

Office of Research

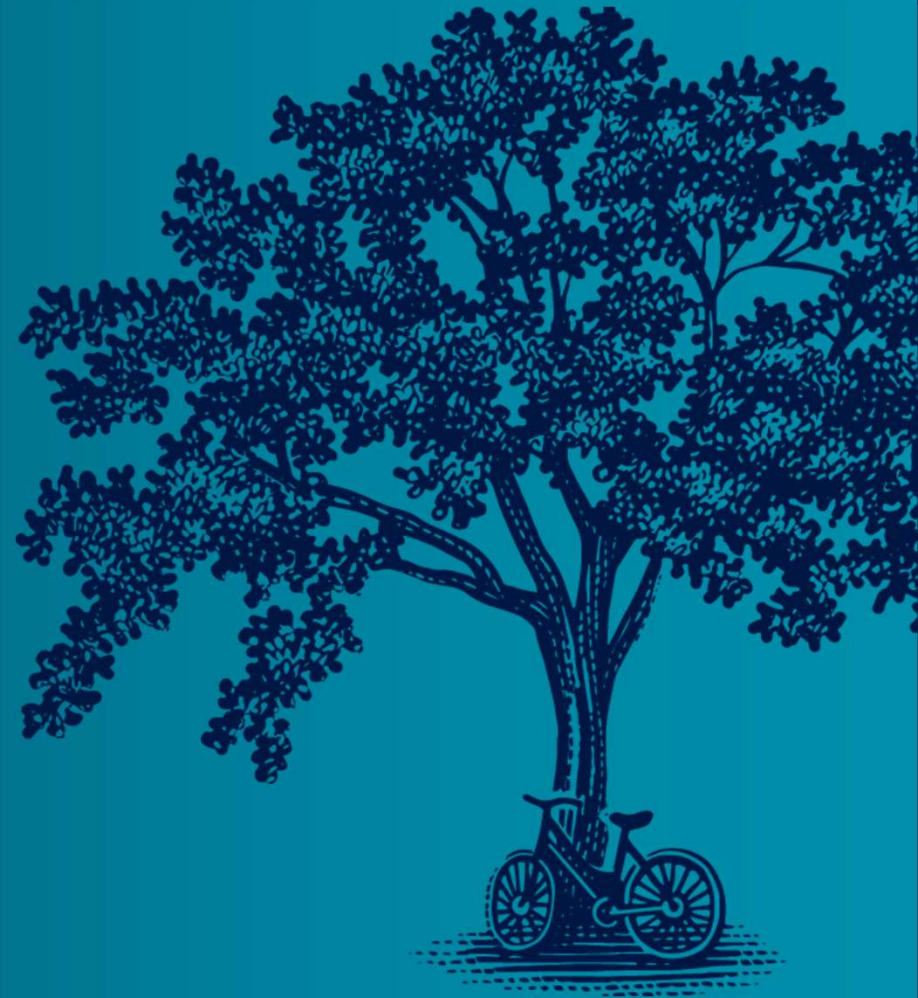
www.research.ucdavis.edu

Denise Ehlen

Associate Vice Chancellor

dmehlen@ucdavis.edu

UCDAVIS
OFFICE OF RESEARCH



Organizational Structure

Prasant Mohapatra
Vice Chancellor for Research

Research Administration & Central Services

Denise Ehlen
Associate Vice Chancellor

- IRB and IACUC Administration
- Sponsored Programs Office

Interdisciplinary Research & Strategic Initiatives

Cristina Davis
Associate Vice Chancellor

- Interdisciplinary Research Support
- Research Programs Administration
- Strategic Initiatives

Innovation and Technology Commercialization

Denise Ehlen
Interim Associate Vice Chancellor

- InnovationAccess
- Venture Catalyst

Research Core Facilities Program

Cristina Davis
Associate Vice Chancellor

Research and Teaching Animal Care Program

Laurie Brignolo
Attending Veterinarian and Exec Director

- Campus Veterinary Services

Resources to Help You Succeed



Funding Opportunities



Project Development and Proposal Writing



Proposal Submission



Research Collaboration and Seed Funding



Early-Career Researcher Support



Research Unit Development



Strategic Partnerships



Research Promotion



Proof of Concept Grants



Invention Protection & Licensing



Startup Formation

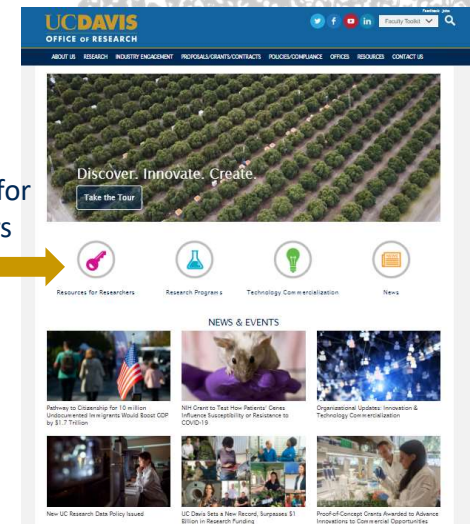


Business Incubators

To View the Full List:

research.ucdavis.edu

Resources for
Researchers



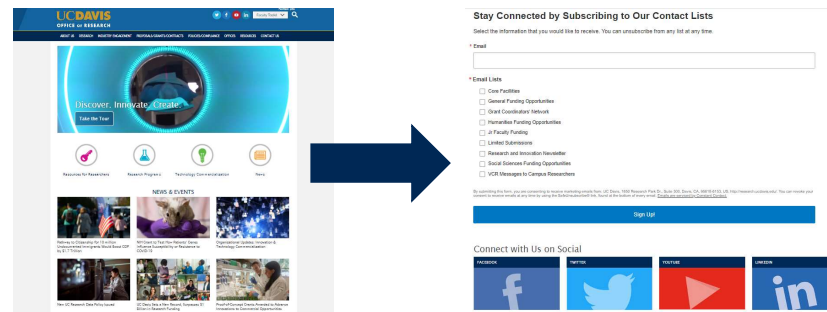
Get Connected

Signup to receive the latest news, opportunities and events

VISIT: research.ucdavis.edu/connect

Join us on November 1 at a special research celebration event.

Register Today!



The image shows a screenshot of the UC Davis Office of Research website. On the left, there's a navigation menu with links like 'HOME', 'ABOUT', 'RESEARCH', 'CONTACT', 'FAQ', 'SUPPORT', 'DONATE', and 'ABOUT US'. The main content area features a large circular graphic with the text 'Discover. Innovate. Create.' and a 'Join the Team' button. Below this, there are sections for 'Research Opportunities', 'Research Projects', 'Technology Development', and 'News & Events'. A large blue arrow points from the website to a signup form on the right.

Stay Connected by Subscribing to Our Contact Lists

Select the information that you would like to receive. You can unsubscribe from any list at any time.

* Email

* Email Lists

- ☐ Core Facilities
- ☐ General Funding Opportunities
- ☐ Grant Coordination Network
- ☐ Memoranda Funding Opportunities
- ☐ PI Funding Opportunities
- ☐ Limited Submissions
- ☐ Research and Innovation Newsletter
- ☐ Social Science Funding Opportunities
- ☐ UCD Visages to Campus Researchers

By submitting this form, you are consenting to receive communications from UC Davis. We will not share your information with any third party without your permission. You can unsubscribe at any time.

Sign Up

Connect with Us on Social

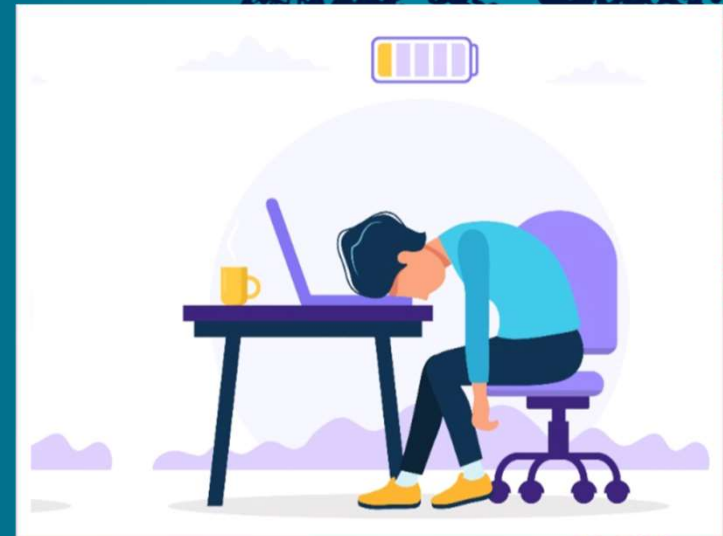
Facebook Twitter YouTube LinkedIn



Research Development at UC Davis

Sheryl Soucy-Lubell, PhD
Interdisciplinary Research Support
Interdisciplinary Research &
Strategic Initiatives
irs@ucdavis.edu

