Applied Principles and Techniques of Depth Flow Filtration (DFF) and Tangential Flow Filtration (TFF) for BioPharm Downstream Purification

Full 4-day course fee: $3,200
3-day lab-only fee: $2,400
1-day lecture-only fee: $800

For course dates, visit go.ncsu.edu/btec_short_courses

Join us in partnership with John Rozembersky for this four-day comprehensive filtration course. You will learn the fundamental principles and optimum applied techniques for depth filtration (DFF) and tangential flow filtration (TFF) used today in biopharmaceutical downstream purification.

The one-day lecture is designed to help individuals gain a solid understanding of the parameters and factors that affect DFF and TFF membrane performance and product recovery for both upstream cell clarification and downstream UF/DF biopharmaceutical applications. Depth filtration (DFF) will cover polymeric membrane and matrix media technologies, and tangential flow filtration (TFF) will cover both flat sheet cassette and hollow fiber element configurations. New advancements will be covered.

During the three-day hands-on laboratory workshop, DFF and TFF application trials are performed using state-of-the-art benchtop systems. Two full-day sessions are dedicated to cell clarification—with DFF on day one and by TFF on day two. Day three focuses on UF/DF by TFF. Data developed during these trials will be summarized, discussed, and applied to real scale-up system problems and SOP. The principles and techniques presented in the prerequisite lecture course will be applied in this workshop, which is limited to 12 participants.

For additional information, please contact BTEC Professional Development and Marketing Coordinator Erica Vilsaint at embrown4@ncsu.edu.

REGISTER NOW: go.ncsu.edu/btec_short_courses
What short course participants say about this course

“John was a great instructor and was very knowledgeable. He was open to questions and discussions throughout the course. The lab work was a great practical application of the principles and helped to solidify the course material. I would definitely recommend this course to those wanting a deeper understanding of filtration principles.”

“John was exceedingly knowledgeable about filtration, and a very charismatic instructor. It was as much fun as it was educational.”

“This is a great introduction to filtration used in bioscience because of the extensive background covered during the lecture on the first day, and the small class sizes allow ample hands on experience.”

About the instructor

Together with BTEC, this lecture and laboratory course is presented by John Rozembersky, president of Rozembersky Group, Inc., an independent biofiltration consulting firm he founded in 2005. Mr. Rozembersky’s hands-on experience and in-depth knowledge of filtration and purification span over 40 years with Millipore, Filtron, Pall, WaterSep, and currently ArteSyn Bio. He is an internationally recognized authority in TFF in the biopharmaceutical sector from benchtop development to large-scale manufacturing for both flat sheet (cassette) and hollow fiber formats. His focus the past several years has been addressing the challenges in single-use applications and process systems by providing successful solutions to clients that result in higher performance, quality and yield of their products.

Location

This course is held on site at BTEC. The Golden LEAF BTEC building is located at 850 Oval Drive on NC State University’s Centennial Campus.

Payment

BTEC accepts payment from all major credit cards including American Express, Visa, and MasterCard. If you wish to pay by company check, please email melody_woodyard@ncsu.edu for additional information immediately after registering.

Discounts available

A 20% discount is available to:

- Employees of NC Biotech Manufacturers Forum (BMF) member companies
- Groups of five or more from one company registering for the same offering of this course
- Individuals registering for more than one course at a time
- Faculty/staff working in academic environments

Pre-course communication

Registered course participants will receive an email three weeks before the scheduled course with detailed information regarding travel to BTEC, parking information, and a short pre-course questionnaire.

Cancellation policies

CANCELLATION BY REGISTRANT

To cancel a registration and be eligible for a refund of course fees, you must notify BTEC by email. Fees are refunded according to the following schedule:

- 100% refund – If notification is received at least 15 business days in advance of course start date
- 75% refund – If notification is received 10–14 business days in advance of course start date
- 50% refund – If notification is received 6–9 business days in advance of course start date
- No refund will be issued if notice is received 5 or fewer business days in advance of course start date

Substitutions may be made up to two business days prior to the course start date.

CANCELLATION BY BTEC

BTEC retains the right to cancel a professional development short course no less than 10 business days in advance of the scheduled course start date. Registrants will be notified by BTEC if a course is cancelled and will receive a full refund of registration fees paid. BTEC is not responsible for airfare penalties or other costs incurred due to cancellation.