

Welcome!

Research Core Facilities Program

Isabelle Girard, Director [igirard@ucdavis.edu]

UCDAVIS
OFFICE OF RESEARCH

Research core facilities amplify your capabilities!

UC DAVIS
OFFICE OF RESEARCH



Shared resources are available to help you

- ⚙ instrumentation
- ⚙ expertise
- ⚙ services
- ⚙ training
- ⚙ scholarship

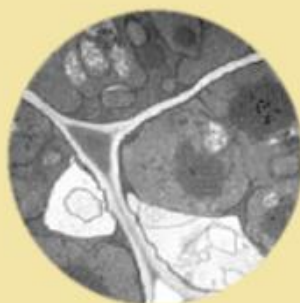
Research cores include any organized shared research facility or resource that provides access to technologies, equipment, services, and expert consultation to enable, facilitate, and enhance the research mission of the university. Cores typically serve a substantial user base and have established and approved recharge rates for users.

Representative Research Core Facilities



Bioinformatics Core

bioinformatics.ucdavis.edu



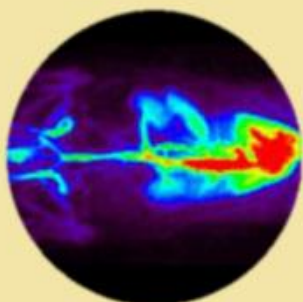
Biological Electron Microscopy Facility

bioem.ucdavis.edu



Campus Mass Spectrometry Facility

cmsf.ucdavis.edu



Center for Molecular and Genomic Imaging

cmgi.ucdavis.edu

more than 100 research
cores and shared
resource facilities can
support your work



Controlled Environment Facility

cef.ucdavis.edu



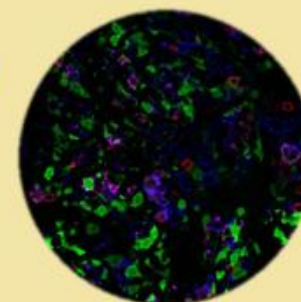
DNA Technologies and Expression Analysis

dnatech.genomecenter.ucdavis.edu



Flow Cytometry Shared Resource Laboratory

health.ucdavis.edu/cancer/research/sharedresources/flowcytometry.html



Health Sciences District Advanced Imaging Facility

advancedimaging.vetmed.ucdavis.edu

The Research Core Directory contains over **90** shared-resource facilities and ~ **300** assets.

Search by text, view a full list, and explore instruments and services.

Welcome Researchers!

Explore the shared research resources available at UC Davis, including:

- 93 cores : labs, centers, offices, and units that own resources and provide services
- 296 resources : equipment, space, software, datasets, and other assets
- 425 services : analysis, consultation, training, recording, and other expertise for hire or for free

... with more being added all the time

Three Ways to View the Directory

1. [View a Full List](#)
2. [View Cores by Theme](#)
3. Enter a search term below ↓



To add a new core, resource or service, please reach out to ResearchCore@ucdavis.edu



Log in with your UC Davis Campus credentials to view core resources available only to the campus community.

UCD Research Core Facilities

Perform a specific search

All Campuses

All Schools/Colleges

Advanced Materials Characterization and Testing Laboratory *Also known as: AMCaT*

Kemper Hall

Primary Contact: Kashyap Ganesan | kganesan@ucdavis.edu

The AMCaT is a characterization lab in the MSE department housing a variety of instruments, including an environmental scanning electron microscope (SEM) with energy dispersive x-ray spectroscopy (EDS), a transmission electron microscope (TEM), an x-ray photoelectron spectrometer (XPS), and thin film and powder x-ray diffractometers (XRD).

Aquatic Health Program Laboratory *Also known as: UCD AHP*

Veterinary Medicine 3B

Center for Aquatic Biology and Aquaculture

Primary Contact: Bruce Hammock | brucehammock@gmail.com | [530-754-8020](tel:530-754-8020)

We are a multidisciplinary research unit that addresses applied ecological and toxicological questions in aquatic ecosystems. We collaborate with the private sector, interagency programs, regional, state, and federal agencies, as well as other research and educational institutions to improve the health of aquatic species and their environments.

Bioinformatics Core Facility

GBSF

Primary Contact: Jie (Jessie) Li | jjqli@ucdavis.edu

We have over a decade of experience in helping to solve a wide variety of bioinformatics problems, large and small. We have significant expertise in analyzing data from genomics, proteomics, metabolomics, and other projects, to help translate data to knowledge and drive research forward.



Advanced Materials Characterization and Testing Laboratory

Also known as: AMCaT

[Resources \(5\)](#) [Services \(0\)](#)

Last Updated: 31 May 2024

Primary Contact	Kashyap Ganesan kganesan@ucdavis.edu	Address Kemper Hall 545 Bainer Hall Dr. Room: 108 Davis, California 95616 Davis Campus
Parent Organization	College of Engineering	Core Phone 5307520284
Organization Center Name	None	Core Email amcat@ucdavis.edu
Core Description	The AMCaT is a characterization lab in the MSE department housing a variety of instruments, including an environmental scanning electron microscope (SEM) with energy dispersive x-ray spectroscopy (EDS), a transmission electron microscope (TEM), an x-ray photoelectron spectrometer (XPS), and thin film and powder x-ray diffractometers (XRD).	Rate Structure None
Home Url	https://mse.engineering.ucdavis.edu/amcat	Rate Sheet Url https://mse.engineering.ucdavis.edu/amcat/recharge-rates
Citation	None	Staffed Hours 8 am - 5 pm
Core RRID	None	Training https://mse.engineering.ucdavis.edu/amcat/become-a-user
Primary School/College Affiliation	College of Engineering	Reservation Url None
Other Affiliations		Technical Director: Kashyap Ganesan kganesan@ucdavis.edu
Certifications	None	



Advanced Materials Characterization and Testing Laboratory

Also known as: AMCaT

Resources (5) Services (0)

Last Updated: 31 May 2024

Primary Contact Kashyap Ganesan | kganesan@ucdavis.edu

Parent Organization College of Engineering

Organization Center Name None

Core Description The AMCaT is a characterization lab in the MSE department housing a variety of instruments, including an environmental scanning electron microscope (SEM) with energy dispersive x-ray spectroscopy (EDS), a transmission electron microscope (TEM), an x-ray photoelectron spectrometer (XPS), and thin film and powder x-ray diffractometers (XRD).

