Come together with high school students from across Lincoln to design, build, market, test, launch, track, and recover a near-space satellite set to launch in April 2020. This isn't only for students interested in traditional STEM careers, everyone will find something to do on this team of inspired space entrepreneurs! Only 30 students will be chosen for this special opportunity to meet and work with coaches from NASA and other commercial space agencies.

Team members should plan to commit to 3 meetings each month from kick-off to post-mission (December to May) – 2 meetings with the full project team and 1 with their sub team (virtually or in-person). Individual members may also have tasks to follow up on in between meetings.

Application deadline is November 15, 2019.

Please complete your application online at:

https://www.leadupus.org/satellite-application/

Or mail your completed paper application to:

Lead Up

c/o Lynn Shumake

3001 Agate Ct

Lincoln, NE 68516

Name: _____ E-mail / Phone #: _____

What high school do you attend? _____

What grade are you in? Freshman Sophomore Junior Senior

What classes that you've taken have been most interesting and enjoyable to you?

Why?

We'll be using the traditional NASA project cycle to carry out this special mission. This means that you will learn about each piece of the project before splitting up into subteams to carry out your team's part of the mission. The subteams are Payload Scientist, Satellite Design, Mission Control, and External Relations.

Read more about each subteam below, then rank your interest in each of them with 1 being the subteam you want to join the most and 4 being the subteam you're least interested in.

__ Payload Scientist

For students who… enjoy science, research, and designing experiments from beginning to end.

With the help of experts, you will be focused on the mission payload. This team sets up the experiment(s) that will be performed on the satellite's payload which is a data-gathering instrument provided by Li-Cor. You will decide what data you want to gather, hypothesize what might happen and, upon recovery of the satellite, download the data and interpret the results.

__ Satellite Design

For students who… are interested in learning about software coding, engineering, and aerospace technology in a hands-on way.

Alongside experts, you will build the satellite and develop the software it needs to work. You will also test the satellite to make sure it launches and runs properly.

__ Mission Control

For students who… really love to organize and manage projects, and also have strong communication and leadership skills.

As a part of mission control you'll be a central coordinator of the entire project. This means managing the timeline from start to finish, and making sure the work of each subteam fits together. You will also organize ground activities like filing a flight plan and securing flight authorization from the FAA (Federal Aviation Administration), anticipating safety needs during launch and recovery.

__ External Relations

For students who… are positive, high energy, creative, and strong communicators.

As a part of the external relations team you will work to inform, inspire and engage the public during the project. This may include public presentations and events, social media, web development, and news conferences. External relations will also work with participating speakers and coaches from NASA and commercial space agencies.

Why does the subteam you ranked as #1 interest you? Why would you be a good fit for that team?

Why does the subteam you ranked as #2 interest you? Why would you be a good fit for that team?

This mission requires you to work as part of a team. What do you feel you bring to a team environment or group situation?

Describe a time when you were successful as a team leader. What do you think made you a successful leader?

Describe a time when you were effective as a follower. What do you think made you an effective follower/team member?

What do you hope to learn and gain by being a part of this project?

Please provide the name and email of a teacher, mentor, coach or supervisor who can tell us more about the skills and talents you would bring to this project:

Regular attendance is critical to the success of this project. If selected, you will be expected, where reasonably possible, to arrange your schedule so that you may participate fully. Team members who are not present for two consecutive working sessions without advanced notice will be considered inactive and must request to be reinstated or lose their spot on the project.

☐ Student: I understand my attendance is required and agree to coordinate any absences in advance.

Student signature: _____ Date: _____

☐ Parent/Guardian: I understand that my student's attendance is required and two consecutive absences without advance notice will result in an inactive status.

Parent signature: _____

E-mail/Phone #: _____