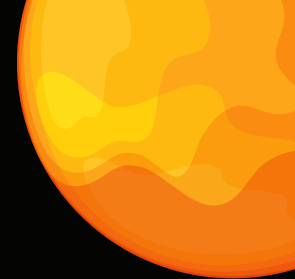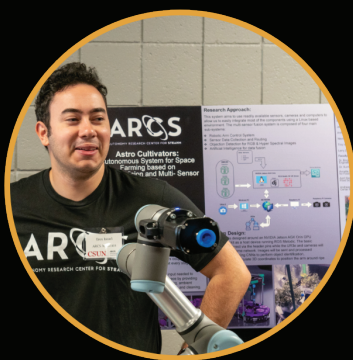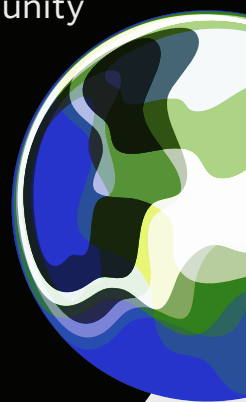# BRIDGE
美 桥 国 际

PRE-COLLEGE ENRICHMENT FOR STEAHM-2023 SUMMER PROGRAM

Ready To Engage?

4 WEEK PROGRAM • **MONDAY TO FRIDAY** • **9AM TO 3PM** • **JUN 20 TO JUL 14**

We are a university research center that offers Shadow Program, a unique opportunity for high school students to engage in hands-on research and gain exposure to cutting-edge advancement in STEAHM (Science, Technology and Engineering, Entrepreneurship and business, Arts, Humanities, and mathematics) through projects that help address real-world challenges such as putting the first woman and first person of color on the moon, growing foods for astronauts in space, and creating a zero-waste society.
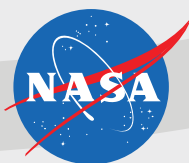
LIMITED TO A MAX OF 10 SEATS!
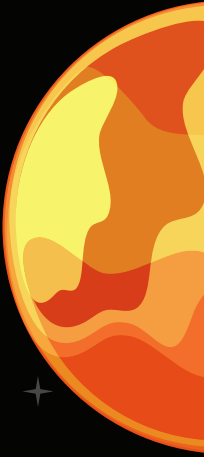**Deadline to Register: May 31, 2023**
https://arcs.center/arcs-summer-program/

CSUN   **NASA**   **JPL**

What Will You Learn:

- Unique convergence (transdisciplinary) research experience in emerging STEAHM fields.
- Communication skills for teamwork and public speaking, and in different disciplines.
- Rapid prototyping and project management.
- Skills of literature review and R&D mindset.
- Hands-on experience on practical NASA-related projects.
- Knowledge and skills in AI, robotics, 3D printing, Python programming, machine vision, data analytics, multi-sensor fusion, cloud computing, edge computing, Arduino, Raspberry Pi, Nvidia Jetson Orin.

What Will You Achieve

- Certificate of completion
- Selected for Summer Competition Award
- Selected for ARCS professors' recommendation letter for college application
- The professors' recommendation for a continued shadow program
- Selected symposium oral and poster presentation for a continued shadow program
- Potential co-author on peer-reviewed journal papers and international conference proceedings for a continued shadow program

Projects To Join

1. Artemis Mission - Project Leader – Professor Amiel Hartman
2. Astro Cultivators: Autonomous Growth System for Space Farming - Project Leader – Dr. Li
3. Workers and Technology Together (WATT) - Project Leader – Dr. Eugene Tseng

For more information about the research projects, please visit: **https://arcs.center/research-areas/**

WE HOPE TO SEE YOU THIS SUMMER!

ARCS
AUTONOMY RESEARCH CENTER FOR **STEAHM**

The program is administered by Bridge, and the curriculum is provided by Bridge University Partner Autonomy Research Center for STEAHM.