btec
Biomanufacturing Training and Education Center

NC STATE UNIVERSITY

2027 Professional In-Person Courses

COURSE TITLE	DATES
CGMP and Cleanroom Microbiology: An Introduction to Microbial Contamination Control * Live online course	Dec 15, 2026, Jan 12 or 28, 2027
Contamination Control Strategies and RCA/CAPA in Drug Substance Manufacturing *	February 2, 2027
Contamination Control Strategies and RCA/CAPA for Aseptic Processing and Cleanroom Environments *	February 3, 2027
Hands-On CGMP Biomanufacturing Operations for Upstream	March 16–17, 2027
Hands-On CGMP Biomanufacturing Operations for Downstream	March 18–19, 2027
Artificial Intelligence in FDA-Regulated Manufacturing: From Foundations to Implementation	Mar 31–Apr 1, 2027
Essentials of Spray Drying and Powder Analysis	May 27, 2027
Fundamentals of Mammalian Cell Line Development	June 2–4, 2027
Hands-On Bioprocess Chromatography: from Theory to Application	June 7–11, 2027
Cell Culture Engineering	June 8–10, 2027
Applied Cleaning Validation Practices: A STERIS Master Class	June 9–10, 2027
Hands-On CGMP Biomanufacturing Operations	June 15–18, 2027
Introduction to Biopharmaceutical Lyophilization	June 15–16, 2027
Biopharmaceutical Assay Essentials	June 22–24, 2027
Hands-On Essentials of Automation for Biomanufacturing	June 22–24, 2027
Downstream Biopharmaceutical Processes: Fundamentals and Design	June 29–July 1, 2027
Distributed Control Systems for Bioprocessing Operators	June 30, 2027
Hands-On CGMP Biomanufacturing Operations	July 13–16, 2027
Hands-On Biomanufacturing of Vectors for Gene Therapy	July 27–30, 2027
Fermentation Engineering	July 27–29, 2027
Preparative Chromatography Column Packing: Lab to Process Scale	August 3–5, 2027
Hands-On CGMP Biomanufacturing Operations	August 10–13, 2027
Applied Principles and Techniques of Depth Flow Filtration (DFF) and Tangential Flow Filtration (TFF) for BioPharm Purification	October 12–15, 2027

** Asterisks indicate that the courses are standalone and designed to complement each other.*

Scan the QR code to learn more about each course. If you are interested in taking more than one course, BTEC also offers a **Professional Certificate in Biomanufacturing Science**.

btec.ncsu.edu/professional

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