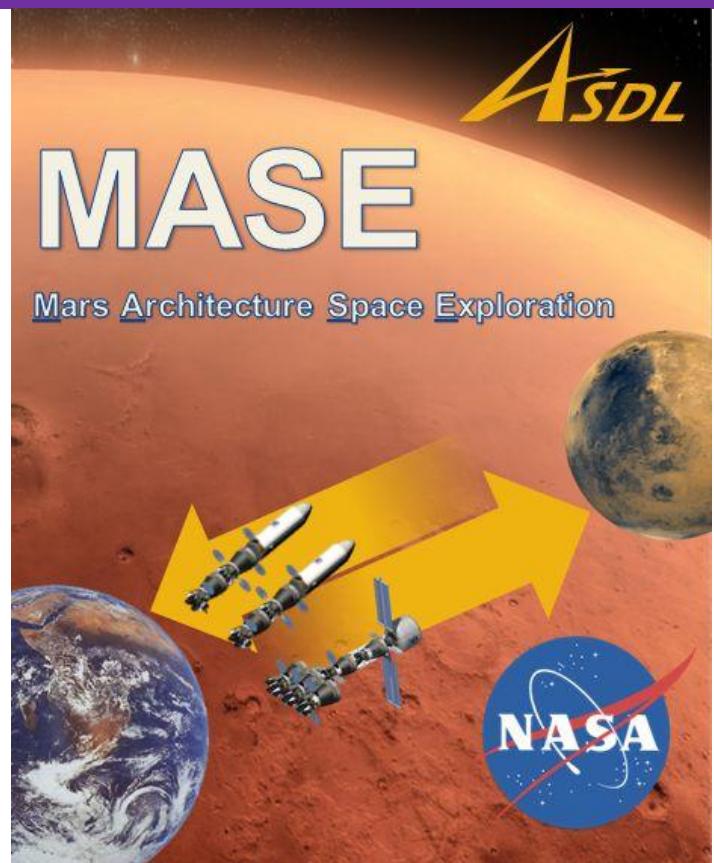


Sinead O'Sullivan

Research Assistant, Georgia Institute of Technology USA



Sinead O'Sullivan: BEng Aerospace Engineering, QUB 2011

Certificate of Space Studies, International Space University 2013

Masters degree in Aerospace Engineering, Georgia Institute of Technology 2013 - Present

I started my career working in finance as a trading programmer for Morgan Stanley in New York, and a Portfolio Analyst for a start-up bank in Dublin. I returned to engineering one year ago, moving to the Space sector working on a project with the Brazilian National Center for Space Research. This involved a study on Affordable Microsatellite-Based Internet Access and Environmental Monitoring (Project AMBIEnT), which will use satellites to prevent deforestation of the Amazon and allow access to tele-education and tele-medicine in Brazil. I am currently a Research Assistant at the Georgia Institute of Technology (USA), where I am a Project Manager for a NASA project on Mars missions looking at possible designs of future manned missions to Mars. As well as this, I am the President of the Marine Robotics Group, where we design, build and test autonomous systems for ocean exploration, to further develop technology for space. I am also a Research Fellow for the United States Center for Climate and Security. I am developing an international program between the United Nations Refugee Agency (UNHCR) and NASA to use space technologies like satellites to aid in humanitarian disasters, such as the Syrian crisis. I am involved in many STEM outreach projects and I am currently a mentor for Science, Technology and Engineering Pipeline (STEP) project at Georgia Tech where I have high school students working on my projects. I am also involved with the Foundation for International Space Education (FISE) where I travel to Houston to mentor/lecture at the United Space School near NASA's Johnson Space Center.

Engineering is about finding solutions to seemingly impossible problems. It is creative and imaginative, and often there is no "right answer" which makes it a very fun field to work in!

WOMEN IN ENGINEERING