UCDAVIS
OFFICE of RESEARCH



Objectives

Establish good grant writing habits



Fund your research program

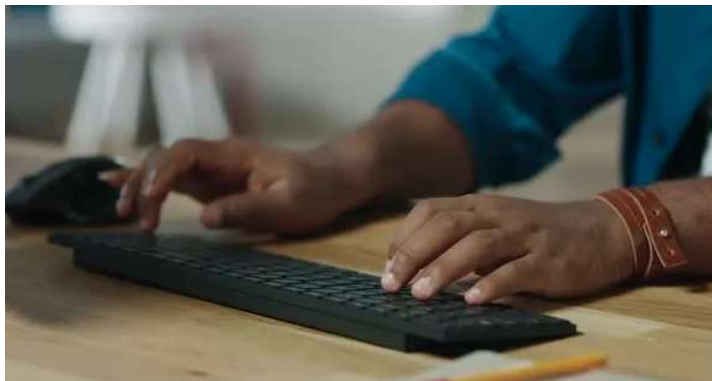


Grant Writing is part of our culture

Self Assessment

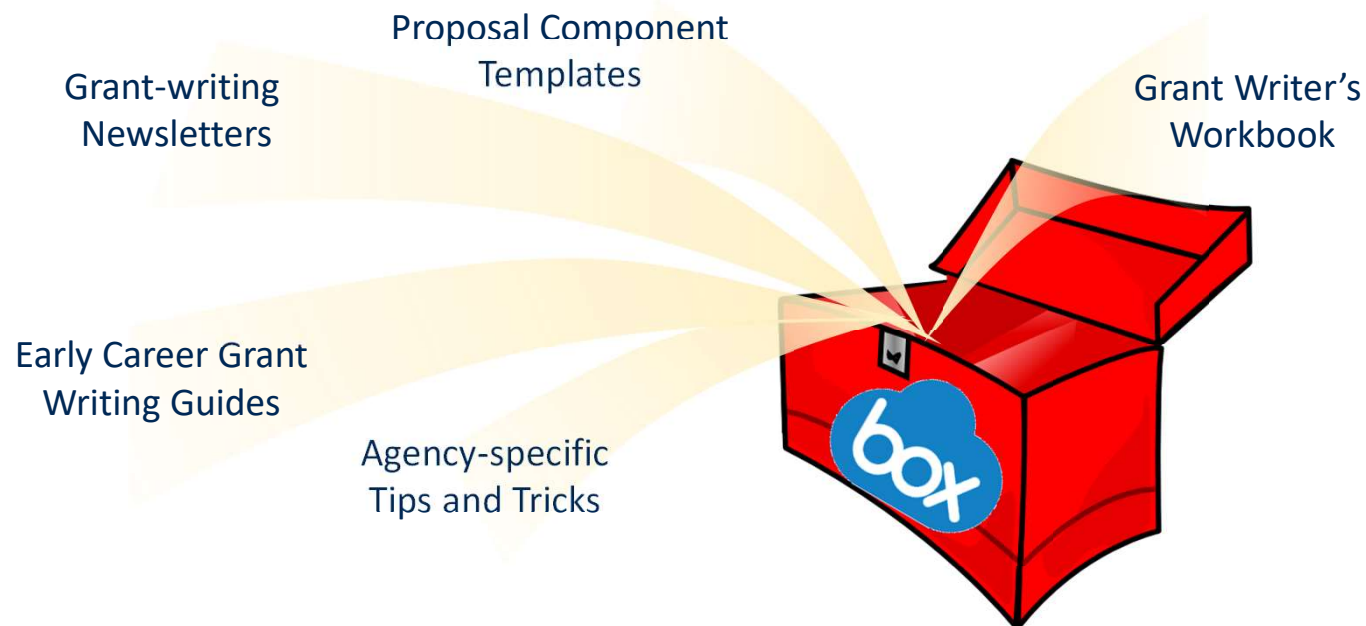
Write Early and Often

Don't be Shy



Grant-writers toolkit

Research Development Toolbox

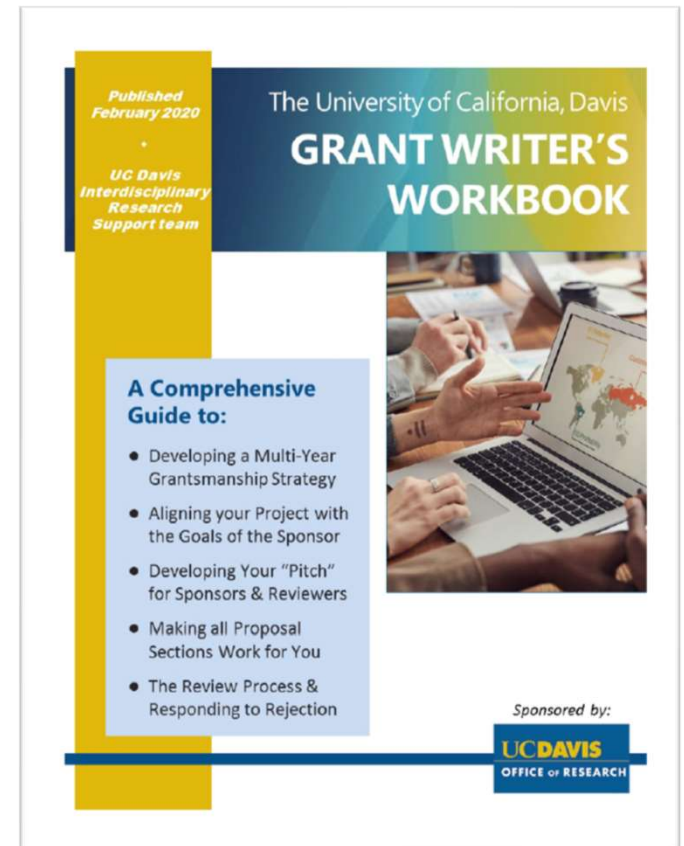


<https://ucdavis.box.com/s/22rxfl35wv712f7l30sqt756ounylg>

<https://tinyurl.com/bdewy4bt>

The Grant Writer's Workbook

- Part I: Orient Yourself: Understand the research landscape at UC Davis
 - Office of Research
 - Your Department and School
 - Other Offices and Services
- Part II: Developing Your Grantsmanship Strategy
 - Do a SWOT analysis of your own research program
 - Make a 5- year plan



Action Items

Download the Grant Writer's Workbook

Complete Part II of the workbook

- Take the "Grant Readiness: Self Assessment"
- Turn this self assessment into a SWOT analysis
- Make a 5-year plan and a 1-year plan

RESOURCES

- Grant writers' Workbook Parts I and II
- IRS team workshops

GRANT READINESS: FIVE-YEAR PLAN

YEAR 1:

PROPOSALS:

ACTIVITIES:

OUTCOMES:

YEAR 2:

PROPOSALS:

ACTIVITIES:

OUTCOMES:

proposal strategies and (2) request copies of their proposals and reviewers' comments?

Action Items

Check out our (recorded and new) workshops

For example...



FINDING FUNDING

Learn a 3-step method for finding the right funding opportunities, and apply it using the web's most powerful grant search database!



DEVELOPING YOUR PITCH

To engage reviewers and ensure a proposal makes it past the first round of review, researchers need a concise, compelling research "pitch."



BUDGET

With guidance from veteran financial analysts, learn what funders look for in financials and discover the top qualities of strong budgets.



REVISE AND RESUBMIT

Most proposals are funded on the second or third try. Learn how to approach the resubmission process and what pitfalls to avoid.

Action Items

Check out our (recorded and new) workshops



Mondays: Skill Share

Learn about the week's topic from Research Development experts; explore the challenges of mastering the topic effectively and engage with evidence-based tools and tips that can help you do so.

Tuesdays: Shop Talk

Chat with someone "in the trenches" working on/in/around the topic under discussion, who can speak about their experiences, share their suggestions—and give invaluable tips to aid your success.



UC Davis Research Development Quick Chats

Every M,T,W via Zoom
12:10-12:25pm



Wednesdays: Try & Apply

Practice what you've learned from experts and peers, using materials provided by facilitators as your guide. Take advantage of plentiful Q&A time to clarify sticking points and establish next steps once the week is out.

Themes for 22-23: **Funding Success at Mid-Career**
and **Starting a Research Center**

Make a Writing Plan



Make a Writing Plan: Action Items

Develop good writing

- Set a schedule
- Draft a one-pager

Never submit anything without review

- Create a peer-review group among your colleagues
- Contact program officer with your ideas

Volunteer to review grants

• RESOURCES

- Research Development Toolbox: Writing a one-pager
- Grant Writer's Workbook, Parts III and IV

One-Pager TEMPLATE



Long-Term Goal: Describe your *ultimate* goal in pursuing the project—typically something involving major steps toward addressing the problem/question/challenge (**1 sentence**)
e.g., “Our long-term goal is to establish a first-of-its-kind Center for Arctic Fermentation Studies, designed around a convergent approach to the co-production of knowledge....”

