LOCATION: San Diego Supercomputer Center, San Diego

DURATION: June 20-August 12, 2016

HOURS: Coordinated with respective mentors

PROGRAM DESCRIPTION:

The San Diego Supercomputer Center (SDSC) will once again offer the Research Experience for High School Students (REHS) program this summer. We hope to engage diverse talented high school students from around the county to participate in computational science research. The program is designed to encourage students from diverse backgrounds and interests to become the next generation of computational scientists. The SDSC REHS program goes beyond the standard REU (Research Experience for Undergraduates) program, on which it is based, by integrating students into existing multidisciplinary research teams and thereby into the national computational science effort, while still in high school.

Eligible participants are high school students in their sophomore, junior or senior year who are at least 16 years old, possess a valid work permit if under the age of 18, and are a citizen or permanent resident of the United States or its possessions. Students must have a GPA of 3.0 or higher and must be enrolled in an accredited area high school.

The SDSC REHS program is designed to create research experiences that encourage interactions among the students and their scientific mentors. The ultimate goal is to broaden participation in computational science. Each student will work with a research group at SDSC. The PI and research group will act as the supervisor and mentors for the student. Students will be encouraged to have substantial and frequent interactions with all project collaborators. Through team interactions, students will attain a larger peer group and will experience modern interdisciplinary research.

Previous years’ research topics have included data visualization, sandbox development, predictive analytics, advanced cyberinfrastructure, and molecular mechanisms of diseases such as Parkinson’s and Alzheimer’s.

Please visit education.sdsc.edu/studenttech for details.