UNIVERSITY OF CALIFORNIA   Center of Excellence

University of California Centers of Excellence

ANNUAL REPORT FY23/24

UNIVERSITY
OF
CALIFORNIA
Center of
Excellence

Table of Contents

UNIVERSITY OF CALIFORNIA   Center of Excellence

Overview

COE	LEAD	HOST LOCATION	SPONSORING PROGRAM	ESTABLISHED	STATUS
BSL-3 Biosafety Training Program	Gary Landucci	UCI	EH&S	2/1/15	*Current*
Center for Laboratory Safety	Imke Schroeder	UCLA	EH&S	2/1/15	*Current*
Chemical Management Safety	Megan Hall	UCB	EH&S	11/1/23	*Current*
Emergency Management Geographic Information Systems	Mono Simeone	UCSF	Risk Management - General Liability	7/1/23	*Current*
Enterprise Dive and Boat Safety	Eric Hessel	UCSB	EH&S	7/1/19	*Current*
Field Research Safety	Sara Souza	UCB	EH&S	7/1/16	*Current*
Fire and Life Safety Services	Steve Guarino	UCLA	EH&S	7/1/22	*Current*
Health Systems EH&S Training	Christine Flanders	UCD Health	EH&S	4/1/23	*Current*
Integrated Pest Management	Under Recruitment	UC ANR	EH&S - General Liability	4/1/20	*Current*
Radiation Safety	Cathleen Edmunds	UCSF	EH&S	12/1/17	*Current*
Risk & Safety Training	Janette Ducut	UCR	EH&S	4/15/15	*Current*
Travel Registration and Insurance Services	Nancy Osborne	UC Education Abroad Program	Risk Management - General Liability	1/1/22	*Current*
Unmanned Aircraft System (UAS) Safety	Brandon Stark	UCM	Risk Management - General Liability	3/1/16	*Current*
Workplace Violence Prevention General Industry	Monique Mendoza and Chris Silva	UCLA	Workers' Compensation	2/1/24	*Current*
Workplace Violence Prevention in Healthcare	William E. Huey, Jr.	UCI Health	EH&S	7/1/22	*Current*
WorkStrong	Alison Frink	UCLA	Workers' Compensation	4/1/16	*Current*

Centers of Excellence
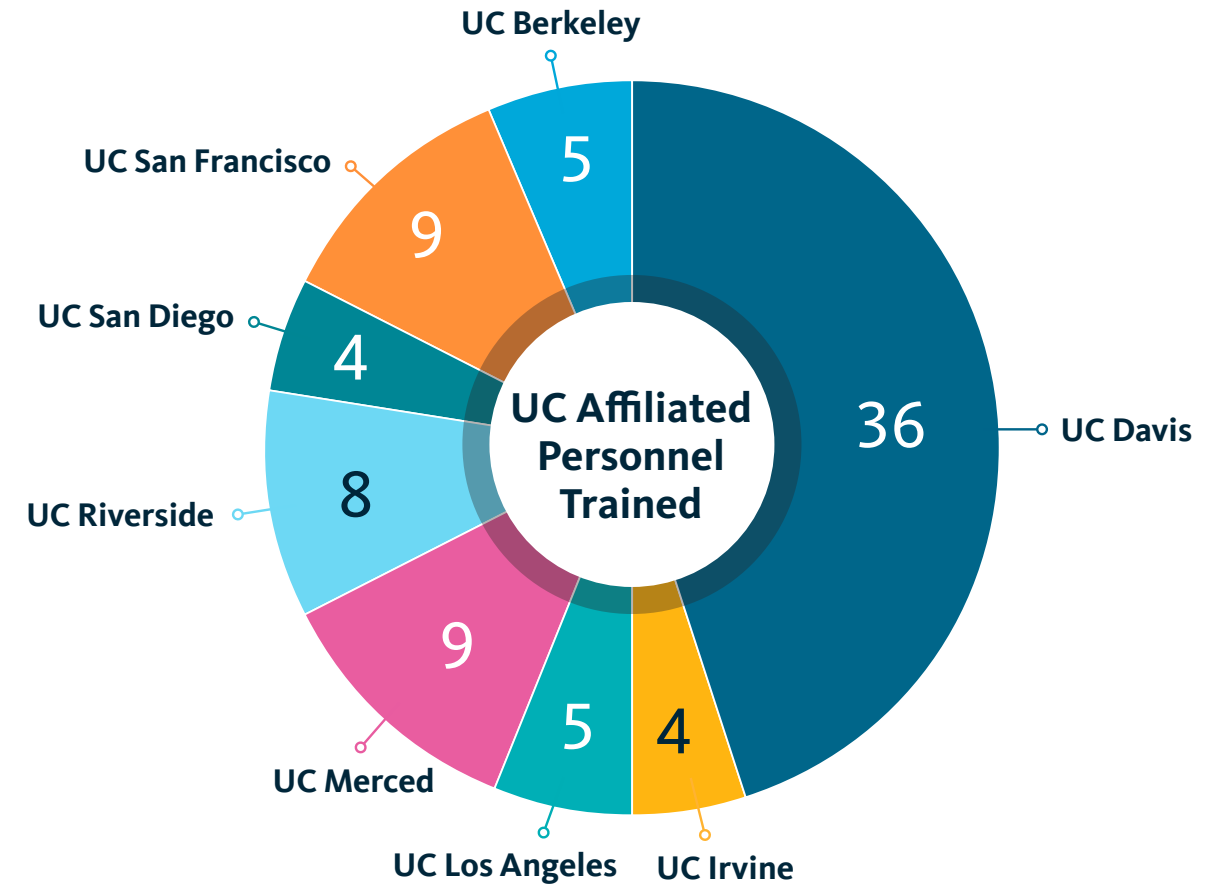
ENVIRONMENTAL HEALTH & SAFETY (EH&S)

→ BSL-3 Biosafety Training Program

→ Center for Laboratory Safety

→ Chemical Management Safety

→ Enterprise Dive and Boat Safety Program

→ Field Research Safety

→ Fire and Life Safety Services

→ Health Systems EH&S Training

→ Integrated Pest Management

→ Radiation Safety

→ Risk & Safety Training

→ Workplace Violence Prevention in Healthcare

UNIVERSITY OF CALIFORNIA   Center of Excellence

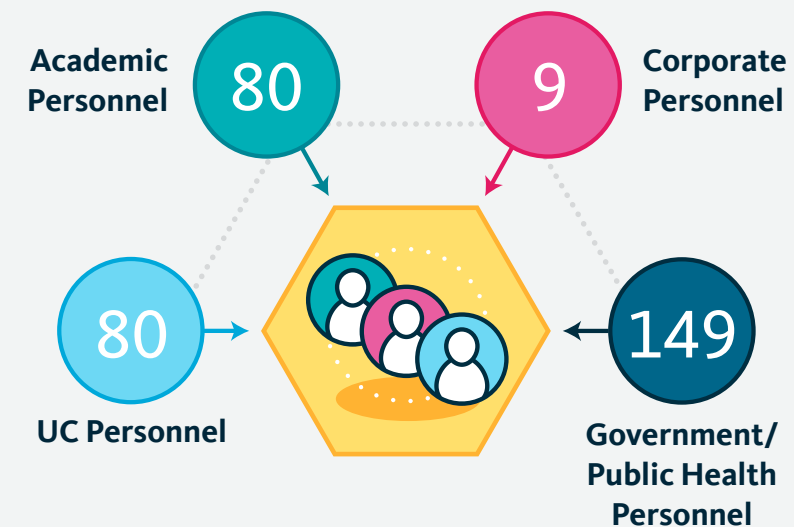# BSL-3 Biosafety Training Program

The Biosafety Level-3 (BSL-3) Training CoE develops and delivers high-containment laboratory safety training for personnel groups, including laboratory staff, biosafety professionals, first responders and operations & maintenance personnel. The CoE is integral in supporting the systemwide High-Containment Laboratory Oversight Committee by conducting BSL-3 lab evaluations, plan reviews and on-site training.

