



# Explore ASTRO

## Advanced Scientific Technologies for Realistic Opportunities

Join us for a high school challenge to celebrate innovativeness, creativity, art, sciences, and technology while solving real world problems.

Important Dates:           **Nov. 28, 2016** - Abstract  
                                      **Jan. 3, 2017** - Submit Presentation  
                                      **Jan. 14, 2017** - On Site Competition



For more information visit: <http://mae.rutgers.edu/events/astro-explore-2016>

Sponsored by Girls Connect from the Mechanical and Aerospace Engineering Department, Rutgers University



## **Advanced Scientific Technologies for Realistic Opportunities**

Our *Fall 2016 Explore ASTRO* requires exploring and analyzing real world problems that can be solved using engineering. The objective is to identify a real world problem that is apparent anywhere in the world which can be fixed with engineering and/or problem solving. The following proposal is an example of one such real world problem:

“Distribution of liquid supplies in disaster areas is very challenging. The packages have to be lightweight, small, and durable. Our *Fall 2016 ASTRO Explore* requires the development of a packaging system that holds a 250 ml of liquid that can withstand a 20 ft drop without breaking and or leaking. The package should be easy to open.”

Competition is open to NJ high school teams. Team composition: 4-6 students, of whom at least 50% are females. Each team must utilize artistic, engineering, and business aspect towards their project.

Important dates:

### ***November 28, 2016***

1. Team members and team logo
2. Abstract: 400 words description of plan and approach

### ***January 3, 2017***

Final presentation submitted to Rutgers via email

1. Artistic: marketing the project (artistic depictions, i.e., using concepts and ideas to arrive at a product)
2. Business: financial and social marketing

Conditions: team composed of 4-6 high school students of whom at least 50% are females.

All groups will be notified about their placement by January 6, 2017.

Rewards: The top 3 winners will receive a certificate from Rutgers University and monetary prizes. The 1<sup>st</sup> placement will get a trophy for their high school.

For more information please email: [ruastrochallenge@gmail.com](mailto:ruastrochallenge@gmail.com)

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