

Project Title: Expanding the Data Analytics Technician Pipeline for High School Students to Facilitate Transfer into College and High Demand Jobs in Southwest Ohio

Goal: Sinclair Community College and partners submitted this proposal to develop a clear data analytics technician academic pathway for high school students in southwest Ohio to facilitate their transfer into college and their credential completion and transition into Big Data Careers.

Objectives:

1. Enhance and expand data literacy knowledge and skills for high school teachers and students through new teacher professional development and student experiential learning activities.
2. Develop a clear and articulated high school to postsecondary data analytics pathway in southwest Ohio.
3. Enhance postsecondary curriculum by infusing experiential learning and professional connection opportunities.

Deliverables:

1. **A new Data Literacy Foundations short-term postsecondary certificate** students can begin in high school to accelerate their completion of a Sinclair Data Analytics Associate degree.
2. **Three new college-level courses** designed for both high school and college students aligned to Sinclair certificates and degrees.
3. **Career awareness and academic modules for high school juniors and seniors** infused with experiential learning activities to increase interest in subject matter and data-related careers.
4. **Data competitions for high school and college students** to incite interest in data careers and to teach the life cycle of data using real-world data sets supplied by industry partners.
5. **Annual high school teacher workshop** to provide high school instructors information about Big Data careers and academic pathways.
6. **New Service-Learning projects** for college students involving experiential learning at non-profit organizations.
7. **College student participation in professional conferences** offering opportunities to learn from and connect with professionals in the field.

Partnerships:

Project partners include the Miami Valley Tech Prep Consortium serving approximately 40 high school locations in a ten-county area in Ohio, the Warren County Career Center and the Miami Valley Career Technology Center (large secondary career technical institutions), John Carroll University, and a group of industry partners and advisors.

Second year key activities:

- Pilot and revise the academic modules.
- Refine career awareness module.
- Develop three new courses with project service learning.
- Recruit high schools to pilot the modules and courses.
- Recruit high schools' teachers for second annual workshop training.
- Plan and collaborate with students with professional conferences.
- Plan and host Data Competition.

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