

2024 CSUF Computation and Big Data Summer Research Experience

This summer research program is organized by the Center for Computation and Applied Mathematics (CCAM) through the gracious support from the Scott-Jewett Fund for Innovation and Student Success.

Open To: Teams consistent of a CSUF undergraduate student and CSUF faculty mentor who will pursue a research agenda involving computation and big data (broadly defined). Teams who are interested in using high-performance computing but do not yet have experience with it are especially encouraged to apply.

Requirements of Program:

- 1) Participation in CCAM seminars and workshops during spring semester 2024 (Friday afternoons).
- 2) Faculty mentors will each give a short presentation on their research during one these seminars.
- 3) Student participants will conduct research for 20 hours/week for 10 weeks during the 2024 summer under the guidance of their faculty mentor.
- 4) Student participants will present a poster on their work at an undergraduate research event during summer 2024.

Benefits of Program:

- 1) Students will be paid \$3069 while each faculty mentor will receive \$950.
- 2) Participants in the program will join a cohort of CSUF faculty and undergraduate students interested in research involving computation and big data.
- 3) Students and faculty will participate in seminars and workshops that highlight applications of computation and big data in research.

Application:

The faculty mentor should answer the following questions:

- 1) What is your name?
- 2) Which CSUF department are you affiliated with?
- 3) Who are the members of the research team?
- 4) Briefly describe the proposed research (200-400 words).
- 5) How is the proposed project related to computation and/or big data?
- 6) What are the expected outcomes of the project?
- 7) What resources do you require from CCAM (including access to HPC, training in computation approaches, etc.)?
- 8) Based on your experiences, describe the student's capabilities and enthusiasm for research.