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

FAMU-FSU College of Engineering

INCLUDES National Network
Broadening Participation, Expanding Opportunities in STEM

Research Experience for Undergraduates (REU)
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 14, 2025**. 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

Program Period: 10 weeks starting May 27 until August 1 (approximate).

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

Gender:	M	F	Ethnicity/Race:	White	African American	Hispanic/Latino	Asian-Pacific Islander	Native American

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..)

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**

☐ **HI-POWER at Ames National Laboratory: Mechanics, Materials, and Manufacturing for Extreme Environments**

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