



Registration Open for NBC2 Summer miniBIOMAN Workshops

In June 2018, NBC2 will host two miniBIOMAN Workshops for 2- and 4-year college faculty. Each mini-BIOMAN focuses on a specific area of biomanufacturing and includes advanced laboratory activities, lectures and industry guest speakers. The miniBIOMAN Workshop on **Downstream Processing of Monoclonal Antibodies (mAbs)** will be hosted by Dr. Lara Dowland at Mount Wachusett Community College in Gardner, MA on June 26-28. Participants will follow standard operating procedures (SOPs) and production batch records to perform each stage of the downstream process, including tangential flow filtration, Protein A affinity chromatography, and ELISA assays. The miniBIOMAN Workshop on **Incorporating Undergraduate Research in Process Development** will be hosted by Jim Hewlett at Finger Lakes Community College in Canandaigua, NY on June 25-26. This two-day workshop will model the process development early research phase in biofuel production, with a focus on incorporating undergraduate research avenues. Participants will consider multiple variables involved in cellulosic biofuel production in order to design a standard operating procedure (SOP) for obtaining optimized product output. They will also receive instruction on how to integrate undergraduate research initiatives into their existing biotechnology programs. At the conclusion of the mini-BIOMAN, participants will have a comprehensive, ready-to-insert curriculum module to utilize in their own classrooms. Curricular materials include PowerPoint slides and links to resources and references, as well as protocols and SOPs for hands-on activities.

A limited number of stipends covering hotel and travel expenses are available for participants.

Register now at biomanufacturing.org.



Sign –up for the NBC2 Instructor’s Portal at Biomanufacturing.org

New and seasoned biotechnology and biomanufacturing instructors can now access additional educational resources at biomanufacturing.org by signing up for the new NBC2 Instructors portal. This restricted area of the website houses resources to assist in building a robust and industry relevant biomanufacturing course. These include a *100-Question Biomanufacturing Exam*, *PowerPoint Lectures* that accompany each chapter of the Introduction to Biomanufacturing textbook and *Curriculum Modules* on stem cells, upstream processing and more. Sign up now at biomanufacturing.org.

