



Division of Research and Economic Development Centers of Excellence: Cybersecurity Advanced Manufacturing Entrepreneurship and Innovation

Sanjiv Sarin

Interim Vice Chancellor for Research and Economics Development

Board of Trustees University Affairs Committee Meeting

February 22, 2019



NORTH CAROLINA AGRICULTURAL
AND TECHNICAL STATE UNIVERSITY



- Research
- Educational programs
- Advise on cluster hiring of faculty
- Partnerships
- Tech transfer, new businesses and high skill jobs
- Training
- Public information



- Biometrics
- Big data analytics, visualization
- Cryptography
- Artificial intelligence/machine learning
- Public policy, communications, criminal justice, psychology, sociology, political science, finance, banking, transportation, healthcare, power grid, education, military...



- Materials characterization and testing
- Multi-functional materials
- Additive, micro and nano scale manufacturing
- Semiconductor manufacturing, biomanufacturing
- Networked manufacturing, cyber physical systems, IoT
- Public policy, communications, environmental sustainability, employment impact



- Creativity, design thinking and entrepreneurship culture
- Incubator, accelerator, rapid prototyping facility
- Alumni entrepreneur network
- Research: innovation science
- Courses, living learning community, teaching modules, speaker series, town-gown workshops
- Innovation fund to support student start-ups, scaling



- Center director
- Laboratory manager/research associate/post-doc
- Administrative assistant
- Graduate student assistant
- Faculty advisory committee
- Steering committee
- External advisory committee



- Permanent center director
- Strategic plan for the center
- Interdisciplinary faculty advisory committee.
- External advisory committee.
- Collaboration in education programs and courses
- Discussions with industry and business
- Process for sustaining the center



Dr. Tonya Smith-Jackson, professor and chair of the Department of Industrial and Systems Engineering. She has just completed an assignment as program director at the National Science Foundation in the Computer and Information Science and Engineering Directorate.



Dr. Ajit D. Kelkar, professor and chair of the Nanoengineering Department in the Joint School of Nanoscience and Nanoengineering. For the past twenty-five years, he has been working in the area of low-cost fabrication, processing and performance evaluation and modeling of polymeric and ceramic matrix composites



Dr. Thaddeus McEwen, professor in the Department of Management in the College of Business and Economics. He served as the coordinator of the Entrepreneurship Program for many years. Under his leadership, the program has added an entrepreneurship concentration, certificate and minor; Aggie Venture Accelerator, the Faculty Fellows in Entrepreneurship program, and the Aggie Student Incubator.

