

**Name of Project or Group:**

Carleton Troitsky Bridge Building Team

**Name of Applicant:**

Hayley Platt

**Position of Applicant:**

Admiral, Logistics and Finance

**Email of Applicant:**

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**How many Undergraduate Engineering students are involved? Specify Departments and/or programs if possible.**

40, of which the majority are from the faculty of the department of civil and environmental engineering.

**Description of Proposal:**

This semester the Carleton Troitsky Bridge Team is requesting funding for the materials we use to construct the bridges. Each year teams start fresh with new wooden popsicle sticks and white glue. This is our biggest expense other than the fee for attending the competition. In building out 6 bridges, we use close to 100 000 popsicle sticks and 6 jugs of white glue. As we have 40 000 sticks remaining from last year, we required an additional 60 000 sticks along with 6 jugs of white glue (one per team).

**Proposal Benefits:**

The Troitsky Bridge Building competition is held at Concordia at the beginning of March every year. Teams are tasked to build a bridge out of nothing but popsicle sticks, white glue, dental floss, and toothpicks. These bridges must have a maximum span of 1.3m and a maximum height of 0.600m. This competition has participants work with their team to design, build, and finally test their designs in Montreal.

Carleton Troitsky Bridge Team is requesting funding for the materials we use to construct the bridges. These materials will allow us to participate at the 31st Troitsky Bridge Building Competition, and will allow our team members to experience and participate in the entire engineering process of conceptualization, design, construction and testing.

**Estimated Equipment Lifespan:**

We estimate that the requested materials will be used completely for the construction of bridges. Any surplus will be held and used for the 2016 competition.

**Implementation Schedule:**

Small Bridge Competition: November 15  
Popsicle stick sorting: November 22  
Team Selection: December 1  
Stick cutting: Over Christmas break  
Laminating popsicle sticks into blocks: Late January  
Cutting of bridge members out of blocks: Early February  
Participate at Troitsky Competition: Early March

**Cost Breakdown: Item, Any funding from other sources, Multiple funding options:**

Popsicle sticks:  
(\$7.46 per box \* 60 required boxes) + 13% tax = \$505.79

White Glue:  
(\$27.79 per jug \* 6 required jugs) + 13% tax = \$188.40

Total Requested:  $\$505.79 + 188.40 = \$694.18$

Quotes for these prices are included in an attachement