BWSI 2023-2024 Build a CubeSat Challenge - volunteer roles

**Challenge Organizers:** responsible for organizing and running the Challenge
- ~5 hours/week from September 2023 to mid-April 2024
- Recruiting 1 to 2 volunteers each from AIAA, NSBE and SWE for this role

**Selection Committee members:**
- November 2023: 5-10 hours/week for 2 weeks in November 2023
- Recruiting 1 volunteer each from AIAA, NSBE and SWE

**Judging Committee members:**
- Selection Committee members can also be on the Judging Committee
- Week of March 4, 2024: ~10 hours for judging design review presentation submissions and select ~10 teams for in-person final presentations on April 13, 2024
- Week of April 1, 2024: ~10 hours, review submitted presentation material, submitted videos and select award winners in this category
- April 13, 2024 (Final Competition): 8 hours
- 15 volunteers will be recruited for this role

**Challenge technical mentors paired with student teams**
- From December 1, 2023 to April 13, 2024 (2-3 hours per week)
- Each mentor is assigned to 2 student teams
- Meet bi-weekly with assigned student teams
- Getting ready: October and November, 2023 (less than 5 hours/week)
  - Go through Build a CubeSat online course
- 25 mentors will be selected for this role

**Technical qualifications for Challenge Technical Mentors:**
Background in Aerospace Engineering, Electrical Engineering, Computer Science, Physics, Mathematics or other technical fields, coupled with the demonstrated ability to apply talents to new fields.
- Demonstrated excellence in communication skills and the ability to convey technical concepts in a concise manner to a wide spectrum of audiences
- Interest in CubeSat systems and subsystems and educational instruction

**Desired Skills:**
- Experience programming in Python
- Familiarity with Linux operating systems
- Exposure to image processing fundamentals and OpenCV
- Familiarity with systems engineering principles
- Experience working with hardware

**Technical qualifications for Judging Committee members:**

Background in Aerospace Engineering, Electrical Engineering, Computer Science, Physics, Mathematics or other technical fields.
- Familiarity with Aerospace systems
- Interest in CubeSat systems and subsystems
- Familiarity with systems engineering principles

**For technical mentors and judging committee members - you agree to:**
Commit the time for the role as described above
Attend technical mentor training (for technical mentors)
Complete online BWSI Build a CubeSat course (for technical mentors)
Willing to go through the CORI process through MIT
Complete on-line training on Working with Minors
Agree to Code-of-Conduct policies
Sign the photo-video and liability release form