

Georgia Institute of Technology

Renewal: The Summer Workshop in Marine Science (SWiMS) at Georgia Tech

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We propose a renewal of the *Summer Workshop in Marine Science (SWiMS)* at Georgia Tech. Georgia universities conduct cutting-edge scientific research on diverse marine topics, many of which are directly relevant to state and national educational standards, including topics of *Human Impacts on Earth Systems* and *Global Climate Change*. SWiMS uses Georgia marine science research to enhance standards in middle and high school Life and Earth Science education. Through lectures by faculty, discussion and lesson planning sessions, and hands-on lab exercises, and field exercises at the Marine Institute at Sapelo Island, the 5-day SWiMS course disseminates teaching modules developed around marine research by Georgia scientists. SWiMS modules consist of lesson plans and lab exercises that address topics such as ocean acidification, deadzones, food webs, coral reef decline, oil spills, and ocean salinity shifts in response to global change. SWiMS was run in 2015 and 2016 with unequivocal success. Of the 16 invited participant teachers in both years, 15-16 were in attendance for all 5 days, with 50% of these teachers representing high need local education agencies (LEAs). We hope to expand on this success in year 3 by reaching diverse educators and implementing new modules. SWiMS 2017 will be held at Georgia Tech June 19-23 and will target schools in high need LEAs of Fulton County and Clayton County (Elite Scholars Academy). Teachers will leave with enhanced content knowledge as well as lesson plans and schedules for module implementation and evaluation. Each participant will receive 5 PLU's and a \$500.00 stipend. Please see <https://swimsgatech.wordpress.com/> for full details on SWiMS.

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High Need LEA(s)
Elite Scholars Academy (Clayton County)
Fulton County