Project Goal: Explain the goal you will achieve *during the period of the grant*—typically a significant portion of work related to your long-term goal, but not often encompassing the entire long-term goal (**1**

Get Yourself Known



Get Yourself Known: Action Items

Talk to Program Officers whenever possible

- Washington
- Zoom
- professional meetings

Self-promotion

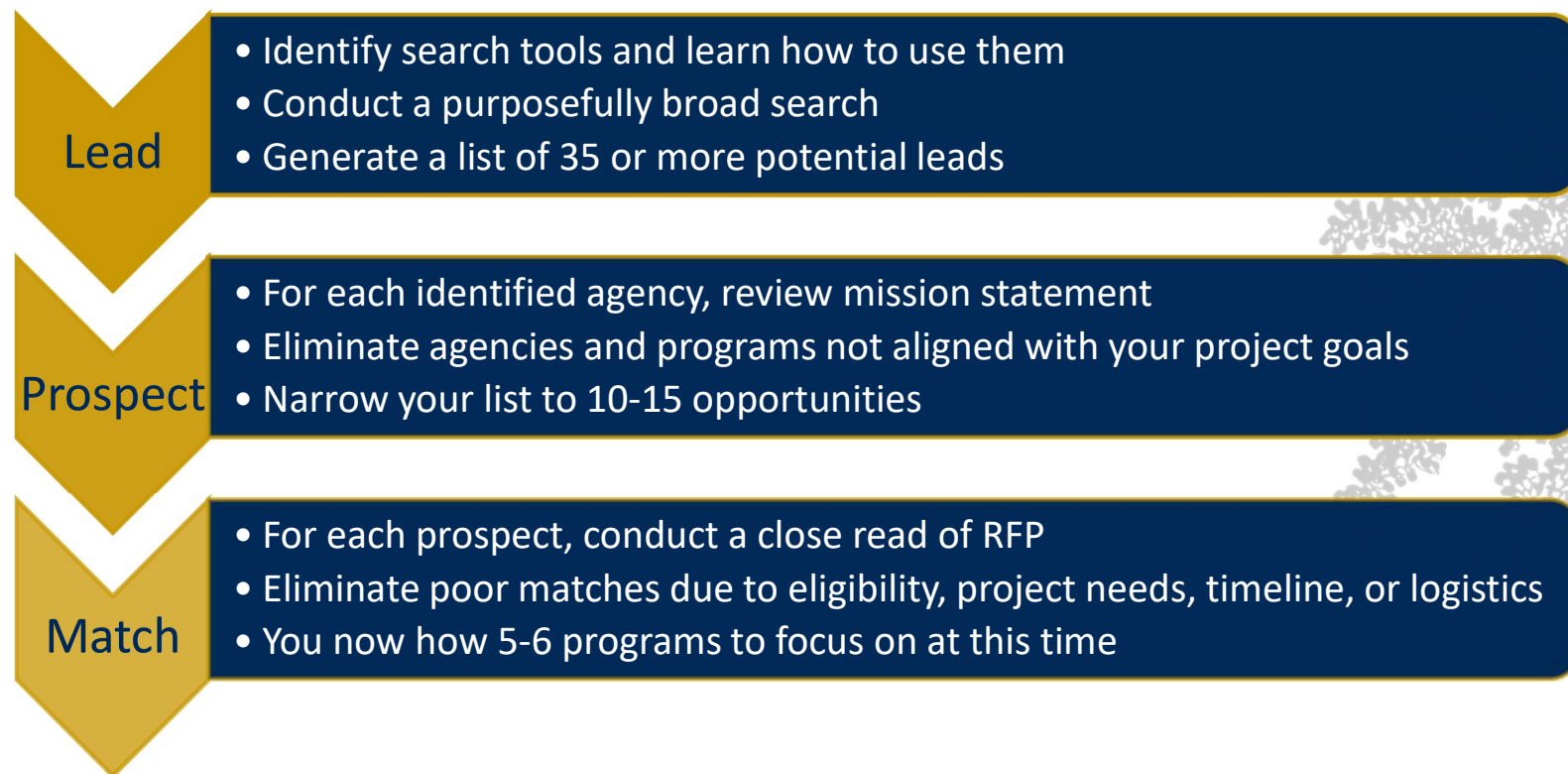
- Broadcast your good press



Fund your Research Program



Identify Funding Opportunities



From Part III of the Grant Writer's Workbook

Identify Funding Opportunities

October 14, 2022 [Having trouble viewing this email? Click here.](#)

UC DAVIS
OFFICE OF RESEARCH

Research Funding Update

Announcements

Sustainable Agriculture & Food Systems - Small Grants Program

 UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

Deadline: Tuesday, January 10, 2023 by 12:00 PM
[Apply Here](#)

UC Sustainable Agriculture Research and Education Program (UC SAREP) is pleased to announce the release of the request for proposals for our 2023-24 Small Grants Program. The program funds research, education and demonstration projects that support the development of sustainable community food systems and environmentally-sound and economically viable farming enterprises.

[Read more...](#)

Events

UC Climate Action Webinar & Funding Opportunity  UNIVERSITY OF CALIFORNIA
RESEARCH INITIATIVES

Next Monday, October 17, 2022 from 12:00 - 1:30 PM
[Virtual, register here](#)

The UC Vice President for Research and Innovation invites you to learn about the **UC Climate Action Research** funding and **upcoming Requests for Proposals (RFPs)**. The webinar will be recorded for those unable to attend.

The State of California has allocated \$100 million to the University of California to fund Climate Action research projects that address critical state needs. More specifically, the UC Office of Research and Innovation will be releasing RFPs inviting proposals spanning the full range of disciplines and cross-disciplines that lead to rapid, translational and applied research outcomes.

[Register here...](#)

New Funding Opportunities

Multidisciplinary

[W. M. Keck Research Grants in Science & Engineering and Medical Research Limited Submission - Extended Deadline](#)
Sponsor: W. M. Keck Foundation
Internal Deadline: October 24, 2022
Sponsor Concept Deadline: January 05, 2022
Contact: [Traci Galbaugh](#), Managing Executive Director of Foundation Engagement

[Earth System Science and Modeling Research in Support of the Disaster](#)
Sponsor: National Oceanic and Atmospheric Administration (NOAA)
Sponsor Deadline: January 26, 2023

[Biological Anthropology Program Senior Research Awards \(BA-SR\)](#)
Sponsor: National Science Foundation (NSF)
Sponsor D

[Dual Purpose with Dual Benefit: Research in Biomedicine and Agriculture Using Agriculturally Important Domestic Animal Species \(R01\)](#)
Sponsors: NIH and the USDA
Sponsor Deadline: December 15, 2022

Agriculture & Environmental Science

[Request for Information: Designing a Global Digital Integration Hub to Enhance Collaboration](#)
Sponsor: Foundation for Food & Agriculture Research
Sponsor Comment Deadline: November 23, 2022
Contact: [Molly McCarthy](#), Senior Director of Foundation Engagement

[Targeted Airshed Grant Program](#)
Sponsor: Environmental Protection Agency (EPA)
Sponsor Deadline: December 08, 2022

[Solid Waste Management Grant Program](#)
Sponsor: US Department of Agriculture (USDA)
Sponsor Deadline: December 31, 2022

[Central Valley Project Conservation Program and Central Valley Project Improvement Act Habitat Restoration Program Grants](#)
Sponsor: Bureau of Reclamation (DOI)
Sponsor Deadline: November 30, 2022

<https://lists.ucdavis.edu/sympa/subscribe/fundingjrfaculty/index.html>



SCAN ME

Identify Funding Opportunities

The screenshot shows the UC Davis Office of Research website. The header includes the UC Davis logo, social media icons, and a search bar. The navigation menu lists: ABOUT US, RESEARCH, INDUSTRY ENGAGEMENT, PROPOSALS/GRANTS/CONTRACTS, POLICIES/COMPLIANCE, OFFICES, RESOURCES, and CONTACT US. The main content area is titled 'Funding Opportunities & Limited Submissions' and includes a brief description of the programs. Below the text are two images: one of a lightbulb made of money labeled 'Find Funding' and another of a hand using a stamp labeled 'Limited Submissions'.

UC DAVIS
OFFICE OF RESEARCH

Feedback: Jobs
Faculty Toolkit

ABOUT US RESEARCH INDUSTRY ENGAGEMENT PROPOSALS/GRANTS/CONTRACTS POLICIES/COMPLIANCE OFFICES RESOURCES CONTACT US

Browse: Home / Proposals/Grants/Contracts / Funding Opportunities & Limited Submissions

Funding Opportunities & Limited Submissions

The Office of Research supports campus researchers in finding funding through the Funding Opportunities Program. Additionally, the Limited Submissions Program coordinates the internal process for extramural funding opportunities that impose an institutional limit on proposals. Select the program you are interested in learning more about below.


Find Funding

Limited Submissions

<https://research.ucdavis.edu/proposals-grants-contracts/funding-opportunities/>



Know Your Tools

 **Pivot-RP**

Accelerate your Research Funding


- Search Pivot® and Research Professional - the most comprehensive and trusted source for global funding information
- Save searches and Track funding opportunities
- Discover collaborators
- Get tailored funding recommendations and alerts
- Gain insights from previously awarded grants
- Inform your funding strategies with our authoritative global funding news and analysis service

[Learn more](#)


Sign in to use Pivot-RP


[Forgot your password?](#)

Sign In



Use login from my institution



 [Create account](#)

Know Your Tools

The screenshot shows the UC Davis Office of Research website. A large pink arrow points from the title 'Know Your Tools' to the 'Funding' link in the top navigation bar. Another pink arrow points from the 'My Funding Opportunities' section to the 'Public Curated Lists' table. A third pink arrow points from the 'Tracked Opps' link in the 'My Funding Opportunities' section to the 'Aging Research' entry in the 'Public Curated Lists' table.

