

UC San Diego/SDSC

Supercomputing Team

UC San Diego

SDSC

 **IEEE**

Introduction

The IEEE Supercomputing Club at UC San Diego (UCSD) is an undergraduate and graduate community dedicated to high-performance computing. We organize competitions and projects throughout the school year, allowing students to build HPC skills through access to supercomputing tools, technology, and hardware.

Each year, we partner with the San Diego Supercomputer Center (SDSC), UCSD departments, and vendors to send a team of undergraduate students to compete in the Student Cluster Competition (SCC). In the months prior to SCC, our team designs and sources an industry-grade computing cluster. At the competition, we work to complete a real-world scientific workload consisting of benchmarks and applications in a non-stop 48-hour challenge.

We would like your support in the 2025-26 year to support a new generation of HPC professionals!

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Student Cluster Competition (SCC)

Each year the UCSD IEEE Supercomputing Club partners with SDSC, UCSD departments, and vendors to send a team of undergraduate students to compete in the Student Cluster Competition in November.

Competition Overview

SCC started in 2007 to immerse undergraduate students in high-performance computing. Each team consist of 6 students who design, build, and optimize a cluster.

Teams compete in a non-stop 48-hour challenge to complete a real-world scientific workload, while keeping the cluster up and running, and are judged on their performance and knowledge.

UCSD @ SCC

2024 – 1st in the U.S./E.U and 4th overall; first to implement multinode MLPerf.

2023 – 1st in the U.S. and 3rd overall; first to implement MLPerf on AMD GPUs. (Led to IEEE and ACM PEARC '24 publications).

2022 – 1st in the U.S. and 5th overall, 1st in HPL; led to IEEE publication.

2021 – 4th overall out of 19 teams; led to IEEE publication

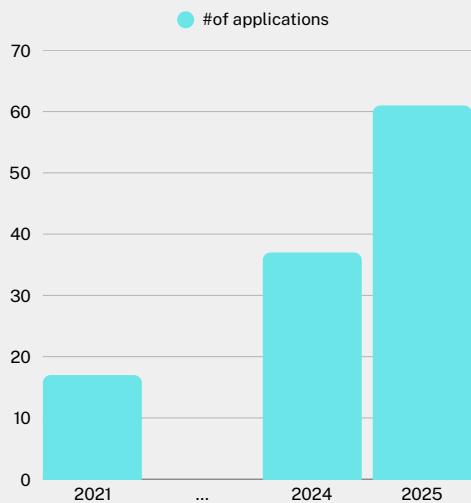
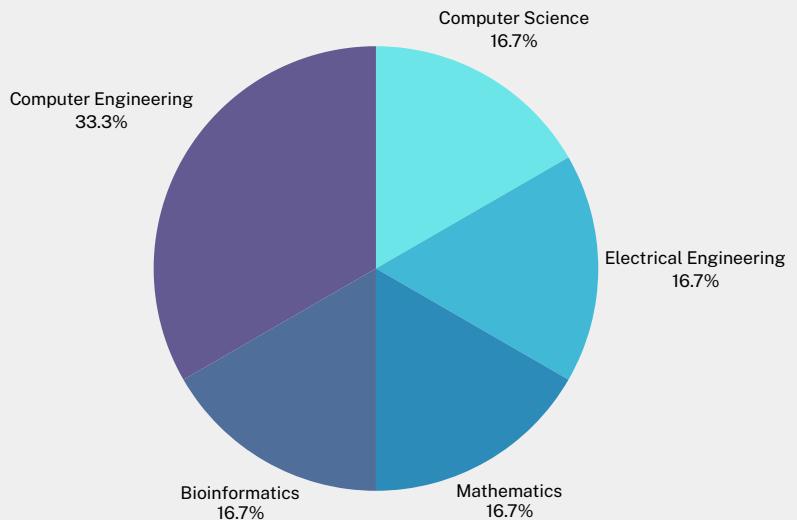
2020 – 1st year competing, highest score for the mystery application



Our Mission

Our goal extends beyond performing well at SC; the team and the Supercomputing Club aim to make high-performance computing more accessible at the undergraduate level.

Our team is an interdisciplinary mix of students studying computer science, computer engineering, electrical engineering, bioinformatics, and mathematics.



Over the past 5 years, the team and club presence on campus has drastically increased, due to our extensive outreach. We promoted team applications across social media channels through the campus IEEE chapter, posted flyers in all data science and engineering bulletin boards, and communicated information to freshman and sophomore computer science classes.

Support the UCSD Team

The UCSD team has been selected for SCC25! We are looking to bring six undergraduate competitors, two alternates, and two advisors to this year's competition at St. Louis, Missouri in November 2025.

Participation in the SCC is not possible without support. Vendor support helps cover the cost of the system build and getting it to/from the conference, along with travel and on-site expenses for the competition team. **Your donation will send the team to the competition, helping us continue our record of excellence and supporting the future generation of HPC professionals.**

Why Sponsor Us?

Talent Pipeline

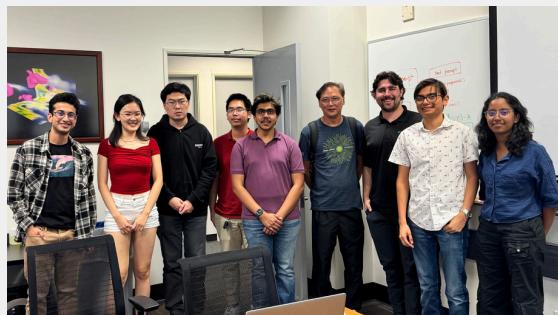
Previous team members have been hired at organizations such as Apple, AMD, and SDSC. Hands-on experience with HPC has enabled them to excel in technical positions across startups, academia, and research labs.

Brand Visibility

SDSC can provide prominent e-signage, pre/post publicity in collateral, social media outreach, mentions in assorted media, photo-ops, and more.

Community Engagement

We welcome our Sponsor technical personnel to work with students on practical training and projects.



Sponsorship Tiers

Bronze - \$500

- Prominent signage at SDSC booth
- Logo on club website and SCC team t-shirt
- Logo on SCC Signage
- Inclusion in press releases

Silver - \$1000

- **Access to team and club members' resumes prior to the competition**
- **Host a technical workshop with our club.**
- Prominent signage at the SDSC booth
- Logo on club website and SCC team t-shirt
- Logo on SCC Signage
- Inclusion in press releases
- Prominent signage at the SDSC booth

Gold - \$2500+

- **Dedicated club project that tests your product.**
- **Host long-term workshops advertising your project.**
- Access to team and club members' resumes prior to competition
- Prominent signage at SDSC booth
- Logo on club website and SCC team t-shirt
- Logo on SCC Signage
- Inclusion in press releases

Monetary Contributions

Monetary contributions can be made online at

<https://giveto.ucsd.edu/giving/home/gift-referral/e4cddf78-4e99-462b-93ac-ffbea5886c5a>

- Enter the fund number **E6653** or the fund title **HPC Student Cluster Competition Team**
- Select \$ amount (listed/other) as a one-time gift
- Follow payment instructions

Contact Us

If you'd like to support our team, we would be happy to talk further!

Team Email: ucsdsupercomputing@gmail.com

Mentors: Mary Thomas (mpthomas@ucsd.edu), Bryan Chin (b5chin@ucsd.edu)

Club website: <https://supercomputing-club.sdsc.edu/>

**Thank you for
your support!**