Accomplishments

- Held 10 training sessions at the UC Irvine BSL-3 Training Center
  - Six 4-day BSL-3 Laboratory Training courses
  - Two 4-day BSL-3 Operations, Maintenance & Verification Training courses
  - One 1-day BSL-3 Train the Trainer course
    - One 3-day UC High-Containment Lab Director Refresher Training course
    - UC Berkeley (2 participants)
    - UC Davis (1 participant)
    - UC Irvine (2 participants)
    - UCLA (2 participants)
    - UC Merced (2 participants)
    - UC Riverside (2 participants)
    - UC San Francisco (1 participant)
    - UC San Diego (2 participants)
- Conducted 2 onsite training sessions at the following locations:
  - One 4-day BSL-3 Operations, Maintenance and Verification training a UC Davis (32 participants)
  - One ½ day BSL-3 informational training session for a non-UC entity (9 participants)
- Conducted 8 fee-for-service BSL-3 trainings onsite at non-UC entities

UC Affiliated Personnel Trained

- UC Berkeley: 5
- UC San Francisco: 9
- UC San Diego: 4
- UC Riverside: 8
- UC Merced: 9
- UC Los Angeles: 5
- UC Irvine: 4
- UC Davis: 36

Training Overview

- Academic Personnel: 80
- Corporate Personnel: 9
- UC Personnel: 80
- Government/ Public Health Personnel: 149

- → 20 trainings
- → 500 training hours
- → 318 individuals trained
- → 95% of participants rated course as "Excellent"

UNIVERSITY OF CALIFORNIA   Center of Excellence

UC | Center for Laboratory Safety

Center For Laboratory Safety

The Center for Laboratory Safety CoE sponsors and supports research on laboratory safety practices with the goal of identifying, developing and applying best practices in laboratories. The Center for Laboratory Safety (UCCLS) is a founding member of the national Safety Training Consortium (STC), which focuses on developing impactful online training courses for academic institutions and researchers.

UCCLS WEBSITE VISITS

29,000

Up 10% from FY22-23

Accomplishments

- Conducted the 2023 Workshop on Laboratory Safety: Human Factors: Safety and Technology at UCLA. Topics covered include:
  - Artificial Intelligence (AI) use in Safety and Student-Led Safety Teams
  - Ethics, Obligations and Lab Safety
  - Technology to Improve Lab Safety
  - Fire Safety in the Laboratory
  - Addressing Human Factors in Laboratory Research
- Managed the Safety Training Consortium, which recruited 5 new member Institutions:
  - Harvey Mudd College
  - Nanyang University, Singapore
  - Underwriters Laboratories
  - University of New Orleans
  - University of Pennsylvania
- Collaborated with the UC Risk & Safety Training CoE on STC course development:
  - Formaldehyde Safety (the first course certified to Web Content Accessibility Guidelines (WCAG) 2.1AA ADA Standard)

- Created and delivered a 10-module Chemical Hygiene Officer (CHO) training to National Institutes of Health EH&S staff in May 2024. Topics include:
  - Regulatory agencies and legal requirements
  - Chemical hazards and their risks
  - Safe handling of chemicals
  - Physical, laser and electric hazards
  - Radiological and biohazards
  - Risk assessment and controls
  - CHO and lab safety professional activities, skills and responsibilities
  - Incident investigations
  - Safety culture
  - Resources for safety professionals
- Delivered 23 presentations at major universities, companies and national conferences, including 10 at UC locations
- Developed 2 guide documents for Laboratory Safety Contacts
  - Laboratory Safety Coordinator: Guidance for Your Role
  - Laboratory Safety Coordinator: Guidance for PIs

+5 new Safety Training Consortium members = 59 total members

2023 Laboratory Safety Workshop

102 Attendees

- 32 Other Universities
- 4 National Laboratories
- 9 UC Locations
- 5 External Companies
- 8 Breakout Sessions
- 7 Presentations
- 2 Panels

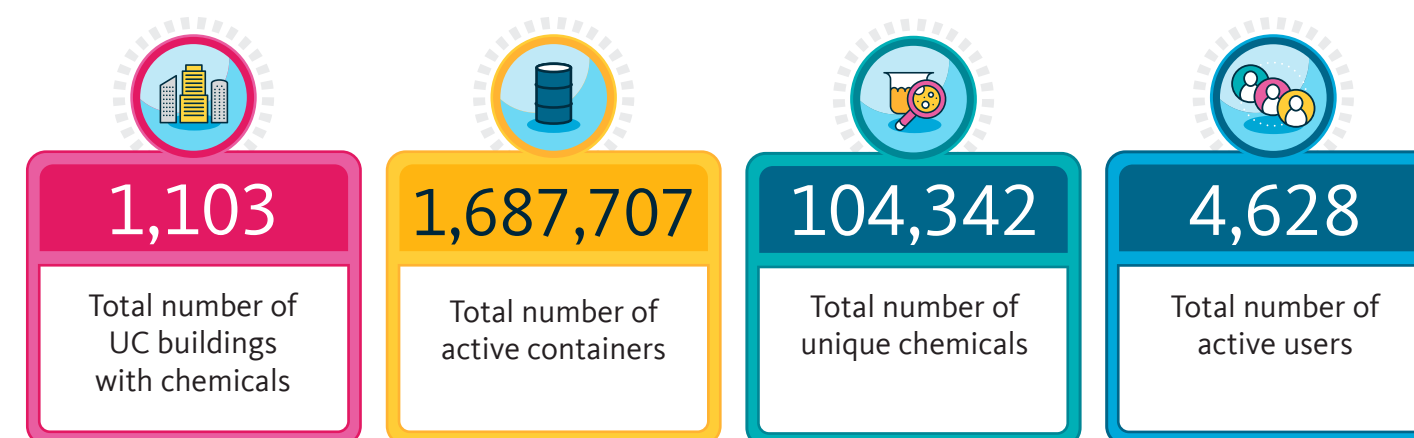UNIVERSITY OF CALIFORNIA   Center of Excellence

Chemical Management Safety

The Chemical Management Safety CoE provides expert consultation with respect to hazardous materials handling and storage, interprets hazardous materials requirements as outlined in the California Fire Code, and develops resources to support Maximum Allowable Quantities (MAQ) compliance across the UC Enterprise.

Accomplishments

- Conducted virtual meetings with all 10 campuses and 6 health systems:
  - Established primary point of contact for MAQ initiative
  - Reviewed current site-specific chemical management practices
  - Discussed near term resource needs
  - Answered regulatory and code related questions
- On-site visits occurred at 6 campuses (UC Berkeley, UC Irvine, UC Riverside, UC San Diego, UC Santa Barbara, UCLA) and 1 health system (UCLA Health)
- Hosted monthly MAQ Q&A Sessions open to all UC locations
- Developed the following resources:
  - A white paper on Approved Storage with support from the UC Council of Campus Fire Marshals (UC CCFM) and the Office of the State Fire Marshal (OSFM)
  - MAQ Reports in RSS Chemicals in collaboration with Risk & Safety Solutions (RSS)
  - A guide to using 2D or Combo 2D/RFID tags for chemical containers was created in collaboration with location clients and RSS
  - A webpage on Chemical Management Safety with content and resources pertaining to understanding MAQ concepts, including control areas, compliance, storage, role-specific information (e.g., for Fire Marshals, Chemical Inventory Administrators, Principal Investigators, etc.) and site-specific resources.