Home Url <https://mse.engineering.ucdavis.edu/amcat>

Citation None

Core RRID None

Primary School/College Affiliation College of Engineering

Other Affiliations

Certifications None

Address

Kemper Hall
545 Bainer Hall Dr. Room: 108
Davis, California 95616

Davis Campus

Core Phone

[5307520284](tel:5307520284)

Core Email

amcat@ucdavis.edu

Rate Structure

None

Rate Sheet Url

<https://mse.engineering.ucdavis.edu/amcat/recharge-rates>

Staffed Hours

8 am - 5 pm

Training

<https://mse.engineering.ucdavis.edu/amcat/become-a-user>

Reservation Url

None

Technical Director:

Kashyap Ganesan | kganesan@ucdavis.edu

Resources (5) Services (0)

JEOL 2100F TEM

Kratos Axis Supra XPS

Rigaku SmartLab XRD (Powder)

Rigaku SmartLab XRD (Thin Film)

Thermofisher Quattro S Environmental SEM

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Teague Cigarette Smoke Generator
CNPRC Inhalation Exposure Core



Software architecture
Bioinformatics Core Facility



FreezerWorks LIMS
sample management
CTSC Biorepository Core

Evaluation frameworks
SOMOR Evaluation Unit



Seawater
Bodega Marine
Laboratory



UC DAVIS

High Performance Computing

[About >](#) [Clients](#) [Services >](#) [Support >](#) [Updates >](#) [Documentation](#) [New Accounts](#)



For research too intensive (CPU, memory, time) for desktops or laptops

Cybersecurity, hardware maintenance, system administration all provided

Centrally funded with 9 system admin staff

Free public-access tier and per-usage fee

Introducing Hive



HPC@UCD

UC Davis High Performance Computing

[About](#) > [Services](#) > [Support](#) > [Updates](#) > [Getting Started](#) >



Public tier resources free to all staff, faculty, grad students at UC Davis

- includes 128 cpu, 5 GPU (A6000), 2TB RAM

No need to purchase hardware, hours or manage fair share

CPU/GPU rented month by month (< \$3 per month per CPU)

- unlimited near-instantaneous access to your CPU
- unlimited low-priority access to additional unused CPU (~7500 total!)

Storage by month (~ \$2 per month per TB of data)

- free 20GB home directory for all users
- backup options available



HPC@UCD

UC Davis High Performance Computing



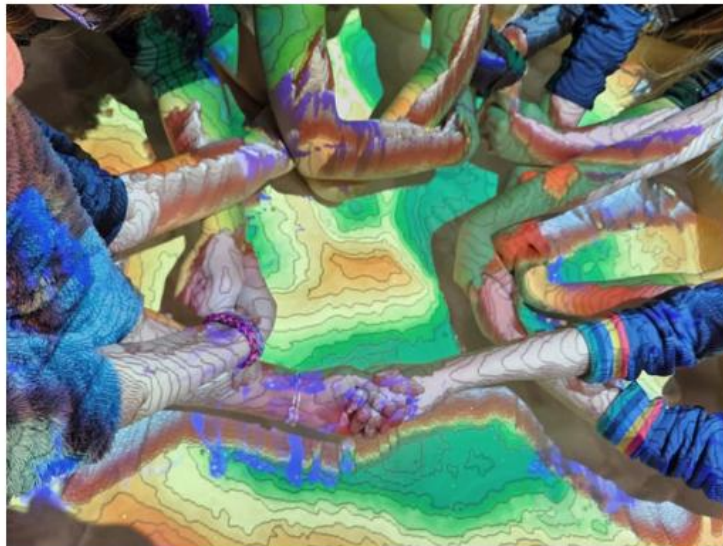
DataLab

Data Science and Informatics

Training, documentation and help

Research > Consulting > Education & Training > Community & Partnerships > About >

DataLab supports innovation and accelerates data-driven discovery for all



Get help from DataLab

Collaborate with DataLab on transformative pilot projects, grant proposals, research projects and instruction.

[Consult with Us](#)



Learn skills to make the most of your data

Reference our research toolkits, attend a workshop and discover other campus data science resources.

[Expand Your Skills](#)



Connect with data practitioners

Join a Community of Practice, become a DataLab affiliate or find work on our community job board.

[Connect to the Community](#)

Research Core Facilities



Research Core
Directory

**find
research
resources**



Stratocore PPMS
Software

**manage
orders for
services**



Core Funding
Opportunities

**find
research
funding**



Cores Community

**connect
with core
managers**

Research Core Program welcomes your questions

- *Can a facility host my new microscope?*
- *What research computing resources are available?*
- *How can I evaluate impact in my project?*
- *Where can I grow mushrooms?*
- *Who can help me identify a protein?*
- *Should I buy from this vendor?*

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