Public Curated Lists

<input checked="" type="radio"/> Aging Research	17
<input type="radio"/> Agriculture and Food...	329
<input type="radio"/> Alt Meat	6
<input type="radio"/> Artificial Intellige...	86
<input type="radio"/> Australia	11
<input type="radio"/> BRAIN	161
<input type="radio"/> Cannabis research	17
<input type="radio"/> Carbon Capture	17
<input type="radio"/> Citizen Science	11
<input type="radio"/> Climate Science	443
<input type="radio"/> Coronavirus	28
<input type="radio"/> COVID-19	545
<input type="radio"/> Data Science	11791
<input type="radio"/> Diversity Grants	293
<input type="radio"/> Early Career	4548
<input type="radio"/> Early Career CAES	133
<input type="radio"/> Early Career Health ...	1154
<input type="radio"/> Early Career Humanities	230
<input type="radio"/> Early Career Life Sc...	346
<input type="radio"/> Early Career Social ...	595
<input type="radio"/> Equipment Grants	22
<input type="radio"/> Fulbright Scholar Pr...	31

My Funding Opportunities

- Tracked Opps
- Saved Searches
- Advisor
- Curated Opps

Have questions?
Email Meg Sparling at limsubmissions@ucdavis.edu

[Philanthropy News Digest](#) (foundation and non-profit funding)
[COVID-19 Research Funding](#)

Consider some of these funding options

- Workshop Grants
 - Leadership opportunities
 - Develop relationships
 - Impress letter writers
- “Sweeps” month
 - Federal agencies must spend their remaining funds before fiscal close every year
- Student Funding
 - Student Fellowships
 - Institutional Training Grants



Early Career Funding

GRANTS CALENDAR	NATIONAL SCIENCE FOUNDATION (NSF)	NATIONAL INSTITUTES OF HEALTH (NIH)	ENVIRONMENTAL PROTECTION AGENCY (EPA)	DEPARTMENT OF AGRICULTURE (USDA)	DEPARTMENT OF ENERGY (DOE)	DEPARTMENT OF DEFENSE (DOD)	NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)	PRIVATE FOUNDATIONS
WINTER-SPRING	NSF Investigator-Initiated Research Project (Round 1): Spring *date varies by division	NIH R01 Research Grant (Round 1): Feb 5	USDA AFRI Standard Grant: RFAs issued in Spring, due in Summer	USDA AFRI Conference Grant: RFAs issued in Spring, due in Summer	DOD Army Research Office (ARO) YOUNG INVESTIGATOR PROGRAM (YIP): Open	DOD Defense Advanced Research Projects Agency (DARPA) YOUNG FACULTY AWARD (YFA): January	NEH Fellowship (EARLY CAREER): April	Packard Fellowship for Science and Engineering (EARLY CAREER) - Limited Submission: February
		NIH - K - CAREER DEVELOPMENT Grant (Round 1): Feb 12						Pew Scholars Program Biomedical Sciences (YOUNG INVESTIGATORS) - Limited Submission: April
SUMMER	NSF EARLY CAREER Program: July (last Wed)	NIH R21 Exploratory Research Grant (Round 1): Feb 16	USDA AFRI Coordinated Agricultural Project (large-scale, multi-function): RFAs issued in Spring, due in Summer	USDA AFRI Food and Agricultural Science Enhancement, NEW INVESTIGATOR Grant: RFAs issued in Spring, due in Summer	DOD Air Force Office of Scientific Research (AFOSR) YOUNG INVESTIGATOR PROGRAM (YIP): June	DOD Office of Naval Research (ONR) YOUNG INVESTIGATOR PROGRAM (YIP): July	NEH Summer Stipends Limited submission: July	Hartwell Foundation Individual Biomedical Research Fellowship - Limited Submission: June
		NIH R01 Research Grant (Round 2): Jun 5						Johnson & Johnson, WiSTEM2D Scholars Award Program - Limited Submission: August
FALL	NSF Investigator-Initiated Research Project (Round 2): Fall *date varies by division	NIH R01 Research Grant (Round 3): Oct 5	EPA Science to Achieve Results Research Grant: Varies by research area; must respond to open RFAs	DOE EARLY CAREER Research: September	NEH Infrastructure and Capacity Building Challenge Grants: September	W.M. Keck Foundation Science & Engineering and Medical Research Program - Limited Submission: October	Moore Inventor Fellows - Limited Submission: October	
	NSF Research Traineeship: September	NIH - K - CAREER DEVELOPMENT Grant (Round 3): Oct 12						
	NSF Major Research Instrumentation Grant: Limited Submission: October	NIH R21 Exploratory Research Grant (Round 3): Oct 16						



Contact Us!

Interdisciplinary Research Support

irs@ucdavis.edu

Do your homework!

- Download the workbook
- Do a self assessment
- Write some one-pagers
- Form a working group
- Promote yourself
- Set up your Pivot profile with email alerts
- Attend our events