Chemical Inventory Statistics from UC locations

1,103
Total number of UC buildings with chemicals

1,687,707
Total number of active containers

104,342
Total number of unique chemicals

4,628
Total number of active users

Metrics

➜ A Webinar on "Approved Storage of Hazardous Materials" was attended by **over 40 people**

➜ A live demonstration webinar on "Viewing MAQ Reports" was conducted and attended by **over 80 participants**

➜ **72 subscribers** to Chemical Storage Maximum Allowable Quantities Workgroup Listserv

UNIVERSITY OF CALIFORNIA   Center of Excellence

UC Dive & Boat SAFETY

Enterprise Dive and Boat Safety Program

The UC Enterprise Dive and Boat Safety Program supports the Dive and Boat Safety Programs throughout the UC system as well as provides the oversight and support for the scientific diving and boating operations by UC Berkeley, Irvine, Merced, Riverside, and at the UC Gump Field Station on Moorea, French Polynesia.

Accomplishments

- Continued to support existing faculty, researchers, post-docs, graduate students and associated administrative staff at UC Berkeley, Irvine and Merced
- Supported the onboarding of new faculty members and their lab personnel at UC Berkeley
- Provided required training (lecture, hands-on emergency skills, confined water and open water), planning and support for researchers conducting dive operations in the field
- Enhanced support for the Gump Field Station:
  - Increased onsite Dive Safety Officer support for researchers and field classes at the highly active field station
  - Established new Waterfront Safety Office facility
  - Onboarded new staff at Gump's Waterfront, including the Waterfront Safety Manager and the Waterfront Mechanic
  - Implemented the Enterprise Dive and Boat Control Board
  - Developed the UC Gump Station's Small Boat Operations Manual
  - Established a vessel documentation procedure and created a Boating App for the station's operations
  - Developed a Boating and Diving Emergency Management Plan for Gump Station
- Gump Field Station
  - 8 DSO site visits for a total of 91 days

	UC Berkeley/ UC Merced / UC Irvine	Gump
Number of small boats	2	18
Boat operators	6	50
Boat trips *(Training and Scientific Related)*	15	915
Total Number of dives for this period	59	3,000+
Total number of Divers Logging Dives During this Period	7	100+

Dive Purpose

Purpose	Total Dive Time in Minutes	Number of Dives Logged	Number of Divers Logging Dives
Scientific	455	35	6
Training	842	24	6

Dives by AAUS Depth Range

Depth Range	Dives Logged	Number of Divers Logging Dives
0-30 feet	23	6
31-60 feet	21	6
61-100 feet	11	6
101-130 feet	0	0
131-150 feet	2	2
151-190 feet	2	2

Dive and/or Boat activities were approved for the following locations:

- Bodega Bay
- Gulf of Mexico
- Merced
- Monterey
- Moorea, French Polynesia
- Santa Barbara
- San Diego
- Smithsonian Tropical Research Institute (STRI) in Panama

UNIVERSITY OF CALIFORNIA   Center of Excellence

Field Research Safety

The Field Research Safety CoE facilitates the sharing of lessons learned and best practices in field work, while promoting risk management through the development of safety planning tools and resources.

Accomplishments

- Hosted the 2024 UC Field Safety Leadership Retreat. Presentations given include:
  - Safety Differently
  - Conception Boat Accident Review, Program Impacts
  - International Research and Evacuation Factors
  - Practice of Mentoring
  - Cold Water Survival Workshop
  - Navigations and Communications
- Supported UC administrators and Principal Investigators with inquiries about the National Science Foundation's new 2023 requirements for safe and inclusive plans for off campus research.

- Four components of a plan include:
  - Hazard assessment: A description of the field setting and unique challenges;
  - Mentoring/Training: Steps that will be taken to nurture an inclusive off-campus or off-site working environment;
  - Communication processes; and
  - Mechanisms for reporting, responding to and resolving incidents
- Provided the following Field Safety Planning Workshops:
  - Grizzly Corp Fellows
  - New biology grad students
  - UC San Francisco lab group starting field collection of specimens
  - UC Berkeley's Moorea field station courses
- Managed the UC Epinephrine Auto-Injector Training Program
- Served as Co-Chair of the Campus Safety, Health, and Environmental Management Association (CSHEMA) Field Research Safety Community of Practice
- Presented "Emerging Topics in Field Research Safety" at CSHEMA's Annual Meeting
- Coordinated systemwide development and successfully piloted Field Hazard Assessment questions at UC Berkeley including:
  - Screening question that identifies researchers conducting off campus fieldwork, Follow up questions and actions related to communications, emergency services, weather conditions, safety and security, and use of hazardous materials

UC Field Safety Leadership Retreat

80 Participants including:

→ 18 Principal Investigators

→ 18 Field Course Instructors

→ 6 Reserve Managers

→ 38 Safety Professionals & Grad Students

120+

Researchers and students participated in the Wilderness First Aid Training

UNIVERSITY OF CALIFORNIA   Center of Excellence

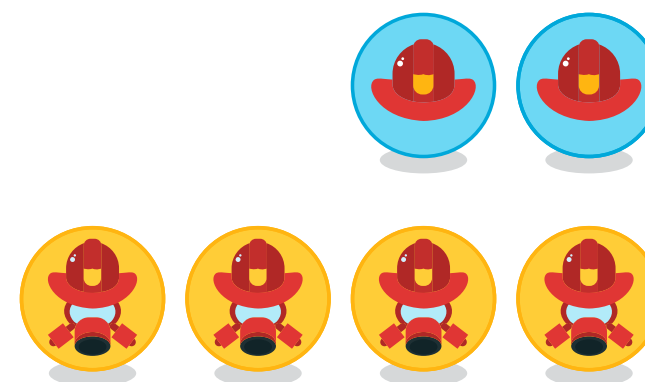**UC Fire & Life Safety Services**

Fire and Life Safety Services

The University of California Fire and Life Safety Services program works to ensure the safety and well-being of the UC community across all locations. This program operates in collaboration with key partners, including the University of California, Office of the President (UCOP), the UC Council of Campus Fire Marshals (CCFM), the California Office of the State Fire Marshal (OSFM), and the California Department of Health Care Access and Information (HCAI), to addresses fire and panic safety concerns systemwide through evaluation, review, and the development of strategic recommendations.

