What is BTEC?

- Simulated cGMP biopharmaceutical facility
- Education and training
- Process and analytical services
- First and largest in the world
Factors that led to establishment of BTEC

- Strong, and rapidly growing, Biotechnology industry in North Carolina
- Focused on manufacturing of biopharmaceuticals
- Need for a highly-trained work force
- Responsive to changing industry needs
- Hands-on, large scale, cGMP experiences

538 Companies + 138 Contract Research and Testing
23.5% Growth 2001 - 2010
58,495 Employees + 226,000 Total Jobs
$75,470 Average Salary
$64.6 Billion Impact
Who made BTEC happen?

• NC Biosciences Organization

• NC Biotechnology Center

• NC State University

• NC Central University

• NC Community College System
Request from the NC legislature (2003)

$70 million (2004)

• Golden LEAF Biomanufacturing Training and Education Center (BTEC) – NC State University ($39 million)

• Biomanufacturing Research Institute and Technology Enterprise (BRITE) – NC Central University ($20 million)

• BioNetwork – NCCC System ($11 million)
BTEC Key features

- 63,000 gsf labs
- 9,000 gsf classrooms
- $15 MM equipment
- $6 MM/y operating
- 46 Employees
- >50% Industry experience
- 2L – 30L – 300L Scales
- Upstream, downstream, analytical, regulatory

Shared with the Capstone Center – Wake Tech CC
BTEC Today

- UG and G minors & certificates in Biomanufacturing
- Students from many disciplines
- US First PSM in Biomanufacturing (NSF)
- AY 2012-13 enrollment of 740
- 400 Industry trainees in FY 2012
- BARDA - WHO grant to train vaccine manufacturers and regulators from 13 different countries (2011 – 2015)
- 15 – 20 Industry contracts/year - Process & Analytical Services
- Foreign partnerships – BTEC International