Georgia Institute of Technology

EYES on the Universe: STEM Connections #2

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This project will engage sixth grade mathematics and science teachers in deepening their content knowledge; will actively utilize cutting-edge technology; and will emphasize the “S,” “T,” “E,” and “M” in STEM. Fulton County Schools is the LEA, and the IHE is Georgia Tech. The Aloha Telescope will serve to stimulate teachers during this project, along with a field trip to Young Harris College’s Planetarium and Observatory. The project will begin March 1, 2017 and continue during the 2017–18 school year. Project goals are to increase:

- Participants’ STEM content knowledge pedagogical skills, focusing on the content described in the Mathematics Georgia Standards of Excellence (MGSE) and the revised Georgia Standards of Excellence (GSE).
- Participants’ comfort and confidence in using technology in a professional learning community and to enhance classroom practices as described in the International Society for Technology in Education (ISTE) Standards for Teachers, Characteristics of Science (GPS), and A Framework for K-12 Science Education.

Teachers will engage in appropriate pedagogy incorporating best practices. Science, math, and technology will be the foundation for all sessions. Content knowledge will be measured by comparing pre/post-test assessments. Participants will demonstrate increased comfort and confidence in incorporating technology through lesson implementations, use of The Aloha Telescope, and reflections. This project is new but is extremely similar to the PI’s currently funded ITQ grant.

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High Need LEA(s)
Fulton County