Accomplishments

- Supported the designation of Campus Fire Marshals at several UC locations, including:
  - **HCAI Designated Fire Life Safety Officers (DFLSO):**
    - 1 Fire Life Safety Officer II **(UC Irvine Health)**
    - 1 Fire Life Safety Officer I **(UC Davis Health)**
  - **OSFM Designated Campus Fire Marshals (DCFM):**
    - 1 DCFM **(UC Berkeley)**
    - 1 DCFM **(UC Davis)**
  - **OSFM Lead Designated Campus Fire Marshals (LDCFM):**
    - 1 LDCFM Lawrence Berkeley National Laboratory **(LBNL)**
    - 1 LDCFM **(UC Davis Health)**
- Conducted site visits at all UC campuses, health systems, and LBNL in order to provide direct support, assess local challenges and tailor the LDCFM or DFLSO program to effectively address location-specific needs
- Provided onsite support for UC Davis Health and UC Irvine without a LDCFM to ensure continuity in services, maintain compliance and address critical safety needs during transitional periods
- Collaborated with OSFM and HCAI to refine and renew the Memorandums of Understanding (MOUs) that support the LDCFM programs
- Collaborated with the Chemical Management Safety Center of Excellence, other systemwide and local subject matter experts, and representatives from each UC location to identify, establish and maintain Fire Control Areas to ensure compliance with MAQs
- Conducted a systemwide survey to identify areas using Aqueous Film-Forming Foam (AFFF) at UC facilities in order to support the transition to Flourine-Free Foam by the OSFM-mandated deadline of January 1, 2024
- Facilitated and organized DCFM participation in the International Code Council (ICC) 2024 Committee Action Hearings (CAH) as part of the ICC Annual Conference

2 HCAI Fire Life Safety Officer Designations

4 OSFM Campus Fire Marshal Designations

16 Site Visits

→ 10 UC Campuses

✚ 5 UC Health Systems

→ Lawrence National Berkeley Lab

UC DAVIS

UC BERKELEY

LBNL

UC SAN FRANCISCO

UC SANTA CRUZ

UC MERCED

UC LOS ANGELES

UC SANTA BARBARA

UC RIVERSIDE

UC IRVINE

UC SAN DIEGO

UNIVERSITY OF CALIFORNIA   Center of Excellence

Health Systems EH&S Training

The Health Systems EH&S Training CoE was established with the aim of enhancing health and safety training across the University of California Health Systems.

Accomplishments

- Analyzed 31 training courses on waste disposal to identify training gaps in preparation for new courses to be developed and deployed

- Developed PowerPoint resources for the following presentations:
  - MCEHSLC presentations: 3
  - DEIB presentations on accessibility: 1
  - WPVP WG In-person meeting presentation: 1

- Rebuilt and redesigned the Supervisor Safety Training in Articulate Rise, which allowed for enhancements for modern instructional design principles and streamlined use for Health System employees

- Updated the Hazardous Drugs USP 800 training with new content and the addition of specific information for the UC Davis Veterinary Medicine Teaching Hospital

- Developed a training course compliant with the Web Content Accessibility Guidelines (WCAG) 2.1AA ADA Standard to support the installation of Automated External Defibrillators (AEDs) for public use throughout the UC Davis Health System

- Customized and implemented the following courses for the UC Health locations:
  - Clinical Laser Safety
  - Workplace Violence Prevention in Healthcare Awareness

Risk & Safety TRAINING
University of California

University of California
Health System Safety & Security

Workplace Violence Prevention in Healthcare

Catalog Management

Primary point of contact for changes or implementation support for the following 14 Health System RST courses:

➜ Aerosol Transmissible Diseases (Healthcare)	➜ Hazardous Waste Management (Pharmaceutical/Hazardous Drugs)
➜ Bloodborne Pathogens in Healthcare	➜ Hazardous Waste Shipping (Biomedical)
➜ Clinical Laboratory Safety	➜ OR/Perioperative Safety
➜ Clinical Laser Safety	➜ Patient Safety Act
➜ Dry Ice Shipping for Health Systems	➜ Safe Patient Handling
➜ Fluoroscopy	➜ Supervisor Safety
➜ Hazardous Drugs USP 800	➜ Workplace Violence in Healthcare

UNIVERSITY OF CALIFORNIA | Center of Excellence

Integrated Pest Management

The Integrated Pest Management Center of Excellence provides technical support to all UC locations with respect to implementing the Presidential Policy on Integrated Pest Management (IPM). The CoE serves in an advisory role to the Systemwide Pesticide Oversight Committee (SPOC) and provides training, develops resources, and interprets pesticide regulations.

Accomplishments

- Supported the issuance of the Presidential Policy on Integrated Pest Management on March 13, 2024

- Initiated meetings with each location to support establishment of the local IPM committees and designation of IPM Coordinators

- Engaged with Risk & Safety Solutions to review and develop the Pesticide Management Solution including:
  - Incorporation of the SPOC approved UC Hazard Tier List of pesticides
  - Designation and workflow of Pesticide Use Authorization (PUA) types; Automatic, Generic, Specific and Emergency
  - Direct submission of mandated Department of Pesticide Regulations reporting details

- Provided consultation to the Risk & Safety Training CoE in the development of the Pesticide Employee Safety Training (PEST)
  - Specific content for pesticide handlers and supervisors
  - Blended learning with online content and in-person workshops
  - Identified pre-requisites of heat illness training and hazard communication

Number of Committees: 11
➜ UC ANR
➜ UC Berkeley
➜ UC Davis and UC Davis Health (combined)
➜ UC Irvine and UCI Health (combined)
➜ UCLA and UCLA Health (combined)
➜ UC Merced
➜ UC Riverside and UC Riverside Health (combined)
➜ UC San Diego and UC San Diego Health (combined)
➜ UC San Francisco and UCSF Health (combined)
➜ UC Santa Barbara
➜ Santa Cruz

137

Number of pesticides that are tiered

Pesticide Use

Site/Commodity *
Which Site/Commodity will you be applying to?

Pesticide *
🔍 Search Pesticide

Total Area Treated *
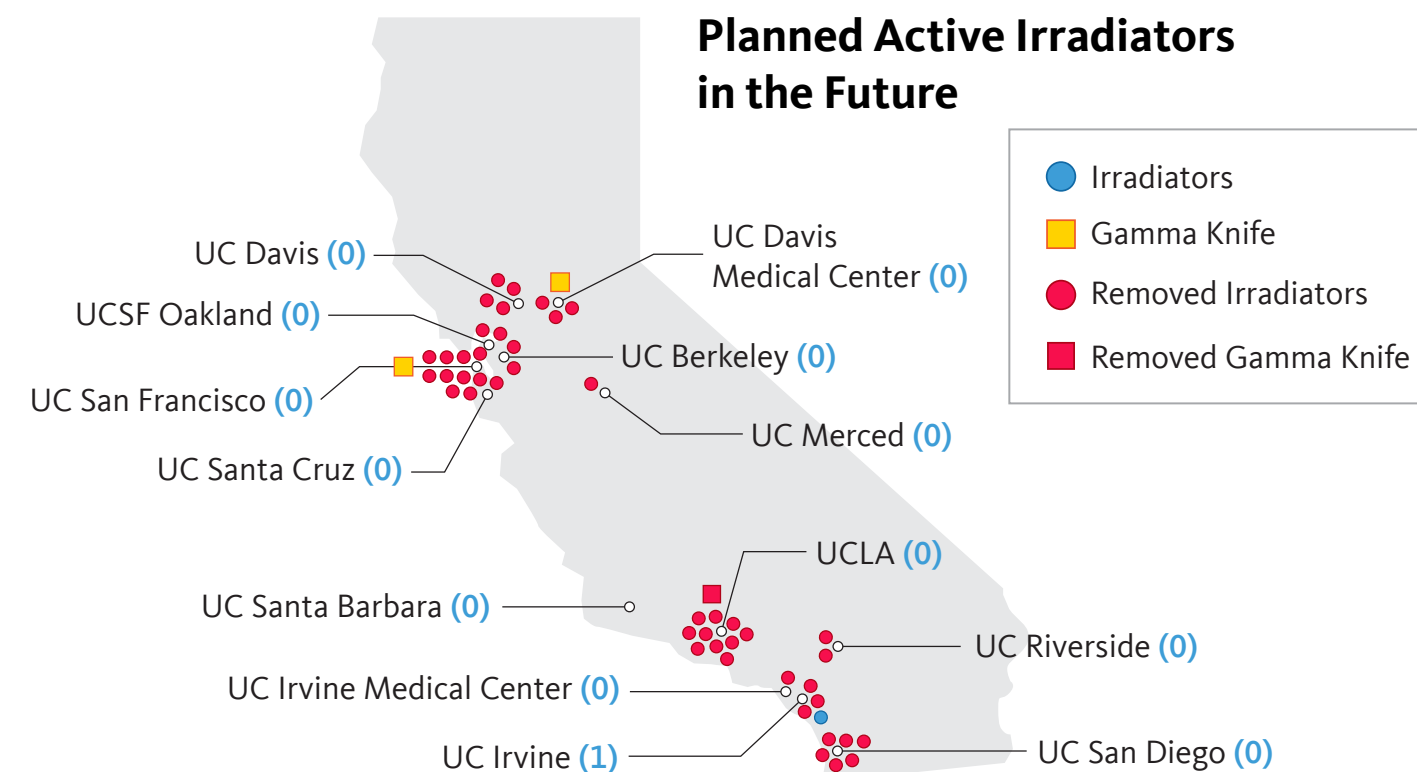Enter Number   🔍 Select Unit

