

Undergraduate Research Program (URP) Objectives and Description

Undergraduate Research Program (URP) will be an academic year long program. The program will encourage US citizens, diverse, and gender candidates. The program combines a structured undergraduate research experience with industry mentorship. In addition, the program design increases retention of students interested in majors relevant to the semiconductor industry and better prepares these target groups for a full time opportunity upon graduation or progressing to graduate school programs. It should allow opportunities for URP sponsors to network and/or mentor URP students including an annual recruiting event hosted by SRC to match member company job opportunities with URP students.

Benefits for students participating in URP:

- Promotes research methodologies
- Able to ramp up more quickly in workplace environment
- Develop critical thinking and problem solving skills
- Stand out when applying to graduate school or jobs in industry
- Better prepared and more competitive for industry
- Reinforces teamwork and collaboration
- Develop communication, presentation and research writing skills
- Annual recruiting event to explore job opportunities with industry program participants

Program should provide rigorous and engaged training for undergraduates in the following areas of study with a GPA of 3.0 or higher:

Applied Mathematics, Applied Physics, Bioengineering, Chemistry, Chemical Engineering, Computational Neuroscience, Computer Science & Engineering, Electrical Engineering, Neuroscience, Material Science, Mathematics, Mechanical Engineering, Physics, and Systems Engineering

URP Scholars will be expected to:

- Participate on meaningful, relevant research projects
- SRC will require an initial set of information on each student and an update of student personal information mid-year (January) and year-end report (June).
- Interact with URP sponsors
- Scholars to attend (funded by SRC) annual recruiting event for URP sponsors
- Put forward a top-tier research agenda while also being mindful of the STEM-education and employment initiatives of URP sponsors.

Students will be selected by URP Sponsor companies to participate as a URP Sponsor named scholar for the 2019-2020 academic year. Each scholar will receive a \$2500 stipend to work a minimum of 5 hours a week in the lab for the academic year as part of the URP program. URP scholars will be invited to a recruiting event to network with the opportunity to interview for internships or permanent hire positions with the URP Sponsor companies. URP will pay for scholars travel to the recruiting event. URP scholars should expect hands on industry mentorship via conference calls, campus visits and/or online workshops etc. URP Program Managers will be awarded \$100/URP scholar for student development (enrichment workshops, lunch and learns, poster sessions, presentations etc.).