

# SO YOU THINK YOU CAN STEAM

SCIENCE • TECHNOLOGY • ENGINEERING • ART • MATH



## What is So You Think You Can STEAM?

*So You Think You Can STEAM* is a scholarship competition at Lincoln Children's Museum centered around a STEAM based project for students in grades 4 - 12. There are two separate rounds, plus an application phase. Those selected from the applications will present their projects at Lincoln Children's Museum on Sunday, June 2. Winners from round 1 will be awarded up to \$200 each to help fund additional elements of their project and will be paired with a mentor in their field to guide them on the project. The second round will occur on June 30, and winner(s) will be awarded scholarships (awarded at judge's discretion) from LI-COR Biosciences, Lincoln Electric System, University of Nebraska-Lincoln College of Engineering, and Bio Nebraska Life Sciences.

## Requirements:

Each participant must present a project that falls into one of the following five project categories:

- Experiment- An experiment can be a test made to demonstrate a known scientific fact or it can also be a test to determine if a hypothesis is accurate.
- Model- A model is a small object usually built to scale that represents some already existing object.
- Demonstration- A demonstration is an illustration or explanation of a scientific principal that shows how and why something works.
- Collection- A collection is a grouping or gathering of various objects that must be scientifically oriented and show that you have learned something through the process of collecting and categorizing.
- Invention- An invention is a new device or process used to improve conditions, solve problems or to fill needs. Inventions can be completely new ideas or improvements on something that already exists today.

Projects must also be regarding topics in one of the STEAM fields of study (Science, Technology, Engineering, Arts, or Math). Your project must include a three-sided display that gives viewers an overview of the topic under investigation. This display will be an overview of what you found out as a result of your investigation. It will have a title, a summary of your most important information, and pictures, graphs, charts, and/or drawings to show what you did and what you learned. Your project must also include an experiment, model, demonstration, collection, or invention which is exhibited on the table in front of your display.

You will be required to give a two-minute oral presentation about your project to judges and guests. You will need to explain what you have done and what you have learned as a result of your investigation, and how you plan to improve the project if provided a mentor and funding for the second round.

## APPLICATION

**Application Due Date: April 30, 2019** Must be returned to Lincoln Children's Museum by 5 pm on this day. Applications can be emailed to [lbartlett@lincolnchildrensmuseum.org](mailto:lbartlett@lincolnchildrensmuseum.org), mailed to our address or dropped off at the Welcome Desk during open hours.

### Contact Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

School: \_\_\_\_\_ Grade: \_\_\_\_\_

Field of Study (circle one):     Science     Technology     Engineering     Art     Math

Title of Project: \_\_\_\_\_

Brief Description of Project:

---

---

---

Display Requirements (water source, electrical outlets, flat surface, tables etc.):

---

---

---

---

Set Up Requirements:

---

---

---

---

**Please answer the following questions about your project (answers should fill no more than 2 pages total, typed, single-spaced):**

What intrigues you most about your field of study?

---

---

---

---

---

In what ways do you plan to further your education in this field of study?

---

---

---

---

---

What impact do you see yourself having on your local community through this project?

---

---

---

---

---

What inspires you to work towards your goals?

---

---

---

---

---

If given funding, how would you improve your project between rounds?

---

---

---

---

---

**I am available for the two dates (June 2 and June 30), should I be chosen for any or all rounds:**

---

Applicant signature

---

Parent/Guardian signature

*(Please attach any further documentation you feel would enhance your application)*