Units for Dilution *
Enter Number   🔍 Select Unit

Re-entry interval *
Number of Hours before re-entering site
Enter Number   🔍 Select Unit

Done

UNIVERSITY OF CALIFORNIA   Center of Excellence

RADIATION Safety
UNIVERSITY OF CALIFORNIA

Radiation Safety

The Radiation Safety CoE provides expert guidance on radiation safety concerns within the University of California system. The CoE is supporting development of the UC Radiation software application and is managing the UC Cesium Irradiator Replacement Program (CIRP).

Accomplishments

- Provided Interim Radiation Safety Officer (RSO) support for UC Irvine (10/2022-8/2023)

- Removed 5 Cesium Irradiators from the following locations:
  - **UC Irvine**   1
  - **UC San Diego**   2
  - **UC San Francisco**   2

- Worked with Los Alamos National Labs to coordinate Cesium Removals with UC locations

- Worked with UC San Diego to get approval for the removal of the Pacific Hall Cesium Irradiator (not originally scheduled for removal), arranged increased funding from Sandia for an X-Ray Irradiator replacement, and negotiated with Precision X-Ray for a year of maintenance services

- Provided CIRP removal reports for each removal to Sandia National Lab and the Department of Energy (DOE)

- Provided Annual Satisfaction Report for all 25 UC X-Ray Irradiators to the DOE

- Coordinated and negotiated increased funding from Sandia and Precision Irradiation for 3 more X-Ray Irradiators

- Worked with the UC Cancer Consortium to assist multi-campus Radiation Safety Committee approvals of research protocols

Planned Active Irradiators in the Future

Legend:
- Irradiators
- Gamma Knife
- Removed Irradiators
- Removed Gamma Knife

UC Davis (0)
UC Davis Medical Center (0)
UCSF Oakland (0)
UC Berkeley (0)
UC San Francisco (0)
UC Santa Cruz (0)
UC Merced (0)
UCLA (0)
UC Santa Barbara (0)
UC Riverside (0)
UC Irvine Medical Center (0)
UC Irvine (1)
UC San Diego (0)

44 Total Cesium Irradiators to be removed

40 Removals completed (5 this year)

5 Cesium Irradiator removals planned

UNIVERSITY OF CALIFORNIA   Center of Excellence

Risk & Safety **TRAINING** *University of California*

Risk & Safety Training

The Risk & Safety Training CoE develops, distributes and analyzes systemwide training on environmental health and safety topics and risk-related initiatives. The CoE produces training in a variety of blended formats, including online (eLearning), instructor-led, tutorials (video), and webinars.

Accomplishments

- Produced over 45 resources, including systemwide training courses and materials, presentations, videos and handouts
- Managed course catalog of 250 courses and resources
  - Addressed 88 requests for accessibility, including issues not covered by course design, such as course transcripts and assistance with training completions.
- Completed 5 major training initiatives:
  - Clinical Laser Safety: *[eLearning]* Covering laboratory hazards, PPE, waste management and response
  - Export Controls: *[eLearning]* Update of course covering research shipments / transmissions outside of the U.S., regulations, research exclusions, and risks
  - Field Safety Leadership Videos: *[16 videos]* Provided A/V support, filming, & production of a conference held at UC Davis Bodega Marine Lab

- Sexual Violence/Sexual Harassment (SVSH) Prevention:
  - Employees *[eLearning, videos, handout, web]* online and instructor-led training course covering recognition, prevention, response, and resources
  - Supervisors *[eLearning]* course covering employee training, plus supervisory responsibilities
  - *Students [eLearning]* course covering student-specific scenarios and UC Policy
- Workplace Violence Prevention:
  - General Industry *[eLearning]* Campus course covering California Labor Code 6401.9 (SB 553) and UC policy. Updated for accessibility prior to handoff to UCOP Learning Management System (LMS) Team

- Healthcare *[eLearning]* UC Health course covering 8 CCR 3342. Updated for accessibility, and streamlined prior to handoff to the Health Systems EH&S Training CoE
- Updated the following websites:
  - Fieldwork Leadership: Collection of recordings and resources in support of Principal Investigators, instructors, graduate students and teaching activities at outdoor sites
  - SVSH Prevention: Houses campus-specific resources, related information, policies and instructor materials.
  - Maximum Allowable Quantities (MAQ): Central repository hosting regulations, campus-specific resources and guidance to meet MAQ Task Force Report & Recommendations

639,907
Online trainings completed in the Learning Management System

63,836
Evaluations received (73% are "good" or "very good")

281,634
YouTube views

Top 5 Videos

- Abusive Conduct
- Bloodborne Pathogens Awareness (non-research)
- Ergonomics
- Cryogen Safety
- COVID-19 Prevention

UNIVERSITY OF CALIFORNIA   Center of Excellence

Workplace Violence Prevention in Healthcare

The Workplace Violence Prevention in Healthcare CoE leads systemwide efforts to develop resources, identify best practices, and coordinate data collection and distribution to support all UC Health locations in achieving collective compliance of Workplace Violence Prevention in Healthcare programs. The CoE promotes consistency and standardization across the programs, which requires strategic planning and coordinated preparation at the systemwide level.

Accomplishments

- Provided program support to all UC Health locations
- Provided a systemwide program review summary report to the UC EH&S Leadership Council with a cross-site comparison spreadsheet which identified the following:
  - 10 best practices
  - 17 recommendations for systemwide standardization
- Began the development of "UC Responder Training"
  - Identified 24 Subject Matter Experts (SMEs) to assist with content development
  - Launched content development for 3 courses:
    - Verbal de-escalation
    - General & Personal Safety Measures
    - Customer Service
- Identified metrics for a UC Health Systemwide Dashboard tool support benchmarking between individual locations, including:
  - Incident Data
  - Workers' Comp Injury Data
  - Training Compliance

Completed 4 program reviews to improve and strengthen compliance with Cal/OSHA regulatory requirements and TJC Accreditation Standards:

Program	
➜ Benioff Children's Hospital - Oakland	• Final Report provided 9/27/2023 • 61 recommendations were provided
➜ UCSF Health	• Final Report provided 9/27/2023 • 56 recommendations were provided
➜ UC San Diego Health	• Final Report provided 12/4/2023 • 97 recommendations were provided
➜ UCI Health	• Final Report provided 12/14/2023 • 7 recommendations were provided

Centers of Excellence

RISK MANAGEMENT

→ Emergency Management Geographic Information System

→ Travel Registration and Insurance Services

→ Unmanned Aircraft System (UAS) Safety

→ Workplace Violence Prevention General Industry

UNIVERSITY OF CALIFORNIA   Center of Excellence

Emergency Management Geographic Information System

The Emergency Management GIS CoE was launched in July 2023 to expand risk management capabilities through development of uniquely tailored systemwide GIS resources, coordination with stakeholders, and support for highly specialized technical needs.