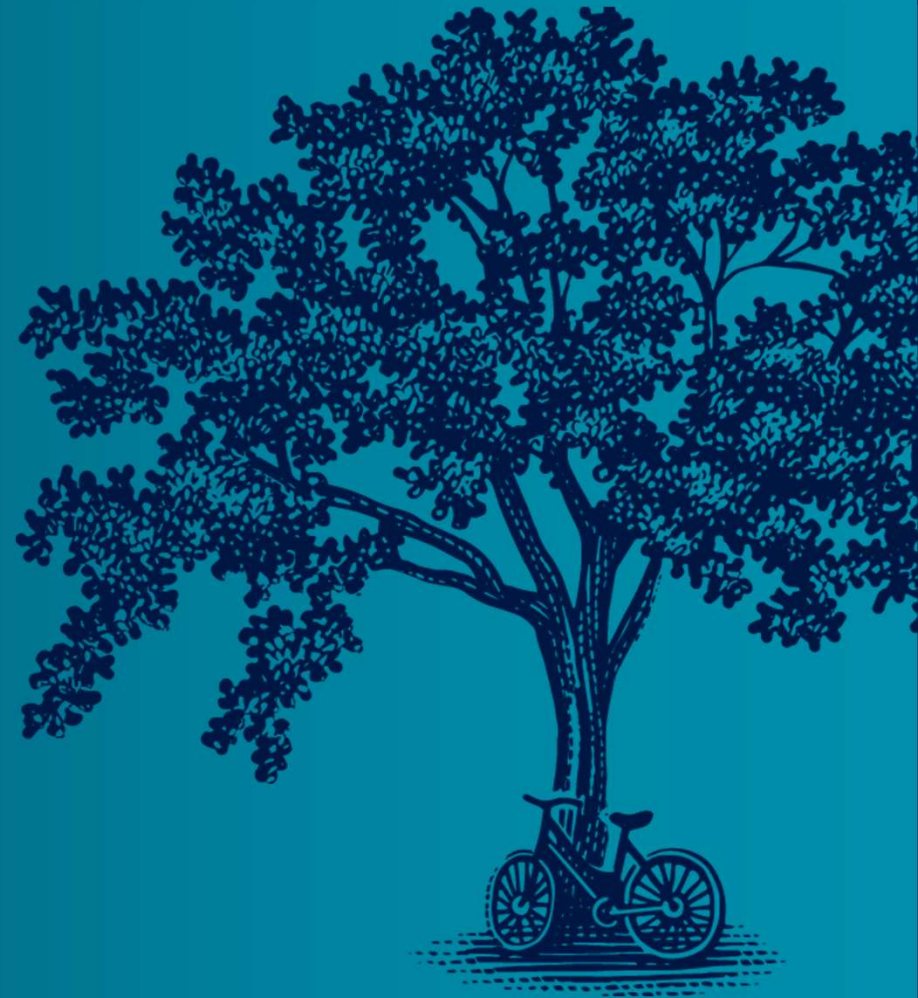


Strategic Initiatives - Overview

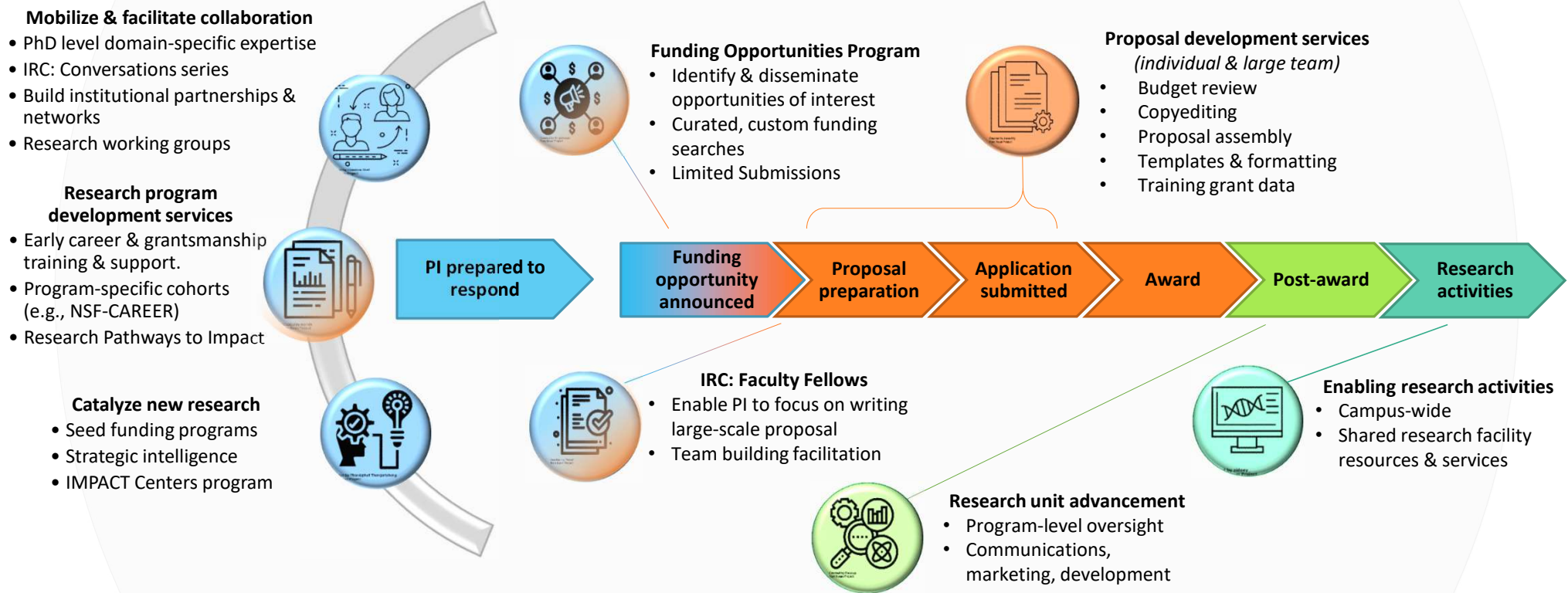
Ana Lucia Cordova

Director

anacordova@ucdavis.edu



Award pipeline: Catalyze & convert ideas to awards

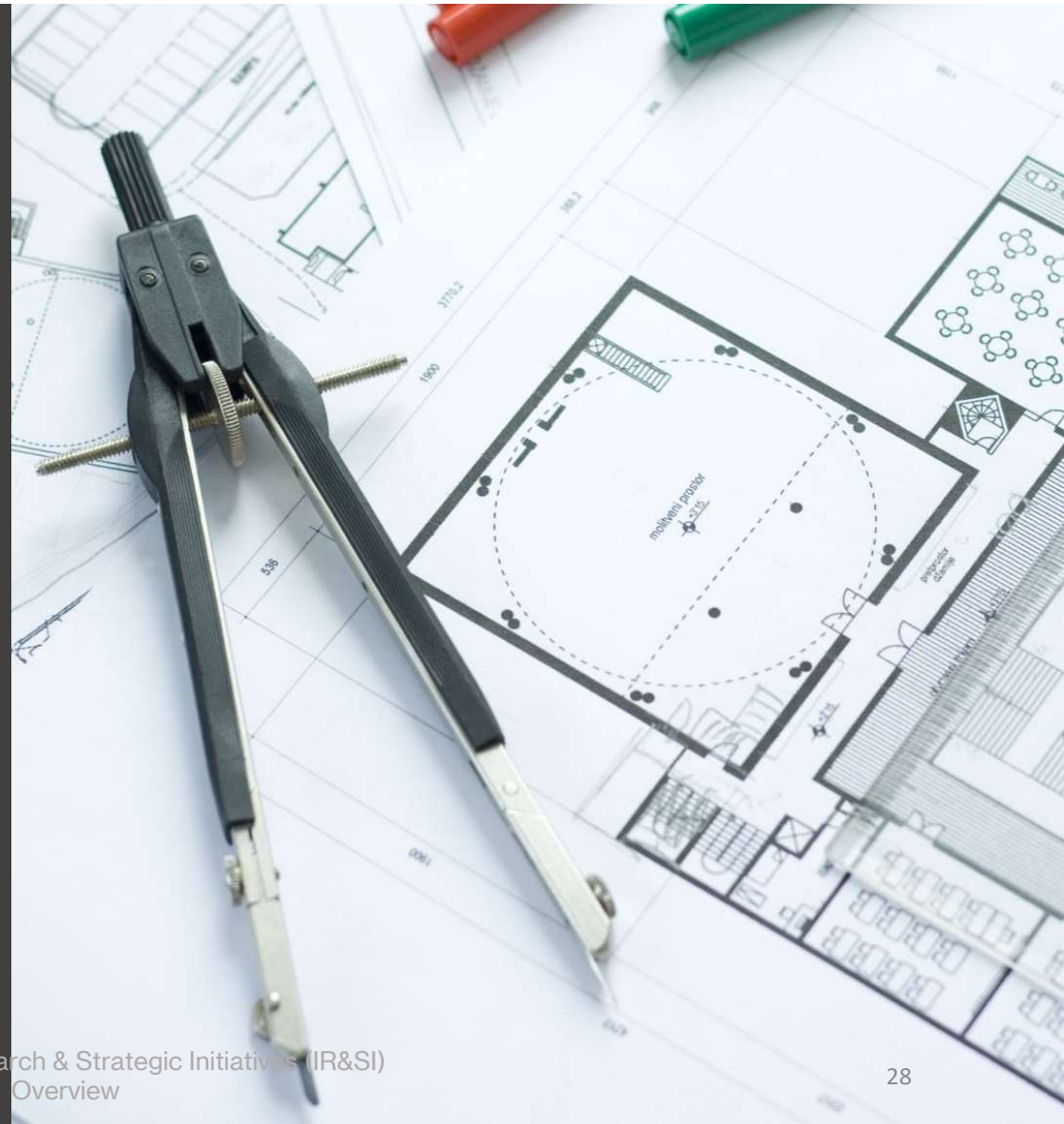


Designing infrastructure & programs

Strategic, top-down opportunities & services

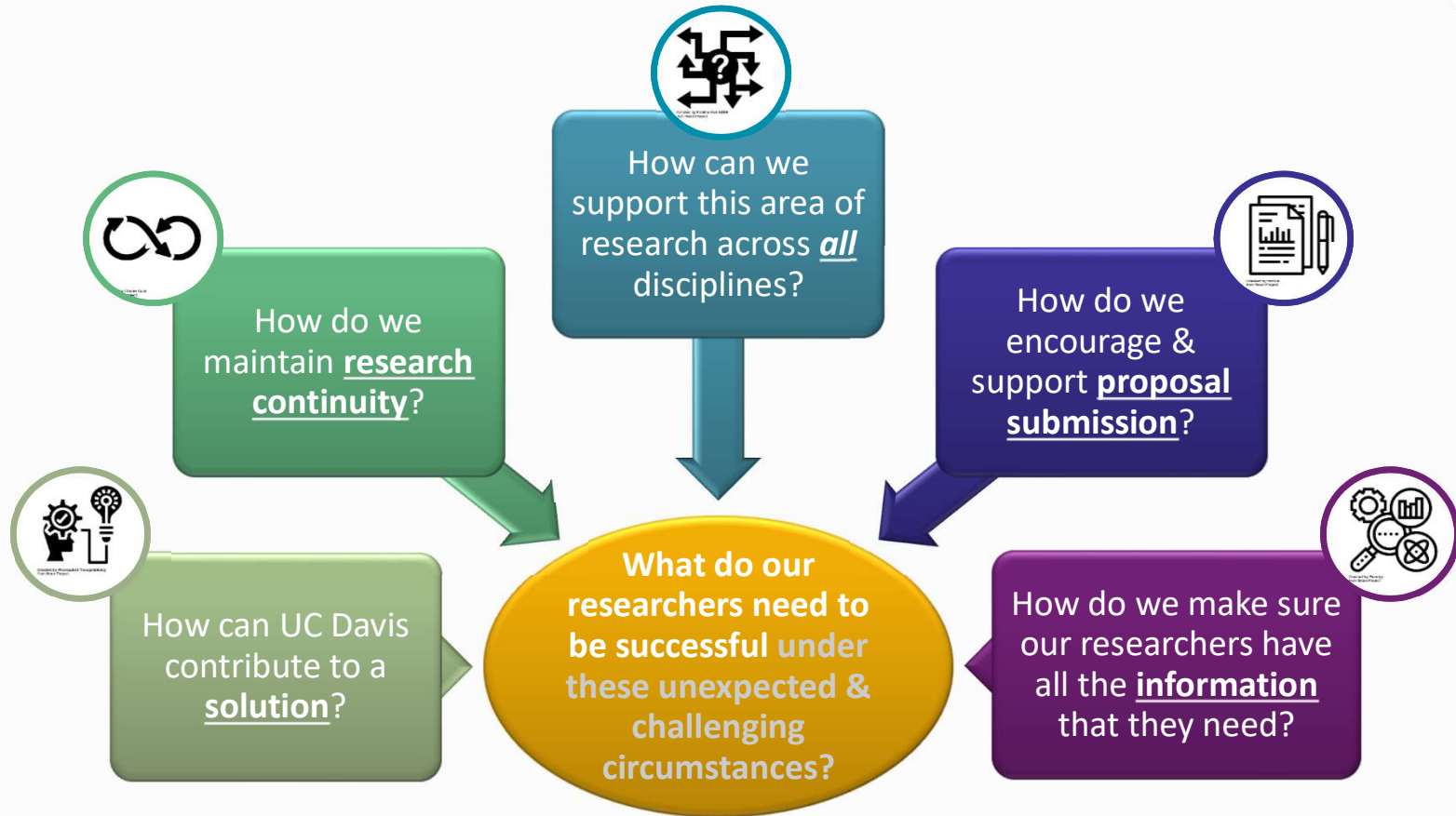


Bottom-up / critical mass areas of interest & innovation





Addressing challenges



Interdisciplinary Research Catalyst

IRC: Faculty Fellows

<https://ucdavis.infoready4.com/#manageCompetitionsDetail/1778501>

- ❖ Up to \$25,000 matched with Dean
- ❖ \$313,000 total matched investment
- ❖ \$15.3M awarded (so far...)
- ❖ \$50M potential

IRC: Conversations

<https://ucdavis.infoready4.com/#manageCompetitionsDetail/1863127>

- ❖ \$5,000 awards
- ❖ 415 participants
- ❖ Five themes - Community and Citizen Science, Biophotonics, Neuroengineering, Health & the Environment, Neuroscience



Team Research Forums

<https://research.ucdavis.edu/research/interdisciplinary-research-strategic-initiatives/team-research-forum/>



20+ Events



1600+ Participants

- ❖ Highlight specific research areas & opportunities.
- ❖ Provide a space for faculty & researchers to find collaborators and make new connections.
- ❖ Address areas of broader impact and societal well-being.

