APPLICATION IS OPEN

Application details listed on next page

JOIN THE RESEARCH TEAM AT CISTAR™ THIS SUMMER!

Prepare to be an innovative leader in the global energy economy by developing your skills as a researcher in our summer program

PROGRAM DETAILS :

- **Ten-week session at Purdue University, May 22, 2023 - August 2, 2023**
- **$6,000 stipend**
- **Travel and housing provided**

RESEARCH PROJECTS:

- **Synthesis of tailored carbon supports for non-oxidative methane conversion**
- **Geometry Optimization for Electrical Dehydrogenation Reactor**
- **Synthesis of zeolite catalysts with tailored diffusion properties**
- **Integrated Energy Systems Planning**
- **Development of new CISTAR catalysts for production of fuels**

2023 RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) PROGRAM

AT PURDUE UNIVERSITY

The CISTAR REU program and Purdue Summer Undergraduate Research Fellowship (SURF) program have partnered to provide a hands-on research experience for undergraduate students from other institutions. This program is designed to stimulate interest in advanced education and research careers. CISTAR/SURF will match undergraduates with a faculty member and graduate student mentor who will then introduce them to the research tools used on the cutting edges of science, engineering, and technology.

DETAILS ABOUT THIS COMPETITIVE FELLOWSHIP:

- A paid, 10-week immersive summer research experience is guided by the faculty and graduate student mentors. Housing and travel to campus are provided.
- In addition to research activities, students will participate in weekly professional development workshops and tours/ information sessions with the 30+ companies who are CISTAR industry members .
- The program culminates with a student research symposium where all fellows present their work.

CISTAR™

INDUSTRY MEMBERS:

Pioneer Oil Company, Inc. · Swift Fuels · gti · BgtL · Shell · bp · Honeywell UOP · nicE America · ExxonMobil · TENAWA Resource Management · Chevron Phillips Chemical Company LP · The Heritage Group · micromeritics · MEC Fuels & Chemicals · CountryMark · RAPID Transforming Process Industries · Phillips 66 · ILS · ADI Analytics · Chevron · TOTAL · Johnson Matthey · HALDOR TOPSOE · Innovative Catalytic Solutions · AIR LIQUIDE · SK innovation · CLARIANT · lyondellbasell · HP · BASF We create chemistry · DOW · Endress+Hauser · Braskem

HOW TO APPLY:

APPLICATION IS OPEN NOW

1.Complete the SURF application form

2. Submit your letter of interest & resume
Describe your research experience, qualifications, relevant experiences, and career goals in the letter of interest and upload your resume.

3. Send Unofficial University transcript
Upload a PDF of your original transcript to the application system.

4. Explore CISTAR research projects
Search the project listing for those which include **CISTAR** in the title and indicate those that are of interest to you.

5. Await response from the CISTAR program
Interviews will begin in mid-January.

Eligible students must be U.S. citizens or permanent residents, currently enrolled in a college or university, and attending in the fall. Students from underrepresented minority groups, women, persons with disabilities and veterans are strongly encouraged to apply.

For more information, please contact Maeve Drummond Oakes (maeve@purdue.edu)

CISTAR: SHAPING A NEW ENERGY FUTURE

CISTAR's vision is to create a transformative engineered system to convert light hydrocarbons from shale resources to chemicals and transportation fuels in smaller, modular, local, and highly networked processing plants. Through CISTAR's four pillars: hydrocarbon research, workforce development, diversity and inclusion, and industrial partnerships, CISTAR program participants are given the tools to become technically-excellent and innovative leaders in the global energy economy.

CISTAR™
NSF Engineering Research Center
Center for Innovative and Strategic Transformation of Alkane Resources

PURDUE UNIVERSITY · THE UNIVERSITY OF NEW MEXICO · Northwestern University · UNIVERSITY OF NOTRE DAME · TEXAS · NSF

https://cistar.us