $47,475,298. This includes over $3.3 million from our pharmacy faculty — over their first two years of active research. Committed funds have increased to $57.6 million, up from $53 million in 2016–17. Our faculty are actively seeking external funding, with nearly $224 million in proposals submitted.

These grants show that our faculty pursue discoveries at the forefront of their disciplines. For example, biomedical engineering professor Kaiming Ye has received $5 million from the National Institute of Standards and Technology (NIST) to identify and define standards for cell biomanufacturing and tissue biofabrication, as part of a larger NIST grant with research partners at Johns Hopkins University and Morgan State University.

Similarly, physics faculty Louis Piper and Wei-Cheng Lee are part of a five-year, $7.1-million Department of Defense (DOD) grant in collaboration with researchers at the Georgia Institute of Technology. Their project will develop devices that combine data processing and storage using biological systems such as the human brain as their inspiration. In particular, they will look at the unique switching properties of niobium oxides, important for developing transistors that mimic neurons, the nerve cells that transmit information through electrical and chemical signals.

Faculty in the social sciences and humanities are also exceptionally productive, gaining recognition from both peers in their disciplines and the broader public. Associate Professor of History and Africana Studies Anne C. Bailey is receiving outstanding reviews for her new book, *The Weeping Time: Memory and the Largest Slave Auction in American History*, which chronicles the auction and traces the lives of the enslaved and their efforts to recreate family bonds after being sold. And Associate Professor of Health and Wellness Lina Begdache has been tracking how what you eat impacts your emotional well-being.
In the School of Management, Assistant Professor Scott Bentley’s recent work examining the impact of CEO pay on employee layoffs has made waves in the popular and business press, while Assistant Professor Chou-Yu Tsai is documenting that CEOs who have a compassionate leadership style actually get more and better performance from employees.

Several Binghamton faculty are focusing their research on solutions to significant health problems that especially impact residents of New York state. We received a SUNY Center-Scale Proposal Planning and Development Grant and have established the Opioid Research Center for Central New York in partnership with SUNY Upstate Medical University and community leaders. Similarly, other faculty have established the Lyme and Other Tick-borne Diseases Research Center on campus to focus on the epidemiology and ecology, diagnostics and public-health impacts of tick-borne diseases.

Binghamton University prides itself on collaborative research and scholarship that produces stimulating, evocative work, whether it be produced in the library, the laboratory or the conference hall. For example, the University’s Center for Medieval and Renaissance Studies has recently produced a pathbreaking collection of essays published by the University of Toronto Press. Reconsidering Boccaccio: Medieval Contexts and Global Intertexts examines the life of the 14th-century Florentine renaissance writer, Boccaccio; these essays resulted from one of its annual conferences — organized and hosted by Binghamton University — that celebrated the 700th anniversary of the writer’s birth, attracting first-rate scholars from around the world.

Faculty collaboration in research and scholarship also drives the University’s new approach to hiring faculty and supporting research. In 2013, the campus created five Transdisciplinary Areas of Excellence (TAEs): Citizenship, Rights and Cultural Belonging; Health Sciences; Material and Visual Worlds; Smart Energy; and Sustainable Communities. All are areas of inquiry that raise complex questions across multiple disciplines. To date, we’ve hired 96 core TAE faculty and more than 180 faculty are participating in TAE collaborations. Our investment of over $928,000 in seed-grant monies has generated more than $4 million in external funding, while TAE-affiliated faculty are responsible for more than $17 million in external research support. And, as of July 2018, we are moving forward with our sixth TAE in Data Science that will bring together research faculty from fields as varied as mathematics, computer science, the humanities and the social sciences.

CHALLENGES

Binghamton’s faculty and staff are the key to the University’s success — producing pioneering and thought-provoking research and scholarship, developing innovative academic programs that challenge students and prepare them for meaningful careers, and providing services and support that strengthens the entire University community.