Interdisciplinary Research & Strategic Initiatives (IR&SI)
Overview



Strategic Initiatives contact information

General inquiries	strategicinitiatives@ucdavis.edu
IRC, Team Research Forum, IMPACT Centers, domestic & international partnerships, research working groups	Dr. Ana Lucia Cordova anacordova@ucdavis.edu <i>Strategic Initiatives Manager</i>
Funding Opportunities Program, Limited Submissions	Dr. Meg Sparling msparling@ucdavis.edu <i>Research Funding Manager</i>
BRAIN Initiative, program development, data analytics, IR&SI programs	Dr. Whitney Cheung wkcheung@ucdavis.edu <i>IR&SI Executive Analyst</i>

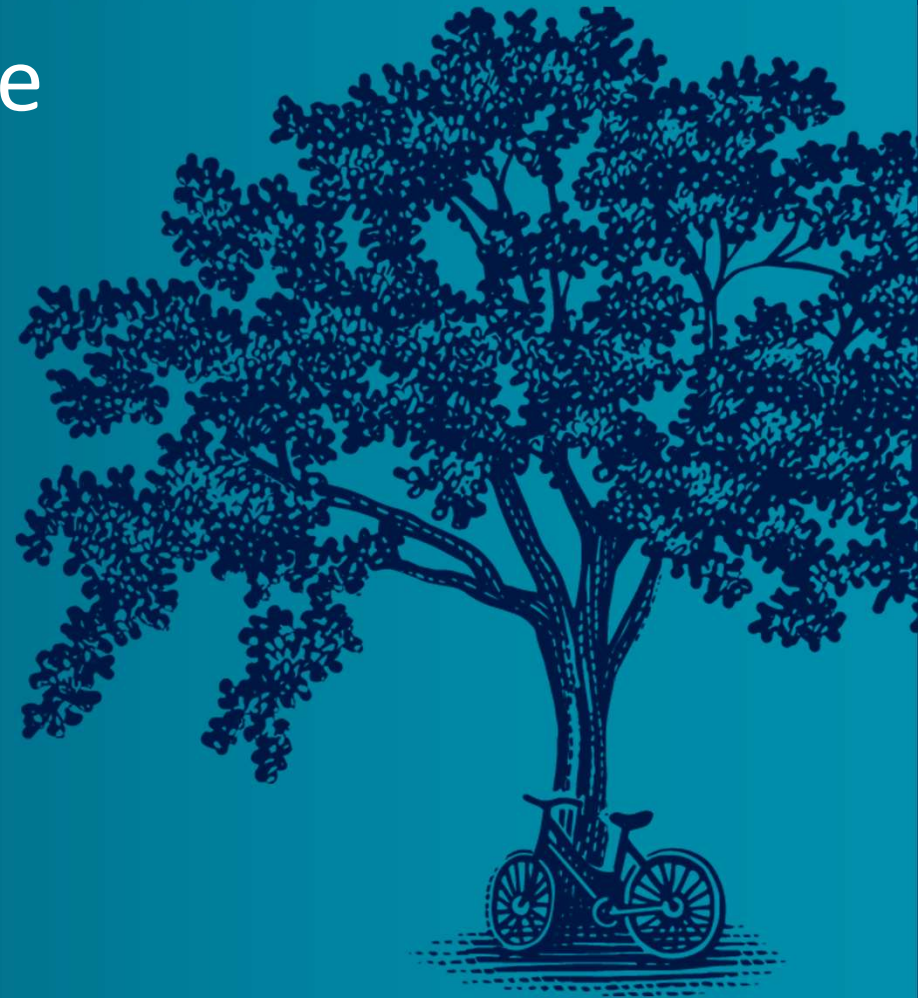


Sponsored Programs Office

Ahmad Hakim-Elahi

Executive Director

ahakimelahi@ucdavis.edu



Sponsored programs Office of VC Research

Ahmad Hakim-Elahi, *Ph.D., J.D.*
Executive Director, Research Administration

Research Support for Faculty
New Faculty
October 25, 2022



Sponsored Programs Office: Mission

- The Sponsored Programs Office assists the campus research community with its efforts to secure extramural funding while promoting proper stewardship of those funds
- Responsible for:
 - Review and submission of proposals, and
 - Accepting the resulting awards

All on behalf of The Regents

Regent's Policy

- “It is the policy of the University of California that employees who receive **any part of their salary** through the University, or whose activities **use any University resources or facilities**, must submit their proposals for extramural support through the appropriate local contracts and grants office. Awards must be made to The Regents of the University of California.”
- “**This requirement is necessary to ensure** that all research and other extramurally funded projects conducted by University employees, or with the use of University resources or facilities, **are approved by the appropriate University contract and grant office and comply with relevant University policies and guidelines...**”
- <https://policy.ucop.edu/doc/2500500/ReqSubmitProp-Awar>

Sponsored Programs Office

Primarily responsible for providing the following services in support of the unit's mission:

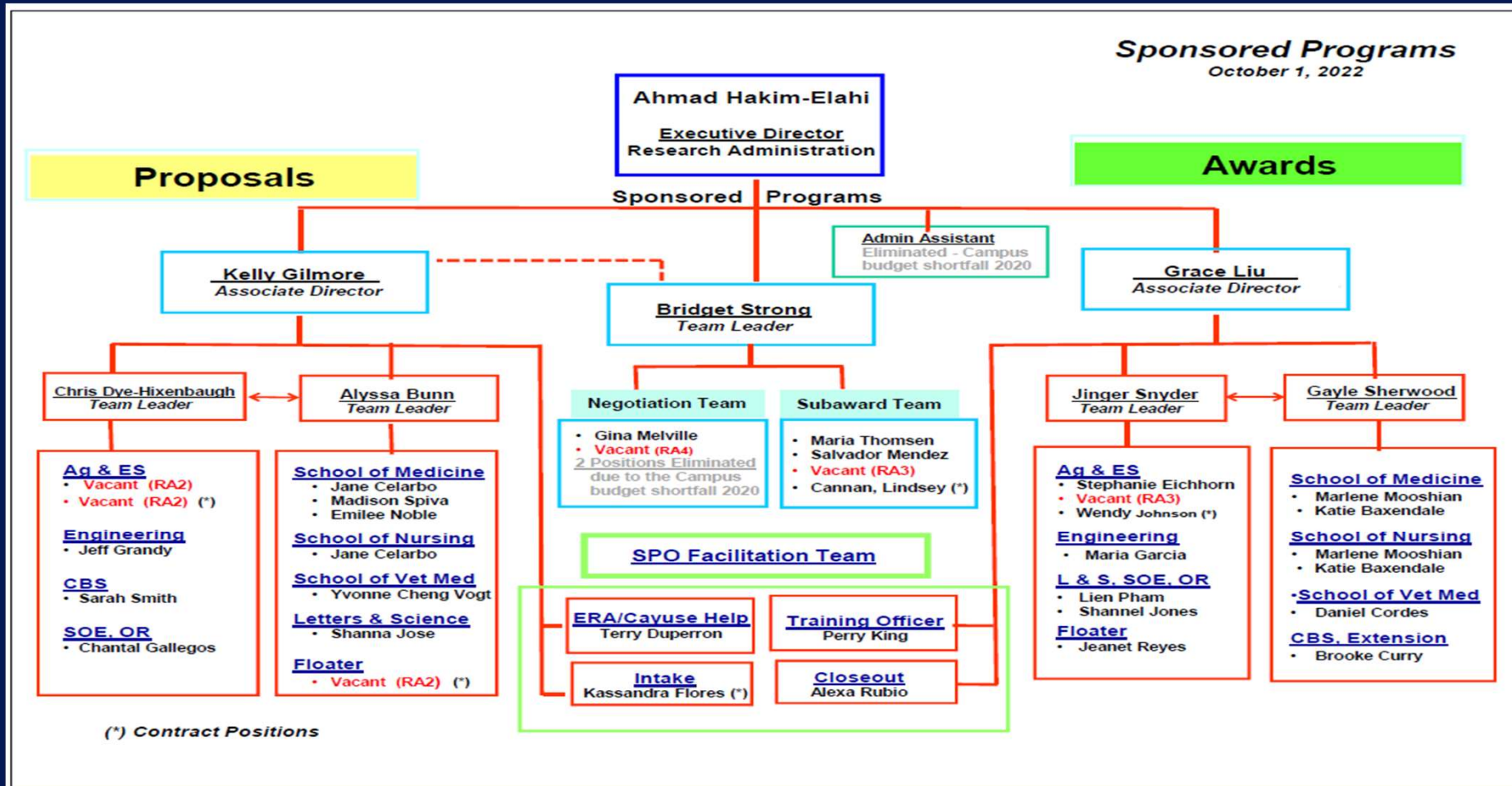
- **Review and approve proposals as delegated by The Regents**
- **Review, negotiate, and accept awards on behalf of The Regents**
- **Issue subawards**
- **Secure proper approvals for post award transactions**
- **Coordinate award closeout**
- **Provide training on pre and post-award policies, procedures and regulations**
- **Maintain systems for proper reporting of extramural funds and effective management of the unit's functions.**

Sponsored Programs Office

Some of our functions are:

- Effective and timely handling of all research proposals
- Review/negotiate **NDA/CDAs** for anticipated research collaborations
- Review, interpret, negotiate, and accept awards/agreements on behalf of the Regents for projects funded by:
 - **federal and state agencies**
 - **foundations, and**
 - **other public and private sources.**
- Draft, negotiate, and execute awards and subawards for collaborative research.
- Dedicated analysts within the Sponsored Programs office carry out these duties.
 - Each analyst is part of a team (led by a Contracts and Grants Officer) and is assigned to focus on either proposals or awards for a set of schools / colleges.

