**High School Students United with NASA to Create Hardware**

**(HUNCH)**

**Statement of Work**

The mission of the HUNCH program is to empower and inspire students through a Project-Based, Student centric, S.T.E.M. Learning program where students learn 21st-century skills and have the opportunity to launch their careers through participation in the design and fabrication of real-world valued products for NASA.

A review process and timeline are in place to allow prospective schools to apply for admittance to the HUNCH program. School applications will be reviewed both at mid-year and the beginning of the School year, depending on volume.

HUNCH projects are divided into the following programs:

* Precision Machining involves students using CAD and CNC machines to fabricate both training and flight hardware.
* Flight Configuration involves students taking identified projects and creating flight level drawings to be used in the manufacture of the project.
* Soft Goods Design & Fabrication involves students sewing products for both flight and training
* Design & Prototyping involves students designing and fabricating products for space
* Health and Biomedical Science involves students designing solutions to different health and medical needs.
* Culinary and Nutritional Science involves students creating entrees for astronauts aboard the ISS.
* Communication involves students making videos about NASA for Public Affairs presence.

**School Information**

( Please Print)

Name of Teacher applying: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Industry experience: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of years with this experience?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone number (\_\_\_) \_\_\_-\_\_\_\_ e Mail:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of School \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ City: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State: \_\_\_\_\_\_\_\_\_\_

Main Phone number (\_\_\_) \_\_\_-\_\_\_\_

School principal or Head of School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What type of school:

\_\_\_\_Public School

\_\_\_\_ Private School

\_\_\_\_ Home School

\_\_\_\_ Career and Technical School

\_\_\_\_ Other

Name of School Lead, Superintendent or CATE/CTE Director: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ City: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State: \_\_\_\_\_\_\_\_\_\_

Phone number (\_\_\_) \_\_\_-\_\_\_\_ .

Title of the course or courses or After School Program proposed to be involved in **NASA HUNCH**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The approximate number of student participants and their grade levels

Grade Level Number of Students Grade Level Number of Students

1st \_\_\_\_\_\_\_\_\_ 2nd \_\_\_\_\_\_\_\_\_\_ 3rd \_\_\_\_\_\_\_\_\_\_ 4th \_\_\_\_\_\_\_\_\_\_\_\_

5th \_\_\_\_\_\_\_\_\_\_ 6th \_\_\_\_\_\_\_\_\_\_\_\_\_ 7th \_\_\_\_\_\_\_\_\_\_\_ 8th \_\_\_\_\_\_\_\_\_\_\_

9th \_\_\_\_\_\_\_\_ 10th \_\_\_\_\_\_\_\_ 11th\_\_\_\_\_\_\_\_\_\_\_ 12th \_\_\_\_\_\_\_\_\_\_\_\_

11th \_\_\_\_\_\_\_\_ 12th \_\_\_\_\_\_\_\_

NA \_\_\_\_\_\_\_\_

Number of high schools in your district ( or School if not part of a District). \_\_\_\_\_\_

Number of (K-12) in your district ( or School if not part of a District). \_\_\_\_\_\_

How many schools feed into your school if this is a Career and Technical School? \_\_\_\_\_\_\_\_\_\_

Names of counties that are in your school district? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Facilities/Equipment**

Description of classroom facilities where the HUNCH activity will take place

Standard 750 Sq Ft Classroom (\_\_ ) or other Describe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Description of equipment available for the HUNCH activity:**

**Precision Machining Equipment:**

Make -

Model-

Type-

Work envelope-

How many-

Other machining equipment-

**Additive Manufacturing (3D printing) Equipment available:**

Make -

Model-

Type-

Print media type capability- (example, ABS, ONYX, ULTEM, PLA)

Work envelope-

How many-

Other Additive Manufacturing equipment-

**Flight Configuration Equipment**

CAD Software Used-

Version-

Ability to produce 3D printed prototypes- (Yes/No)

Cloud storage / sharing site- (Yes/No)

If Yes, please identify  the online storage-

**Industrial / Commercial Sewing Equipment (Softgoods)**

Make-

Model-

Type-

How many-

Other sewing equipment-

**Computer/Programming Equipment:**

Computers, software, and capabilities of students (example: PC with Solid Works and

students know some programming). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Plan Type ( One Form per Program )**

What project(s) does the school want to perform?

A-Design and Prototype (\_\_)

B- Culinary and Nutritional Science (\_\_)

C- Health and Biomedical Science (\_\_)

D-Communications/Video (\_\_)

E-Precision Machining (\_\_)

F- Flight Configuration (\_)

G Additive Manufacturing (\_\_)

H-Soft Goods Design & Fabrication (\_\_)

Description on how the HUNCH program will be incorporated into your curriculum (example: Students

will work on the HUNCH project on a class schedule(\_\_ ) or after school (\_\_ ) and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Length of time per week on HUNCH program? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is your school a Title 1 School? Yes (\_\_) or No (\_\_)

What is the percent of underrepresented students expected to join your classes? \_\_\_\_\_\_\_

What is the percent of Females expected to join your classes? \_\_\_\_\_\_\_

How many of your students are on Lunch Programs? \_\_\_\_\_\_\_

**Please email your Statement of Work Form to:**

**JSC-HUNCH@mail.nasa.gov**

**and**

**Copy local Mentor**