

# Biomanufacturing Online Graduate Certificate

For distance education students, the Online Biomanufacturing Graduate Certificate is an excellent option for gaining a BTEC credential without being onsite. The Online Biomanufacturing Graduate Certificate is only available to online students enrolled through the Engineering Online program([opens in a new window](#)).

Each certificate requires 12 hours of graduate coursework, which can be transferred to the Master of Biomanufacturing program.

## More Information

Online Biomanufacturing Graduate Certificate program website ([https://www.btec.ncsu.edu/academic/graduate/graduate\\_certificate.php](https://www.btec.ncsu.edu/academic/graduate/graduate_certificate.php))

## Admission requirements

To enroll in a BTEC certificate program, applicants must meet the following conditions:

1. Applicants must hold a bachelor's degree in science or an engineering discipline.
2. Applicants must have a minimum GPA of 3.0 or have completed a 500-level BTEC (BEC) course with a grade of B- or better.
3. Applicants must apply through the NC State Graduate School.

### Applicant Information

- **Delivery Method:** Online
- **Entrance Exam:** None
- **Interview Required:** None

## Application Deadlines

Please visit The Graduate School Application Deadlines (<https://grad.ncsu.edu/admissions/deadlines/>) page for more information.

## Plan Requirements

Code	Title	Hours
<b>Required Courses</b>		<b>12</b>
BEC 591	cGMP Biomanufacturing Operations	
BEC 575	Global Regulatory Affairs for Medical Products	
BEC 577	Advanced Biomanufacturing and Biocatalysis	
EGR 590	Special Topics in Engineering (Engineering Project Management)	
	or BUS 554 Project Management	
<b>Total Hours</b>		<b>12</b>