UNIVERSITY CONSORTIUM FOR APPLIED HYPERSONICS

University Consortium for Applied Hypersonics:

SUPPLEMENTAL OPPORTUNITY

UNDERGRADUATE RESEARCH PROJECTS ALIGNED TO FACULTY RESEARCH

Project Call Release Date	March 25, 2022
Proposal Submission Deadline	April 22, 2022 (5pm CT)
Anticipated Award Notifications	May 15, 2022
Anticipate Project Start Date	June 13, 2022
Period of Performance	Eight weeks
Project Ceiling	$15,000 per award

Description: The Joint Hypersonic Transition Office (JHTO), in partnership with Texas A&M Engineering Experiment Station (TEES) and University Consortium for Applied Hypersonics (UCAH), is soliciting proposals supporting summer undergraduate research project opportunities in support of the Department of Defense (DoD) workforce development needs in hypersonic research and technology. Awards are limited to existing UCAH Project Sub-Agreement (PSA) holders and will be administered as supplemental modification.

JHTO/UCAH is excited about the research opportunities we have already funded through UCAH and also looking forward to seeing the inclusion of students and post docs in your research that is sure to help the pipeline of qualified workforce in this important area for DoD.

To accelerate the pipeline of news students, JHTO has identified additional projects to include undergraduate students in the current plans you have for research.

We are looking for your help to find promising undergraduate students. If you know of an undergraduate student entering their junior and senior years of study, we would like you to help identify them for support that will help prepare them for a future in hypersonics.

Applicant Eligibility: In order for a UCAH PSA awardee to submit a proposal, they must identify undergraduate student(s) enrolled at a UCAH Consortium Member university and connect to a university professor which currently holds a PSA or subsequent subaward, as a part of the TEES/JHTO-RPP-2020-001 or TEES/JHTO-RPP-2021-001 project awards. Individuals supported by this Sub-Agreement modification as a result of this process must be United States (U.S.) citizens prior to award and approved consortium partipants.

Expectations: It is expected that over an eight-week term in the summer, the proposed student(s) will:

1. Participate in the research of an on-going UCAH PSA award (analysis, experiments, summary reporting).

2. Present a research poster summarizing how the current PSA award will enhance the future of hypersonics, which will then be displayed at the UCAH Fall Forum 2022.

3. Travel to and participate in the UCAH-sponsored activity during the summer at the American

TEXAS A&M ENGINEERING EXPERIMENT STATION

Institute of Aeronautics and Astronautics (AIAA) Aviation Forum in Chicago, Illinois.

Selected projects will *only* be available to current PSA award holder(s), who propose undergraduate student(s) who, in the judgment of the JHTO, show effective integration with the existing UCAH project(s) and efforts based on the proposal. Proposals will be evaluated against the stated criteria below:

a. Relevance of the proposed project to the current PSA award
b. Proposed price
c. UCAH consortium membership

Proposals should include:

Cover Page. The Cover page should include:

a. Project Title
b. Title and award number for current UCAH award
c. Applicant Organization
d. Primary Technical Point of Contact (POC), including name, address, phone and email contact information
e. Primary Business POC, including name, address, phone and email contact information
f. Total price
g. Date of Submission

Section I: Student Research Plan (2 pages maximum)

Description of proposed student research and contribution to workforce benefits. Proposal will include a plan for the students to include how the undergraduate student will engage in the currently funded research project.

Section II: Undergraduate Personnel (1 page maximum)

a   A one-page resume should be included

Section III: Pricing

The Price Section shall provide sufficient detail to substantiate that the overall proposed price is realistic, reasonable, complete for the work proposed, and reflects the best price for the request for prototype proposal (RPP). The Pricing Section shall also include a narrative explanation of proposed prices.

a. Labor Rates: Provide the basis for which the estimated total labor hours were calculated, including estimated rates and hours.
b. Fringe Benefits: The proposal should show the rates and calculation of the costs.
c. Travel: The proposed travel cost should include the following for each trip: the purpose of the trip, origin and destination if known, approximate duration, the number of travelers, and the estimated cost per trip must be justified based on the organizations historical average cost per trip or other reasonable basis for estimation. Such estimates and the resultant costs claimed must conform to the applicable Federal cost principals. Proposed travel should include funds to attend the UCAH sponsored event at the AIAA Aviation conference in Chicago, Illinois in June 2022.
d. Materials & Supplies: Provide a list of the materials/equipment required to meet the technical

approach and the estimated cost, such as textbooks. If research materials are required they should be specific to the student's work, not general to the project, and clearly defined in the budget justification.

e. Other Direct Costs – Provide an itemized list of all remaining proposed other direct costs, such as tuition, housing, laboratory fees, report and publication costs, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).

Submission Instructions: Proposal submission will be conducted utilizing the UCAH website (see https://hypersonics.tamu.edu). Proposals will be accepted through April 15, 2022. The portal is the single point for submission.

Proposal Selection: Upon selection, TEES will modify the existing PSA award(s) to include the price and funding to support this project. Funding is intended for the individual project, and will not be pooled or sub-divided.