

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*¹.

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