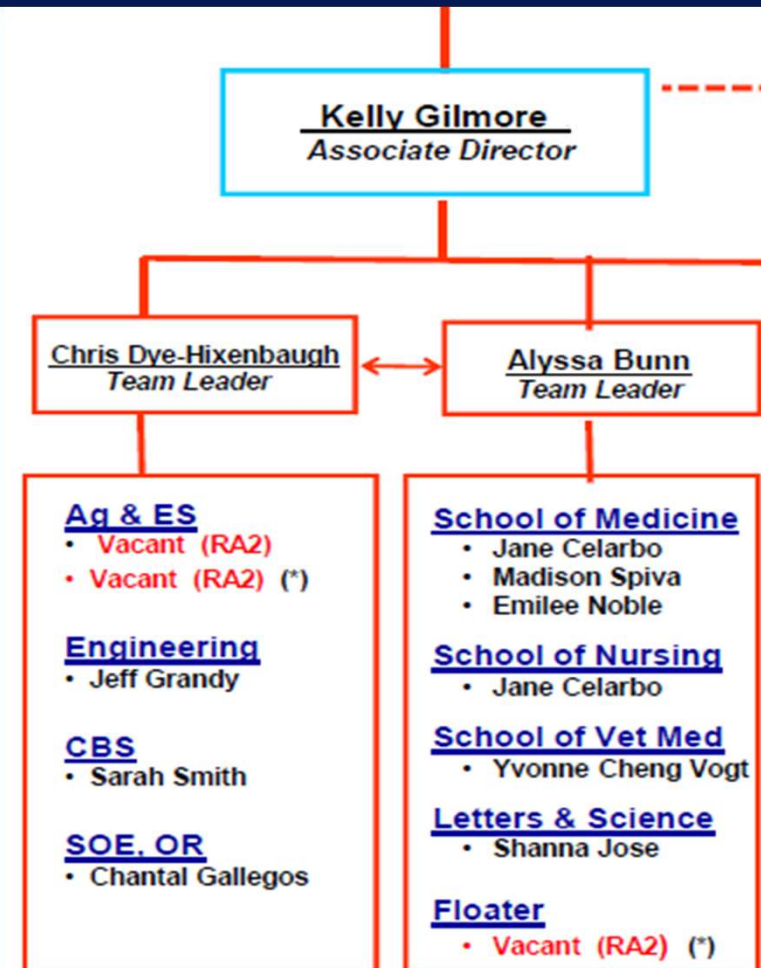
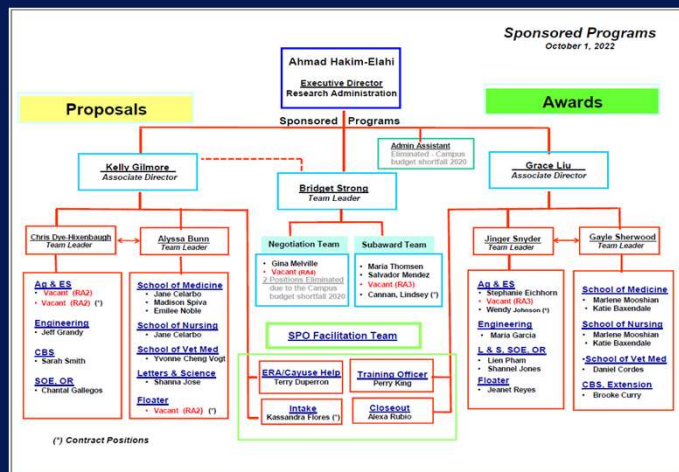
Structure of SPO



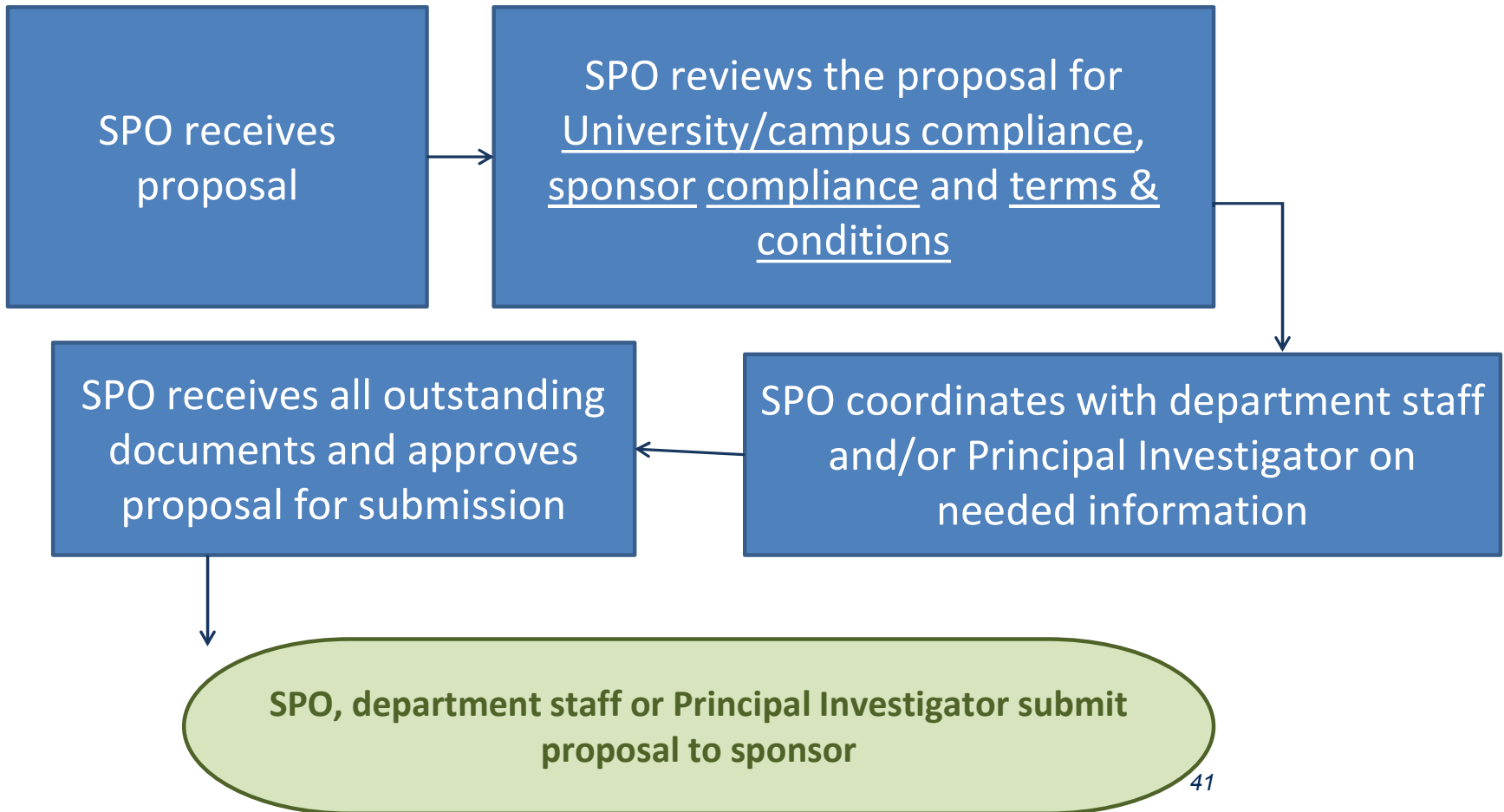
Structure of SPO (continued)

Proposal Team

Is charged with reviewing and approving research proposals to ensure compliance with University/ campus and sponsor policies, including but not limited to appropriate indirect cost recovery.



The Proposal Process



Types of Proposal Reviews

Full Review ≥ 5 Business Days

- Campus & sponsor requirements
- Financial & regulatory compliance
- PI & institutional eligibility
- Terms & conditions, if applicable
- **Submission:** Final packages should be submitted to SPO two business days prior to submission deadline (preferred); at a minimum, three hours prior to submission deadline

Limited Review < 5 business days

- Indirect cost rate, based on information as submitted
- Additional items as time may allow
- Reserve right to negotiate at time of award
- **Submission:** As soon as practicable, although we cannot guarantee an error-free submission or that the submission will be completed due to factors such as volume or system issues

No Review

- No review
- Reserve right to negotiate at time of award
- **Submission:** As soon as practicable, although we cannot guarantee an error-free submission or that the submission will be completed due to factors such as volume or system issues