California's susceptibility to disasters presents the need for all UC locations to quickly collect, assess, synthesize, and distribute accurate incident information during the University's prevention, mitigation, response, and recovery work. GIS can be an important source of accurate incident information and a tool for collecting field data and/or presenting and sharing critical geospatial information. The ability to visually present incident information in relation to UC assets enhances situational awareness and helps UC leaders make informed decisions.
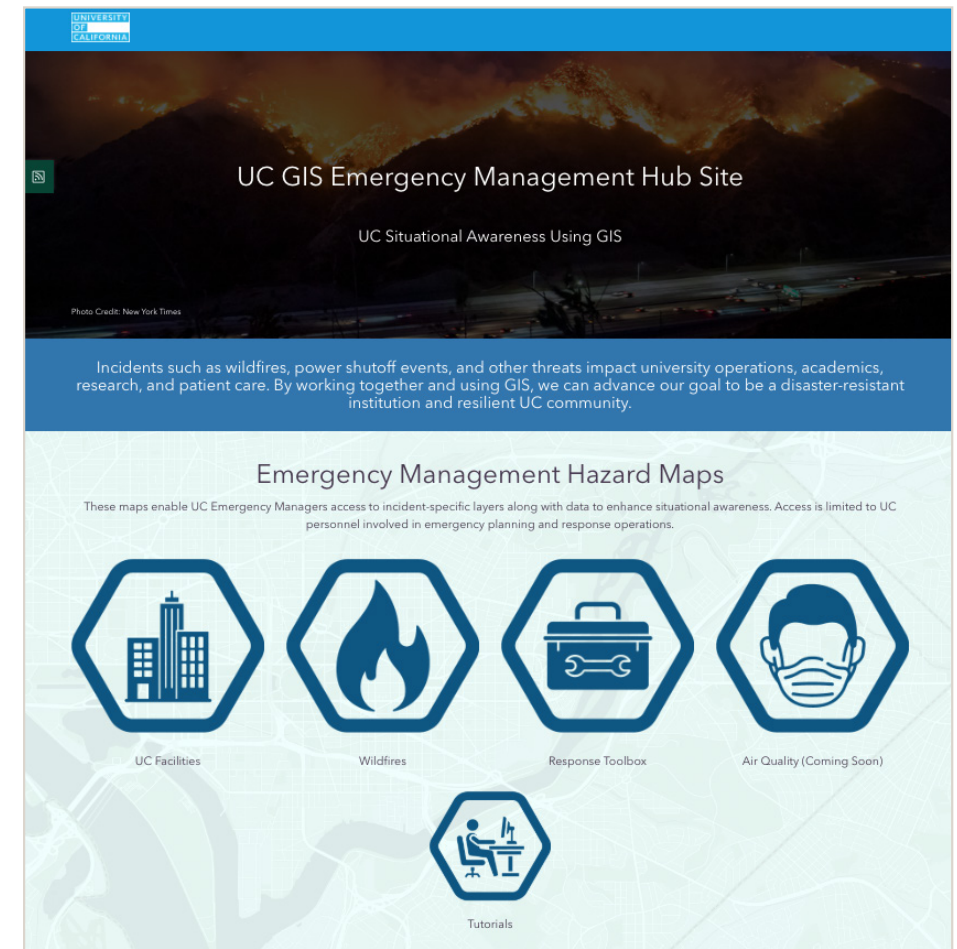
Accomplishments

- Completed the Systemwide Facility Data Layer Automation Project, which combines data from 12 campus sources managed locally and brings them together into a single GIS layer

- Oversaw evaluation of real-time alert notification software options and arranged piloting by over 80 UC personnel representing emergency management, law enforcement and transportation

- Identified and showcased GIS best practices for UC emergency management stakeholders

- Implemented the re-envisioned systemwide UC GIS Emergency Management (EM) landing webpage and associated applications

- Co-chaired the UC GIS for EM Subcommittee

- Coordinated with UC Santa Barbara student interns to further refine and enhance the systemwide UC GIS EM tool and develop their skill sets through coaching

10 Campuses, UCOP, and ANR provide an updated facility inventory monthly

~7,000 UC facilities included in the systemwide monthly inventory

1 GIS Layer with **> 6,000** UC facilities

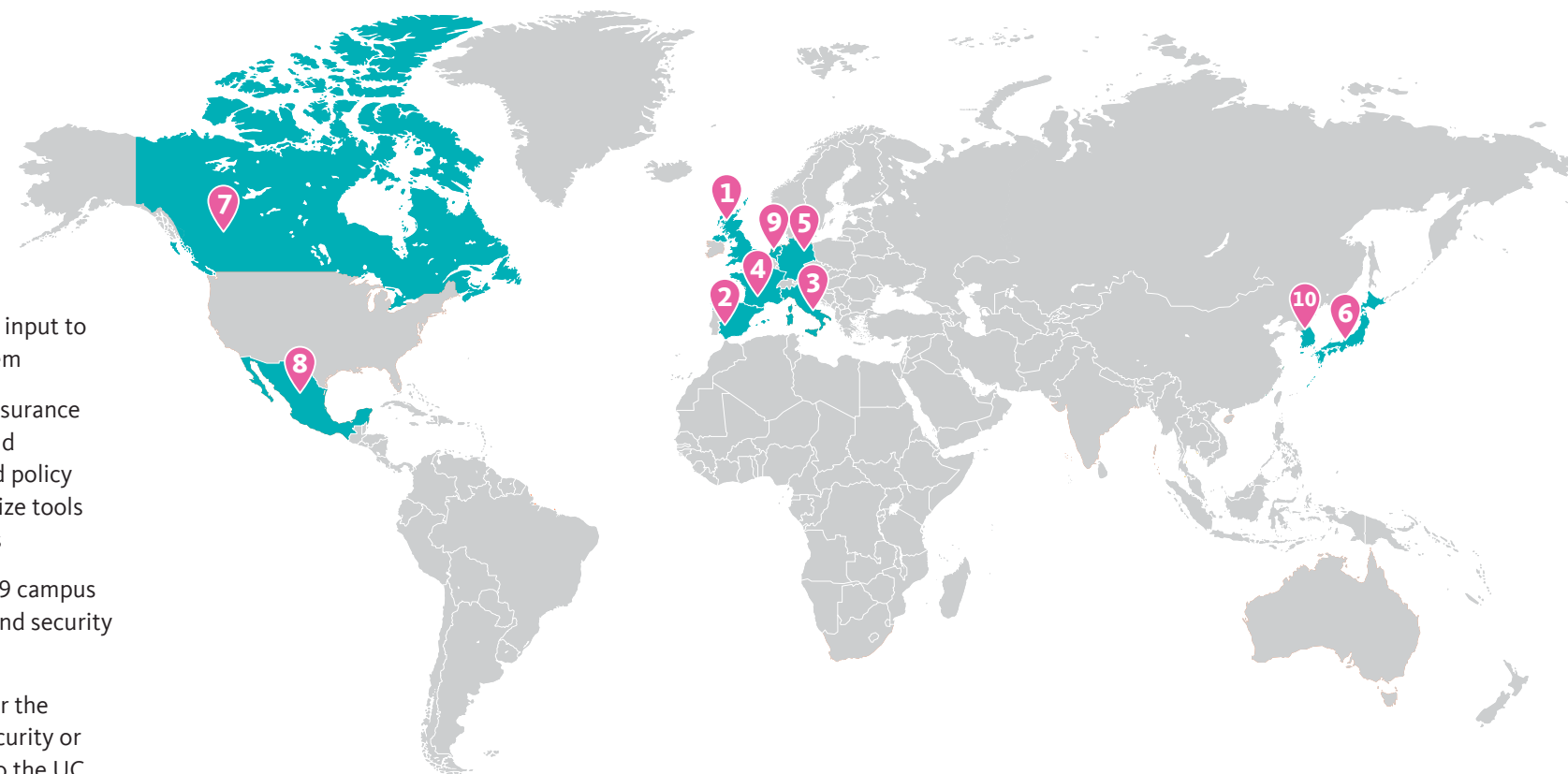UNIVERSITY OF CALIFORNIA   Center of Excellence

