



Arkansas Data Analytics Teacher Alliance (AR-DATA) for 9-12th Grade Teachers

The University of Arkansas College of Engineering has received funding on a 3-year grant from the National Science Foundation. This new grant focuses directly on providing mathematics, computer science, and pre-engineering teachers with transformative research experiences thematically centered on data analytics, especially engineering applications towards smart and connected health, infrastructure, and community. Teachers who choose to participate in the AR-DATA program will develop, implement, and disseminate analytics learning modules suitable for high school curriculum. Specifically, AR-DATA participants will develop and promote modules to enhance current curriculum, guided by curriculum coaches and research mentors, to train the next-generation STEM workforce, reflecting state-of-the-art research on data analytics with applications in various engineering disciplines. AR-DATA participants will attain new knowledge of data analytics and engineering applications, gain a better understanding of the next-generation STEM workforce needs in data analytics, and learn innovative pedagogies and effective strategies from peers, mentors, and curriculum coaches. You can find more information about the program include previous projects at <https://ardata.uark.edu/>.

Program Details

- 6-Week Research Experience for Teachers (Summer 2022)
 - Dates: June 13 – July 22
 - Hybrid Program: Teachers can choose to participate in person or virtually. Virtual participants are encouraged to participate in facility tours and other key program events in person. Travel expenses will be reimbursed.
 - \$8,000 stipend provided
 - Up to \$1,200 for the supplies necessary to implement modules into their classrooms and consumable supplies needed during the summer experience
 - Apply for travel grants to attend the Arkansas Curriculum Conference or other professional conferences

Additional Commitments:

- Teachers must commit to actively participating in the program, including program assessment and reporting, for the full academic year barring unforeseen events (grade level changes, retirement, etc.)
- Participants will commit to a week-long orientation week with seminars, workshop, and panel discussion on data analytics, applications in engineering, and workforce development.
- Participants will work with their research mentors and develop learning modules in the summer with help from the curriculum coaching team.
- Participants will implement, revise, and disseminate the developed modules in the 2022-2023 academic year.

Interested in Participating? Please follow the link and complete the form.

<https://forms.uark.edu/xfp/form/552>