In recognition of the vital roles that our faculty and staff play, both on campus and throughout SUNY, Gov. Andrew Cuomo negotiated contracts this year that provide significant raises for our UUP personnel, consistent with raises our CSEA and PEF personnel received last year. All of these raises are well-deserved and long overdue, and help make our campus more competitive in terms of recruiting and retaining the best faculty and staff.

At the same time, these raises will have an impact on the University’s budget, as Albany has not appropriated funds to cover the costs of the negotiated increases. SUNY has indicated that the individual colleges and universities will have to cover these costs out of their own budgets and reserves. Because the contract will increase salaries retroactively, this means that Binghamton University will have to absorb approximately $10 million next year, with an ongoing cost of over $4 million in following years.

Fortunately, Binghamton has been preparing for fiscal challenges ever since the recession of 2008, holding in reserve a portion of our operational funds. This gives us some flexibility in meeting these costs. We will also grow enrollment (particularly among master’s and doctoral students) and seek moderate increases in tuition and student fees. These actions will help us meet our immediate requirements, but are not a long-term solution. Ultimately, this is a problem that we and Albany will need to solve together.
NEW INITIATIVES

We also will continue to invest in programs and projects that will grow resources and attract the best faculty and students. In 2017, our Road Map Renewal identified four University Initiatives that will help us attain these goals. We are making good progress on each of these:

**PRESIDENTIAL DIVERSITY POST-DOCTORAL FELLOWSHIPS**
Designed to attract minority faculty to campus, the initiative has received $332,000 in matching funds from SUNY. The first cohort of post-docs arrived on campus this fall and will be on campus for two years, with an optional third year depending on the discipline.

**DATA SCIENCE**
Perhaps the most complex of the Road Map Renewal projects is the Data Science Initiative (now a TAE) that has created an intellectual and physical infrastructure on campus to support the wide variety of data science possibilities. The working group identified both the range of research areas and the challenges we face in developing the program, and has established seed grants to involve faculty, as well as a seminar series to explore the issues involved. Our next step will be to purchase the necessary instrumentation, and iron out privacy and security concerns. Faculty for the initiative will be hired as part of the new Data Science TAE.

**HEALTH SCIENCES CAMPUS**
Progress continues, with construction and renovations underway. The Decker School of Nursing has submitted proposals for new physical, occupational, speech and audiology therapy programs, and has received approval to hire program directors. We are currently preparing to begin enrolling students in these new programs.

**HEALTH SCIENCES CORE**
This project will acquire advanced instrumentation to support education and research in the health sciences, particularly in the fields of psychology and neuroscience. These devices will significantly enhance our faculty's ability to obtain grants and pursue top-level research. The University’s Center of Excellence will house the core facility and a PhD researcher has been hired to manage the program. The group is working with faculty to develop grant proposals to fund equipment purchases.

ADVEMENT

The University is also making progress on another major initiative — our third comprehensive gifts campaign, with a working goal of $150 million. We are currently in the second year of the campaign’s silent phase (shhh!), and have raised over $32 million so far. We expect consistent fundraising growth during the course of the campaign, with donations reaching $15-20 million per year, compared to around $7 million in 2012. These funds will be crucial in helping the University reach its educational, research and outreach goals and will provide much-needed flexibility as we confront a more challenging fiscal future.

THANK YOU!

This has been a very successful year for Binghamton University. We’re making progress on every front — with a new campus taking shape in Johnson City, with new academic programs and initiatives that will ensure our place as the premier public university. We are climbing in the national rankings and our reputation is growing in New York and across the nation.

All of these achievements are the result of the people who work at Binghamton. I’m proud of what we’ve accomplished — what all of you have accomplished! Thank you for all of your efforts and let’s have a great year!
“All of these achievements are the result of the people who work at Binghamton. I’m proud of what we’ve accomplished — what all of you have accomplished!”

—President Stenger

QUESTIONS OR COMMENTS?

Contact President Stenger directly at hstenger@binghamton.edu.

www.binghamton.edu/sobu2018