



Biotechnology - Improving Processes & Production

Could you be the next leader in Iowa's biotechnology businesses? Take an inside look at the processes and labs where magic is made with biotechnology right here in Iowa! This STEM event connects real applications to agriculture, food and natural resources standard BS.03.02.

Event Date & Time:

May 3, 2021

10:00 AM - 10:30 AM

Partners: Iowa Business Council and Cultivation Corridor

Event Components:

Engage with Industry Professionals to learn what Biotechnology in Agriculture looks like in Iowa.

Questions for Professionals:

- How have you seen biotechnology processes or products shift since you first started your career?
- What was the most rewarding project you were involved on? What role did you play?
- How is Iowa changing the landscape of biotechnology with agriculture?
- Were you involved in a project that didn't turn out the way you wanted? What happened as a result of the project not ending as intended?
- What influences major shifts in organizational goals or projects related to biotechnology products or processes?
- What classes should students take now to prepare them for studies in this field?
- Are there other emerging areas in agriculture that students should consider?

Service Area:

Agriculture

Audience:

9th - 12th Grade Agriculture Students

Students in grades 5-14 interested in careers in agriculture and biotechnology

State Standards Covered:

Agriculture, Food, and Natural Resources - Biotechnology Systems

- BS.03.02- Apply biotechnology principles, techniques and processes to enhance the production of food through the use of microorganisms and enzymes

Resources:

<https://openinnovation.corteva.com/multimedia/> - meet our scientists

Example Assessment:

Biotechnology Product Comparison Assignment

Date: _____

Student Name: _____

Instructions: Using the information presented in the panel, compare the different biotechnology products from different organizations. Utilize research from reliable Internet resources to supply additional information not provided in the presentation.

Company 1: _____ Company 2: _____

Product 1: _____ Product 2: _____

Compare *How are these biotech products similar?	Contrast *How are these biotech products different?

How has biotechnology improved agriculture in Iowa?

To further your learning about biotechnology in agriculture, review additional agriculture courses offered at your district or nearby community college. Talk with your school counselor or teacher to connect you with your regional Intermediary to schedule an industry tour or job shadow to learn more about biotechnology related to agriculture.