UIDP Xurban 2022

Bahgat Sammakia, Binghamton University





About Greater Binghamton

Greater Binghamton economic development leaders like to say this small metro punches above its weight. Why?

- Geography: A strategic location that's half a day's drive to every major Northeast metro
- Culture: Home to the Mets' Double-AA affiliate, a tournament on the Champion's Tour, a philharmonic orchestra and an opera company
- Education: About 45% of Broome County residents have earned a bachelor's or post-graduate degree





About Binghamton University



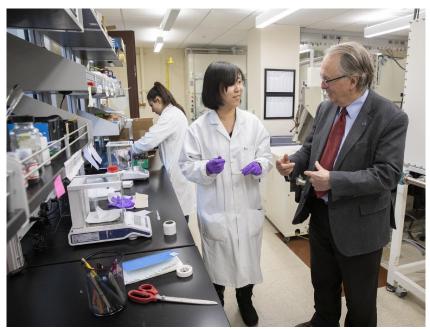
Binghamton University, part of the SUNY system, had research expenditures of \$46.5M in 2020-21. An R1 campus that enrolls about 18,000 students, Binghamton has embraced its role as a driver of the regional economy. That means:

- Research centers, including the S3IP Center of Excellence, nurture industry partnerships
- Campus expansions benefit area downtowns
- Entrepreneurship team focuses on startups, tech transfer



S3IP, a New York State Center of Excellence

S3IP addresses pressing problems in the systems integration and manufacturing of electronics. There are centers focused on electronics packaging, flexible electronics, energy-efficient data centers and energy harvesting and storage. S3IP has contributed over \$1B in economic impact to New York State since 1996.



S3IP is the research home of chemist M. Stanley Whittingham, 2019 Nobel laureate.

S3IP Org Chart





STATE UNIVERSITY OF NEW YORK

Dr. Bahgat Sammakia, Director and VP for Research Dr. Steve Czarnecki, Associate Director



Division of Science, Technology & Innovation

BINGHAMTON UNIVERSITY

Binghamton University Faculty & **Students**

Prof. SB Park Director

Prof. Ganesh Subbarayan (Purdue), Prof. Bahgat Sammakia; Prof. Kanad **Ghose: Co-directors**

Prof. Mark Poliks Director

Prof. Kanad Ghose Director

Prof. Tara Dhakal Director

Prof. Stan Whittingham 2019

Director

IEEC

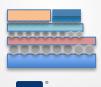
Electronics Packaging



NYS CAT

CHIRP

Heterogeneous Integration



SRC

CAMM

Flexible Electronics



NEW YORK STATE OF STATE OF Science, Technology

DoD Manufacturing USA NYS CAT

ES2

Energy-Smart Electronic Systems





NSF I/UCRC

CASP

Advanced Solar Energy





NSF Partnership for Industry

NECCES

Advanced Batteries



U.S. DEPARTMENT OF ENERGY

DOE EFRC

Analytical and Diagnostics Laboratory

Dr. Jennifer Amey, Chief Business Development Officer and **Research Scientist**



Transforming area downtowns



Binghamton's University Downtown Center helped revive Binghamton, especially downtown dining and housing, when it opened 15 years ago.

The Health Sciences Campus in Johnson City aims to have the same impact on that community. The School of Pharmacy opened there in 2018, joined by the College of Nursing and Health Sciences in 2021.

Next: We have our eyes set on a big project in nearby Endicott.



Entrepreneurship at Binghamton

Binghamton Incubator Program companies reported 353 full-time equivalents and 82 interns in FY2021.