Travel Registration and Insurance Services

Travel Registration and Insurance Services (TRIS) expands access to travel insurance expertise and to information about the resources and services provided under the UCOP-contracted travel insurance policies. TRIS achieves this by developing tools, delivering training and answering questions from clients, including campus risk managers and leaders of international activities.

Accomplishments

- Engaged UC campus representatives to provide input to redevelop the UC Away travel registration system

- Addressed 100+ queries on various UC travel insurance topics to help campus risk management staff and international activity administrators understand policy benefits, rules and exclusions, and to better utilize tools and services provided by the insurance partners

- Identified and recommended enhancements to 9 campus and UCOP websites to clarify travel insurance and security services protocols and program details

- Facilitated the addition of $3,000 in coverage for the shipment of personal belongings following a security or medical evacuation or repatriation of remains to the UC travel insurance policies

- Partnered with campus crisis response managers on 11 complex international cases involving medical and mental health evacuations

- Worked towards the implementation of Crisis24's Horizon system for UC travelers

TOTAL NUMBER OF REGISTERED TRIPS

42,823

Top 10 Registered International Travel Destinations* FY 2023-24

#	Country	Registered Travelers		#	Country	Registered Travelers
1	United Kingdom	3,899		6	Japan	2,261
2	Spain	3,142		7	Canada	2,185
3	Italy	2,745		8	Mexico	1,762
4	France	2,629		9	Netherlands	1,475
5	Germany	2,598		10	South Korea	1,404

*by number of registered travelers

UNIVERSITY OF CALIFORNIA   Center of Excellence

UNMANNED AIRCRAFT SYSTEM SAFETY

Unmanned Aircraft System (UAS) Safety

The Unmanned Aircraft System Safety CoE provides guidance and training in support of the safe operation of Unmanned Aircraft Systems, commonly known as drones. The CoE curates the UC Drones technology solution that was developed in partnership with Risk and Safety Solutions to manage flight requests and the reporting of flight data. The CoE also created the Presidential Policy that provides the framework and basis for the safe use of drones within the UC system and maintains the related policy guidance document.
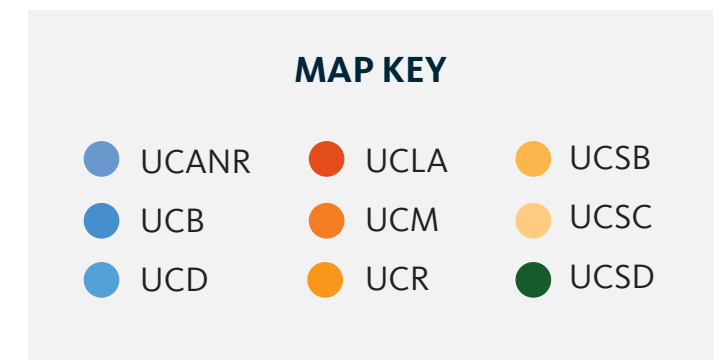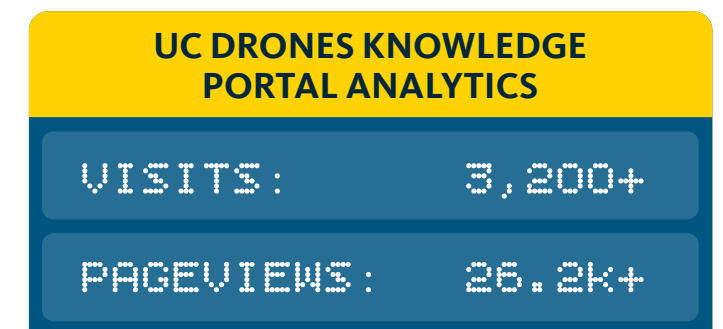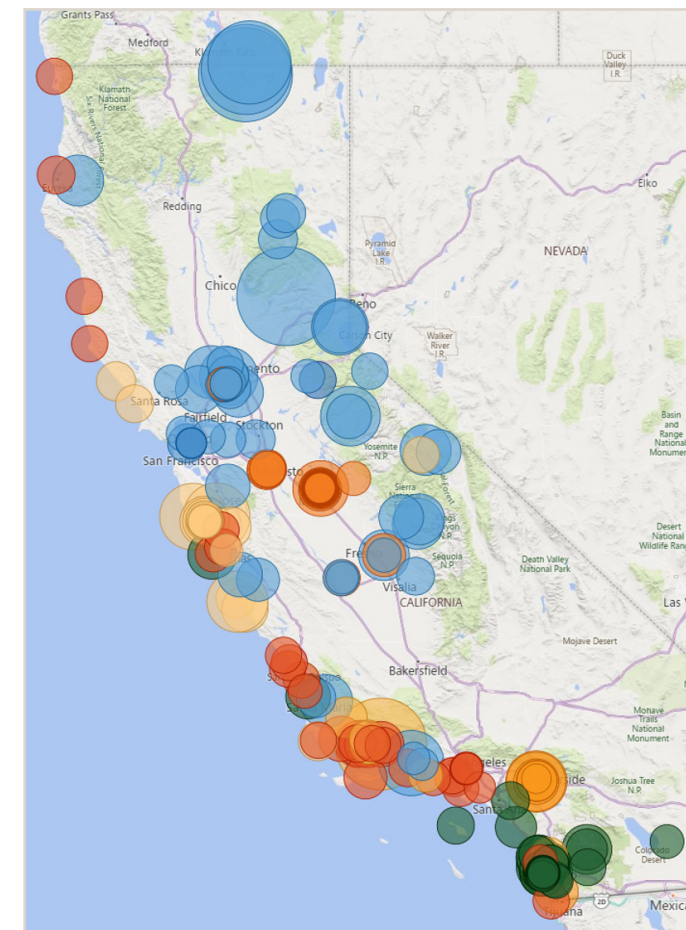
Accomplishments

Drones

- Purchased 50+ Remote ID Broadcast retrofit modules and distributed them to priority drones to ensure their continued use before the Federal Aviation Administration's (FAA) Remote ID deadline on March 16, 2024

- Developed a searchable table of commercially available drones enabling users to sort by size, country of origin, payload configurations as well as different regulatory categorizations

- Updated Online Training and Guidance:
  - Updated Cybersecurity Guidance, addressing recent legislation regarding the use of DJI brand drones and other drones developed and manufactured in China
  - Updated page for information on compliance for Remote Identification regulations, including recommendations for retrofit modules and instructions for editing registration
  - Updated safety tool for estimating Visual Line of Sight for small drones and added new functionality to estimate radio signal disruption zones

