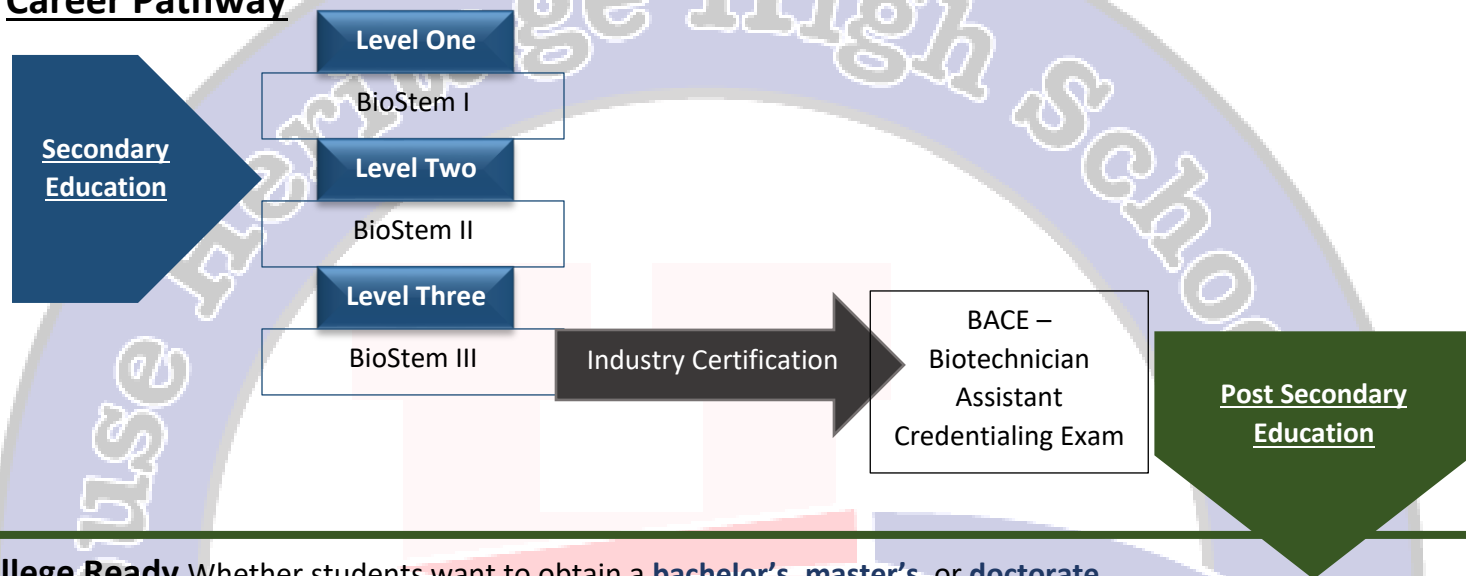


BioStem

Science, Technology, Engineering, and Mathematics

Program Description: The overall purpose of the BioSTEM program is to engage students in advanced laboratory activities and techniques that explore the dynamic field of biotechnology. Students will use the scientific method and laboratory procedures in research with diseases, immunizations, food, and forensics. Students will develop and test hypotheses, model solutions, and communicate results.

Career Pathway



College Ready Whether students want to obtain a **bachelor's, master's, or doctorate.**

- [Austin Peay State University](#) – Allied Health Sciences, Biology
- [Middle Tennessee State University](#) – Biochemistry, Biology
- [Tennessee State University](#) – Biology
- [Tennessee Technological University](#) – Marine Biology, Cellular and Molecular Biology
- [University of Tennessee](#) – Biochemistry, Microbiology, Biomedical Engineer

Career Opportunities

Most opportunities require a bachelor's or master's degree increasing to a doctorate in some cases. Fields associated with BioStem are unique and consist of laboratory research jobs across medical, agricultural, and engineering. Pay can range from \$40,000 to over \$100,000 per year with titles of Quality Assurance Specialist, Validation Specialist, Microbiologist, Immunologist, Laboratory Technician, Process Technician, Genetic Counselor and many more. This field of study is growing and can expect a surge as more research is invested by corporate companies with pay increases to follow due to the lack of qualified candidates.