Budget and Assessment for grant proposal

The goals of this program are two-fold – one that the participating students benefit in the area of STEM, and one that CBI furthers its ability to offer STEM programs related to sailing, our core activity.

To assess the effectiveness of the program with students we will collect program data and ask students to complete a student survey:

Program data

- How many individual students participated the course?
- How many applied to take the course?
- Were we able to provide all students with the materials required to effectively participate?
- Was the program mentioned in local media?
- How many adult staff went through the provided training to use the tools?

Student survey

- How has your understanding of technical concepts in robotics changed? (1 decrease, same, increase 5)
- How has your interest in computer programming changed? (1 less, same, more 5)
- How has your interest in pursuing a technical field changed? (1 decrease, same, increase 5)
- Are you likely/planning to take a technology/engineering class at your school if these classes are offered? (1 not at all likely---very likely 5)
- How has your knowledge of sailing principles changed? (1 decrease, same, increase 5)
- Would you pursue courses offered at CBI? (1 not at all likely---very likely 5)

Budget:

$3000 for 5 instrumented Sailboats and electronics

- $350 RC model boat such as ProBoat Ragazza
- $250 on-board electronics: computers (Arduino), sensors (GPS, Compass, wind direction encoder), interconnect wiring, batteries

$2000 for 5 laptop computers (1 for each boat station)

$1500 development costs for materials, assembly

$1000 overhead costs for CBI

Total: $7500