

# Challenge

## NASA Mission:

NASA is currently working on systems to take humans beyond Low Earth Orbit to explore the solar system. One of the destinations of interest is an asteroid. Asteroids are among the solar system's most primitive bodies and are interesting to scientists. A specific sample of interest are loosely adhered surface rocks called float samples. NASA needs a way to collect float samples without cross contamination between worksites.

**“Design and manufacture a device that enables an astronaut to obtain a core sample for loose regolith in microgravity.”**