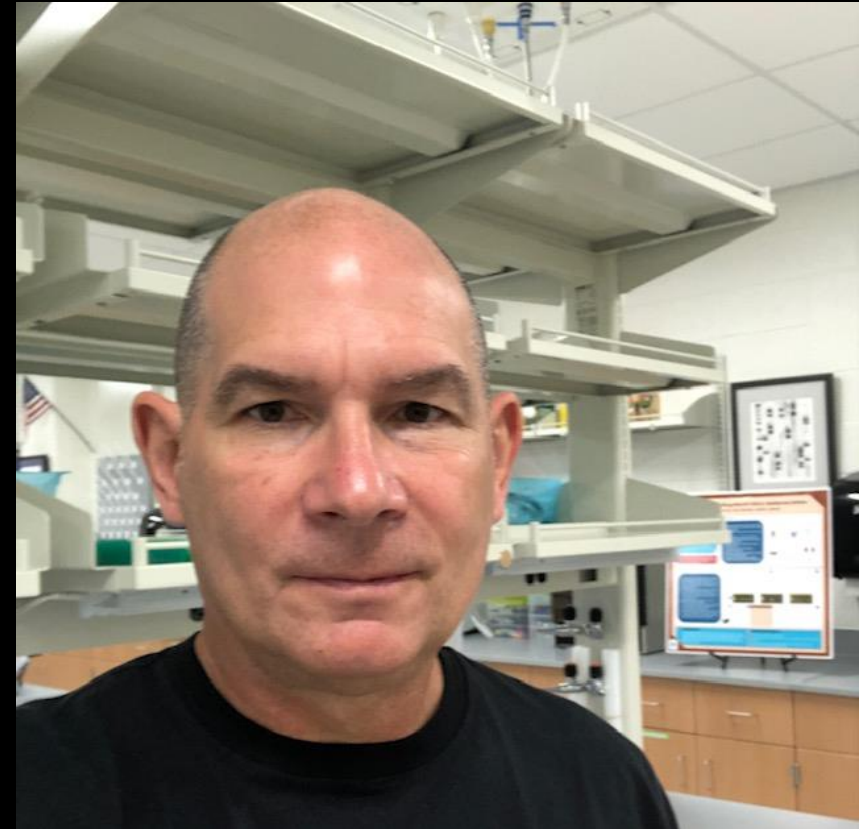


Biotechnology Research

Innovation Academy STEM High School 2026-2027

Welcome!

- My name is Bob Kuhn, and I have been teaching for over 25 years.
- I have been at IA since the opening, and I formerly taught at Centennial High School.
- I teach the CTAE Biotechnology Pathway as part of Health Sciences.



Biotechnology Research Fall Semester

- Students will identify a project that they want to build, either independently or guided by me.
- They develop the project from the ground up, submitting a proposal and budget.
- Once approved, they develop their experimental design and begin experimentation.

Biotechnology Research Spring Semester

- Students will complete their research and transition to data analysis.
- As the IA Showcase draws near, students will develop their poster and research paper.

Guest Speakers

- We will have 2-3 guest speakers per semester.
- Some of these include:
 - A human genetics scientist
 - A bioinformatics researcher
 - A synthetic biologist
 - A science communicator
 - A self-started biotech expert

Assessment

- In Biotech Research students will have initial scaffolding to help them develop their project. They will be given time to develop and work together.
- Assessment will come in the form of their lab notebook and initially, Canvas assignments as they move through checkpoints. I am acting more of a coach.
- Majors will include bigger parts like the research proposal, experimental design, poster and paper.
- Minors and practice will include smaller assignments, recitations, and guest speaker participation.

Expectations

- We are in the lab almost every week. Safety is the biggest expectation in the lab, followed by being prepared.
- Students need to understand that in order to do independent research, I have to rely on them to do their work when I am helping other students.
- Since they are in a third year class and are the most advanced, the expectation is that they demonstrate pathway skills and challenge themselves to do a project they can be satisfied with.

Communication

- Students are the first line of communication. They can reach me in person most days before school in room 223 or 224.
- Students and parents can email me at Kuhn@fultonschools.org
- I also have tutoring hours on all Flex Fridays before the first session.
- Please let me know if you have any questions or see the syllabus on your student's Canvas.