



**AGRICULTURAL EDUCATION  
LOCAL PROGRAM SUPPORT**  
A PROJECT OF FCAE



**Learning  
Technology  
Center**

**Date:** July 29, 2025

**Time:** 9 am-12 pm

**Host Site:** [Lincoln Land Community College](#)

**Address:** 5250 Shepherd Road, Springfield, IL 62794

[CAMPUS MAP](#)

**Title Workshop:** **FarmBeats for Students: Hands-On Precision Agriculture with micro:bit**  
Shared Materials Folder

Welcome & Introduction (15 min)

- Brief introduction to precision agriculture and why it matters
  - Overview of Microsoft FarmBeats for Students
  - Workshop objectives and what participants will take away
- Exploring FarmBeats: Curriculum & Hardware (30 min)
- Walkthrough of the FarmBeats for Students curriculum and learning progression
  - Overview of the micro:bit-based hardware kit and its capabilities
  - Discussion: How does this connect to ag education and current teaching practices?

Hands-On with FarmBeats Sensors & Data (45 min)

- Activity 1: Setting up and using micro:bit sensors to collect data
- Activity 2: Visualizing and analyzing data using the web-based FarmBeats platform
- Group discussion: How can students use this data to make decisions in agriculture?

Integrating FarmBeats into Your Classroom (45 min)

- Connecting FarmBeats activities to existing curriculum & standards
- Strategies for engaging students with real-world problem-solving
- Small-group discussion: How might you implement this in your own classroom?
- Troubleshooting & common challenges

Action Planning & Q&A (30 min)

- Teachers create an implementation plan (e.g., which activities to use, timing, modifications)
- Sharing ideas with peers
- Open Q&A session for troubleshooting and additional resources

Closing & Next Steps (15 min)

- Key takeaways & reflections
- Additional resources for support
- Feedback & wrap-up
- Questions