- Scheduled over 150 consultations on various UC drone-related issues and projects, including concerns about the use of DJI drones with State or Federal funds, Remote Identification regulations and innovative new technologies

High-Powered Rocketry

- Coordinated outreach and support to high powered rocketry student organizations across the UC system

- Organized and hosted rocketry safety training and the UC High-Powered Rocketry Summit for student leaders and UC leadership to open a dialog on improving safety and communication

FLIGHT HOURS

480   -20% from FY22-23

SAFETY INCIDENTS

7   -22% from FY22-23

UAS MISSIONS

1128   +5% from FY22-23

DRONES IN THE UC SYSTEM

912   +59 from FY22-23

UAS Flight Missions

AVERAGE APPROVAL TIME

< 9 HOURS

UC DRONES KNOWLEDGE PORTAL ANALYTICS

VISITS: 3,200+

PAGEVIEWS: 26.2k+

MAP KEY

- UCANR
- UCB
- UCD
- UCLA
- UCM
- UCR
- UCSB
- UCSC
- UCSD

UNIVERSITY OF CALIFORNIA   Center of Excellence

Workplace Violence Prevention GENERAL INDUSTRY

Workplace Violence Prevention General Industry

The Workplace Violence Prevention (WPVP) in General Industry CoE leads systemwide efforts to develop resources, identify best practices, and coordinate data collection and distribution to support all UC locations in achieving collective compliance of Workplace Violence Prevention in General Industry programs. The CoE promotes consistency and standardization across the programs, which requires strategic planning and coordinated preparation at the systemwide level.

On September 30, 2023, Governor Newsom signed into law Labor Code: 6401.9., which details new occupational safety measures for California employers. This legislation mandated the development and implementation of a WPVP Program by July 1, 2024, to help ensure the safety and well-being of all employees, students, and visitors.

Accomplishments

- Collaborated with UC Legal to interpret the law and define the scope as applicable to UC
- Partnered with UC Legal and UCOP EH&S to provide informational webinars to UC stakeholders
- Coordinated a systemwide Subject Matter Expert working group to standardize the development of WPVP resources
- In conjunction with UC Risk and Safety Solutions, created a UC-specific WPVP program tool, including the following elements:
  - A template for developing site-specific WPVP plans
  - A hazard identification template tool
  - A centralized WPVP reporting portal for all employees to report incidents of workplace violence, which will also serve as the mechanism to produce the mandatory violent incident log
- Coordinated with UC Risk and Safety Training CoE and the UCOP Systemwide LMS Team to develop a WPVP training that is required for every UC employee

Campus	Number of Incidents Reported
LBNL	0
ANR	1
UC Berkeley	17
UC Davis	13
UC Irvine	0 *(Using their own to track WPVP)*
UCLA	4
UC Merced	2
UCOP	0
UC Riverside	4
UC Santa Barbara	2
UC Santa Cruz	12
UC San Diego	5
UC San Francisco	3

Centers of Excellence

WELLNESS

➜   WorkStrong
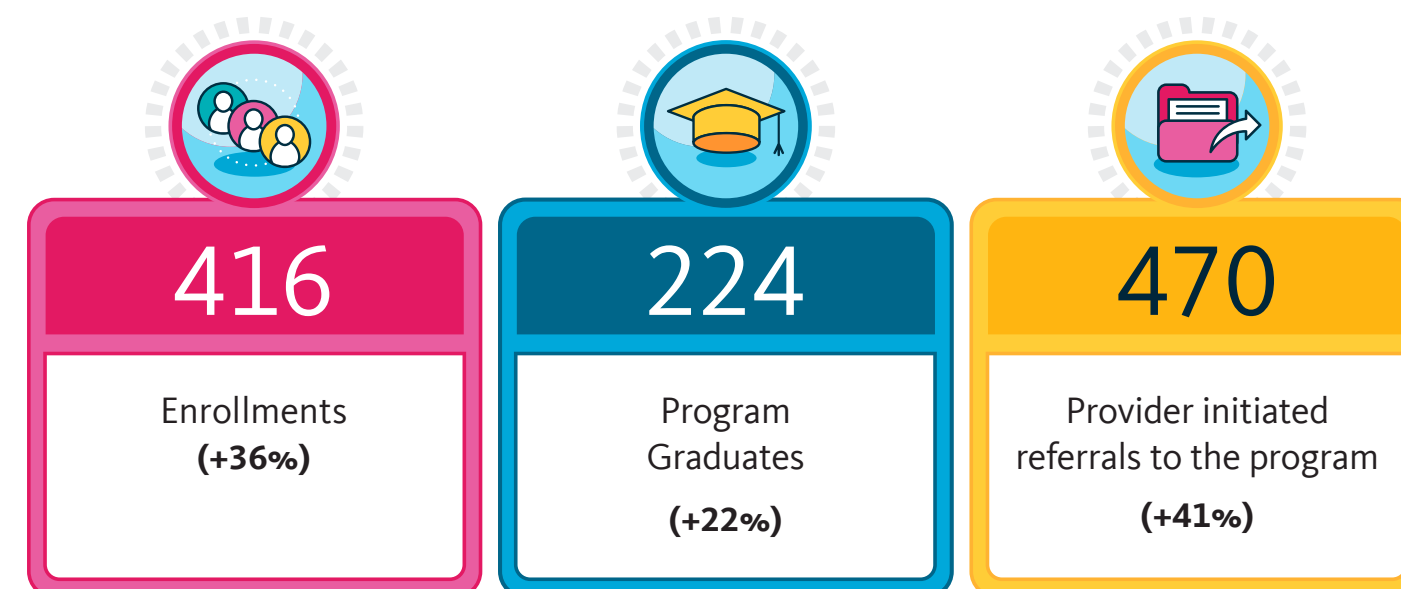
UNIVERSITY OF CALIFORNIA   Center of Excellence

WorkStrong Program

The WorkStrong program is designed to promote recovery from and prevent future workplace injures with the expertise and collaborative support of UC staff in wellness programs, occupational health and recreational services. Participation in WorkStrong will decrease the likelihood of repeat occupational injuries and result in improved worker health, fitness, and overall well-being. The WorkStrong CoE is a shared resource for all locations to support increased enrollment in local WorkStrong programs.

Accomplishments

- Rolled out two new requirements for the local UC WorkStrong programs to foster growth and increase awareness of the program across UC
  - Each location will hold 4 WorkStrong Partners Meeting each year led by the local WorkStrong Coordinator and attended by all partners at each location
  - WorkStrong Coordinators will make at least 4 short presentations about the program each year to help spread the word, engage with departments at high risk for injury and other interested parties across UC in an effort to increase the opt in rate
- Conducted 4 virtual site visits and created action plans to facilitate program growth at those locations.
- Developed strategies to solve barriers to participation
  - Implemented remote WorkStrong services leveraging UCLA Trainers and Dietitians to support other locations during staffing transitions.
- Reviewed funding needs and reconciliations with all UC locations to ensure cost efficient administration
- Performed quarterly program goals check-ins with all UC locations to support growth
- Prepared UC Merced for relaunching UC WorkStrong

416 Enrollments **(+36%)**

224 Program Graduates **(+22%)**

470 Provider initiated referrals to the program **(+41%)**

4 Virtual site visits conducted

➜ UC Irvine (Campus and Health) - August 2023

➜ UC Santa Cruz - September 2023

➜ UC Berkeley - October 2023

➜ UC Davis - April 2024

UC BERKELEY   UC DAVIS   UC SANTA CRUZ   UC IRVINE