

Computation Resources at the University of Chicago

Research Computing Center (RCC)

Created in 2012, the Midway cluster is now one of the **top 500 High Performance Computing clusters in the world**.

More than **150 principal investigators and 750 general users** make use of RCC's centralized computational resources.

The RCC hosts **more than twenty workshops, symposiums, and speakers every year**.

The RCC's team of **consultants, application developers, and research programmers assist researchers** of all skill levels.

Computation Institute (CI)

Created in 2000 as a joint initiative between The University of Chicago and Argonne National Laboratory to **advance science through innovative computational approaches**.

The CI is **home to over 100 researchers and staff, including more than 70 fellows from University of Chicago faculty and Argonne scientists**.

The CI has **locations at the University of Chicago, the Argonne National Laboratory and a venture called "1871" in Chicago's Merchandise Mart**.

It brings together researchers from different disciplines and provides expert assistance to scholars whose work requires the most advanced computational methods.

High-profile, high-impact projects such as the Center for **Robust Decision Making on Climate and Energy Policy**, the **Urban Center for Computation and Data**, and the **Knowledge Lab**.

Toyota Technical Institute (TTIC)

Created in 2003, the TTIC is an independent, \$200 million dollar, degree granting Institute dedicated to basic research and graduate education in computer science.

Currently focusing on **theoretical computer science** (algorithms and complexity), **machine learning** (computational biology, computer vision, natural language processing, robotics, and speech), and **scientific computing** (numerical analysis, numerical optimization, and signal processing).

Argonne National Laboratory

About a 40 minute drive from campus.

Argonne is a multidisciplinary **science and engineering research center**, where "dream teams" of world-class researchers address **vital national challenges in clean energy, environment, technology, and national security**.

Annual budget of \$760 million. More than 1,600 scientists and engineers, 450 graduate and undergraduate students, 248 joint faculty.

Very advanced computer science, including: **extreme-scale computing, grid and cloud computing, large-scale data storage, communication, analysis, and visualization**.

Social Sciences Computing Services (SSCS)

The SSCS maintain and support the **Social Sciences Data Archive** for research across the Social Sciences.

They offer **consulting and research opportunities** for work in Geographic Information Systems and Science (GIS).

The SSCS support server-based research in **Economics, Political Science, Sociology, the Center for Computational Psychology, the Institute for Mind and Biology, NORC, and the Anthropology Computer Center**.