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**Research Experience for Undergraduates (REU)**

# NSF ENBP-AE, REU & NASA BP-AE REU Application

**Dept. of Mechanical Engineering**

**FAMU-FSU College of Engineering**

## Application Form

## Program Information

## The joint REU program is sponsored by NSF INCLUDES, NSF REU, and NASA MUREP programs. Its goal is to provide undergraduate students in mechanical engineering and related fields an opportunity to participate in ongoing active research programs including development of *multi-modal robots, active flow control, sensors and actuators, smart materials, high-speed aerodynamics, hypersonic flows*, etc.. The multidisciplinary nature of these projects will engage students in cross-cutting technologies by inspiring the integration and synthesis of original ideas and facilitating a better understanding of engineering design at the system level. Working closely with faculty and graduate students, the participants will gain hands-on experience and higher-level learning skills through other educational and professional development activities.

## The program is designed for students who have completed their sophomore/junior years in engineering or related fields. Women, underrepresented minorities, and students from colleges and universities without significant research opportunities are encouraged to apply. Applicants are expected to have a GPA of 2.9 or higher and must be citizens of the US. Applications are due March 25, 2024. Prospective students should download and complete the REU Application. Applicants must also provide a resume, a statement of research/career interests (500 words max), and a copy of your unofficial electronic transcripts by:

**Hand delivering:**

Aeropropulsion, Mechatronics and Energy Center

Room 104, 2003 Levy Ave.

Tallahassee, FL 32310

**OR email**: [shih@eng.famu.fsu.edu](mailto:shih@eng.famu.fsu.edu)

### Important Dates

**Program Period:** 10 weeks starting June 3 until August 9 (approximate).

## 

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| Applicant Information | | | | | | | | | | | | | | | | | | |
| Full Name: | |  | | | |  | | | | |  | | | Date: | |  | | |
| Last | | | | | | First | | | | | M.I. | | | | | | | |
| Address: | |  | | | | | | | | |  | | | | | | | |
| Street Address | | | | | | | | | | | Apartment/Unit # | | | | | | | |
|  | |  | | | | | | | | |  | | | |  | | | |
| City | | | | | | | | | | | State | | | | ZIP Code | | | |
| Phone: | (     ) | | | | | | E-mail Address: | | |  | | | | | | | | |
| Are you a citizen of the United States? | | | | | YES | NO | If no, are you a permanent resident of U.S.? | | | | | | | | | | YES | NO |
| Note: The following demographic questions are optional for program tracking purpose | | | | | | | | | | | | | | | | | | |
| M F White African American Hispanic/Latino Asian-Pacific Islander Native American  Gender:             Ethnicity/Race: | | | | | | | | | | | | | | | | | | |
| Education | | | | | | | | | | | | | | | | | | |
| Present College/University: | | |  | | | | | | | | | | | | | | | |
| Major Field: | | |  | | | | | | | | | | | | | | | |
| Academic Year: | | |  | | | | Expected graduation date | | | | |  | | | | | | |
| Overall GPA | | |  | | | | | | | | | | | | | | | |
| Academic/Career Objectives: | | |  | | | | | | | | | | | | | | | |
| Plan after graduation (industry, research labs, graduate school, etc..) | | |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
| References | | | | | | | | | | | | | | | | | | |
| Please list two professional references so we can contact them for more information about your application. | | | | | | | | | | | | | | | | | | |
| Full Name: | | |  | | | | | | Relationship: | | | |  | | | | | |
| Affiliation: | | |  | | | | | | Phone: | | | | (     ) | | | | | |
| Email Address: | | |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
| Full Name: | | |  | | | | | | Relationship: | | | |  | | | | | |
| Affiliation: | | |  | | | | | | Phone: | | | | (     ) | | | | | |
| Email Address: | | |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
| Research/Professional Experience | | | | | | | | | | | | | | | | | | |
| Have you participated in research program(s) in the past? (optional but might help us to assign projects & mentors) | | | | | | | | | | | | | | | | | | |
| When: | | |  | | | | | | | | | | | | | | | |
| Where: | | |  | | | | | | | | | | | | | | | |
| Topics/Activities: | | |  | | | | | | | | | | | | | | | |
| Statement of research interests and career plan after graduation (work, graduate schools, etc..)  Also list other relevant professional activities (organization leadership, teaching assistantship, competition events, co-authorship of scientific articles, honors/awards, etc..) | | | | | | | | | | | | | | | | | | |
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| Research Interests | | | | | | | | | | | | | | | | | | |
| Topics (Check up to three interested topics) | | | | | | | | | | | | | | | | | | |
| **Supersonic Flows** | | | | Active Materials | | | | **Flow Control** | | | | | | Instrumentation | | | | |
| **Robotics** | | | | Controls | | | | Model/Simulation | | | | | | Thermal/Fluids | | | | |
| **Computational Fluid Dynamics** | | | | Tribology/Materials | | | | Wind Tunnel Testing | | | | | | Flow Visualization | | | | |

**Note: Other research interests can be elaborated in the statement of research interests**