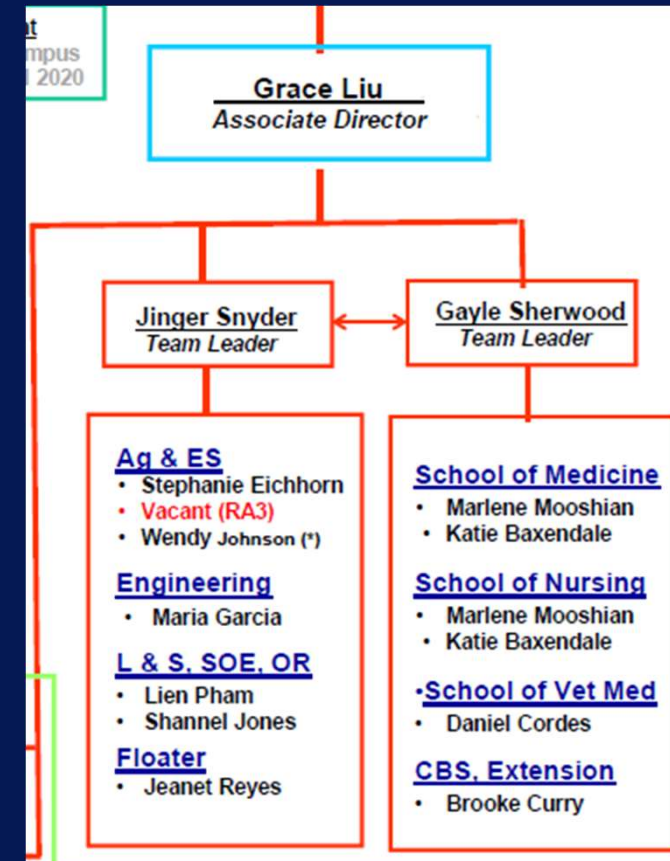
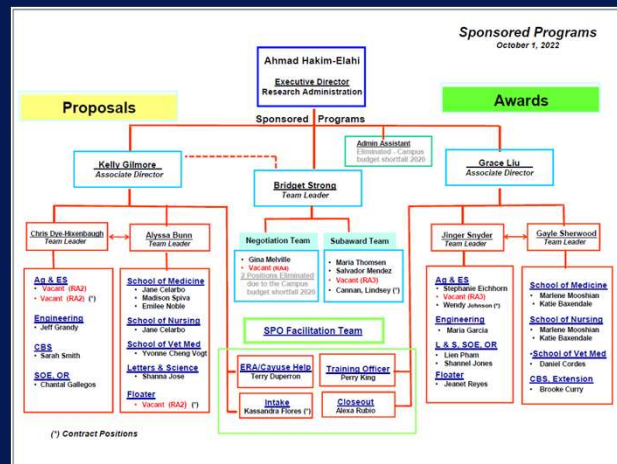
Sponsored Programs is open from 8:00 a.m. to 5:00 p.m.

All proposals must be submitted to sponsors **before 5:00 p.m.**, even if the sponsor has listed a later submission time.

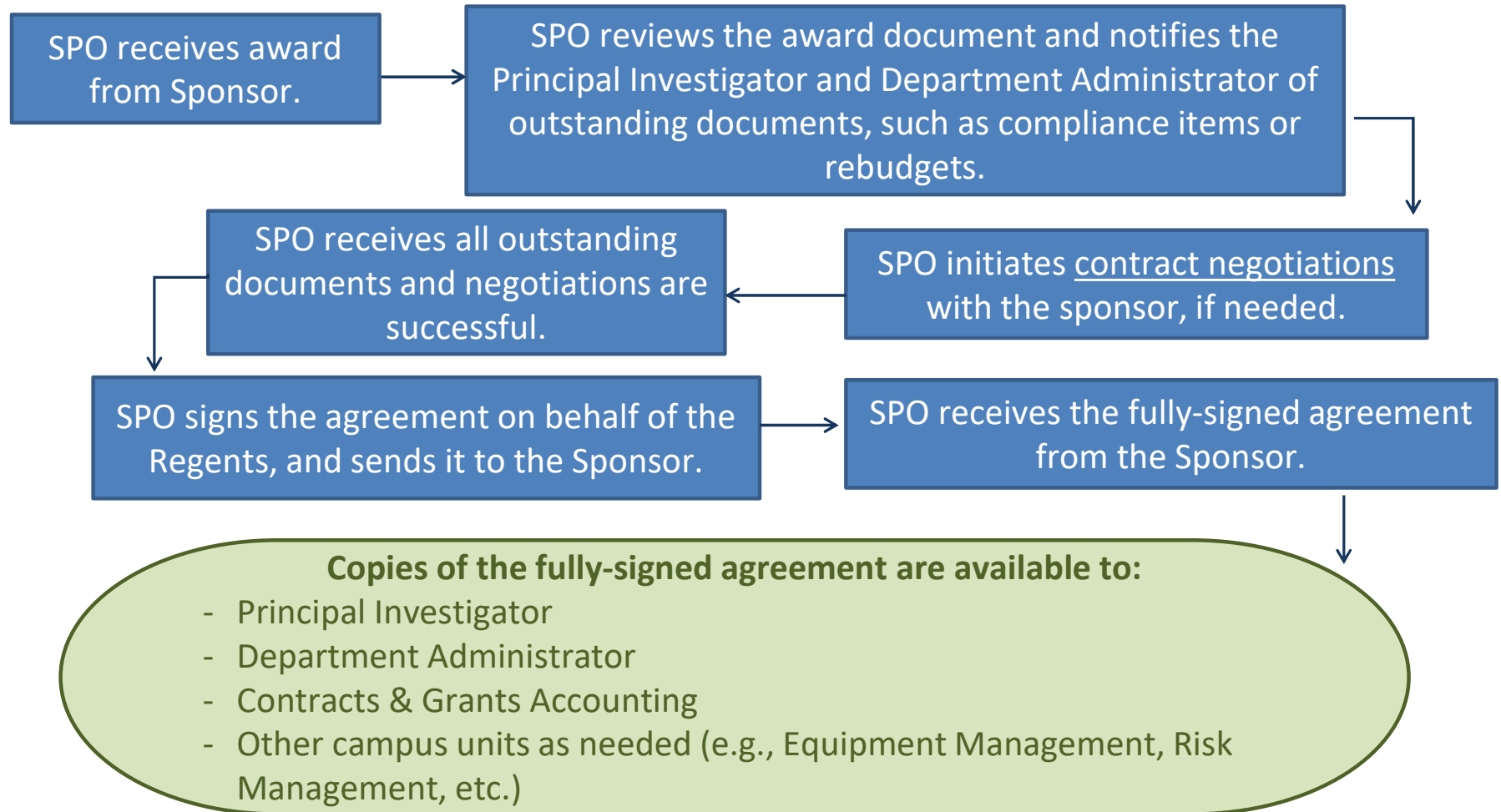
Structure of SPO (continued)

Award Team

is charged with reviewing and approving awarded grants and contracts. The review process ensures terms and conditions fall within applicable laws and University policies.



Award Process

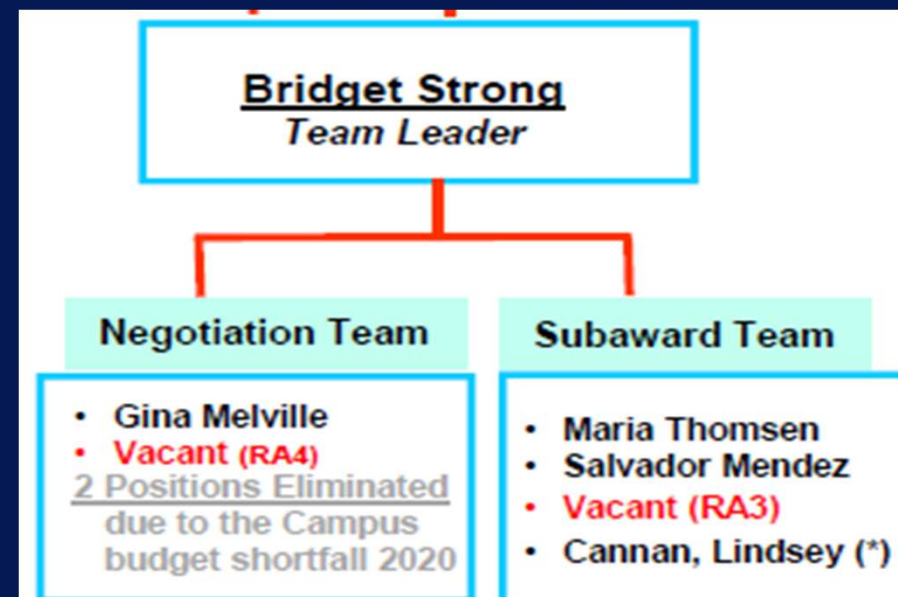
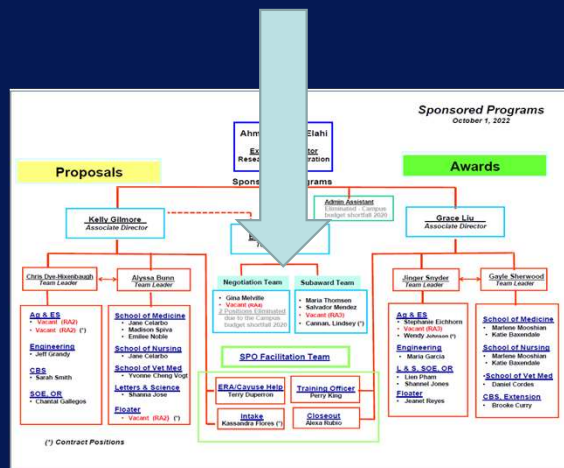


Structure of SPO (continued)

Negotiation & Subawards

is charged with reviewing and approving awards/contracts that required extensive negotiations, especially with the private sponsors, and issuing subawards.

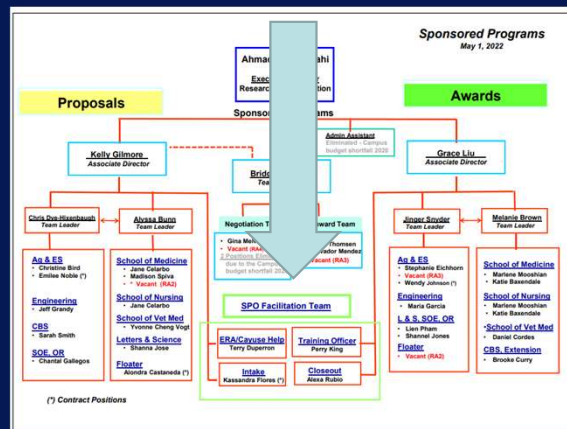
- In the last 2 to 3 years, for negotiations, we have been relying on other members of SPO, due to on-going vacancies.



Structure of SPO (continued)

Facilitation Team

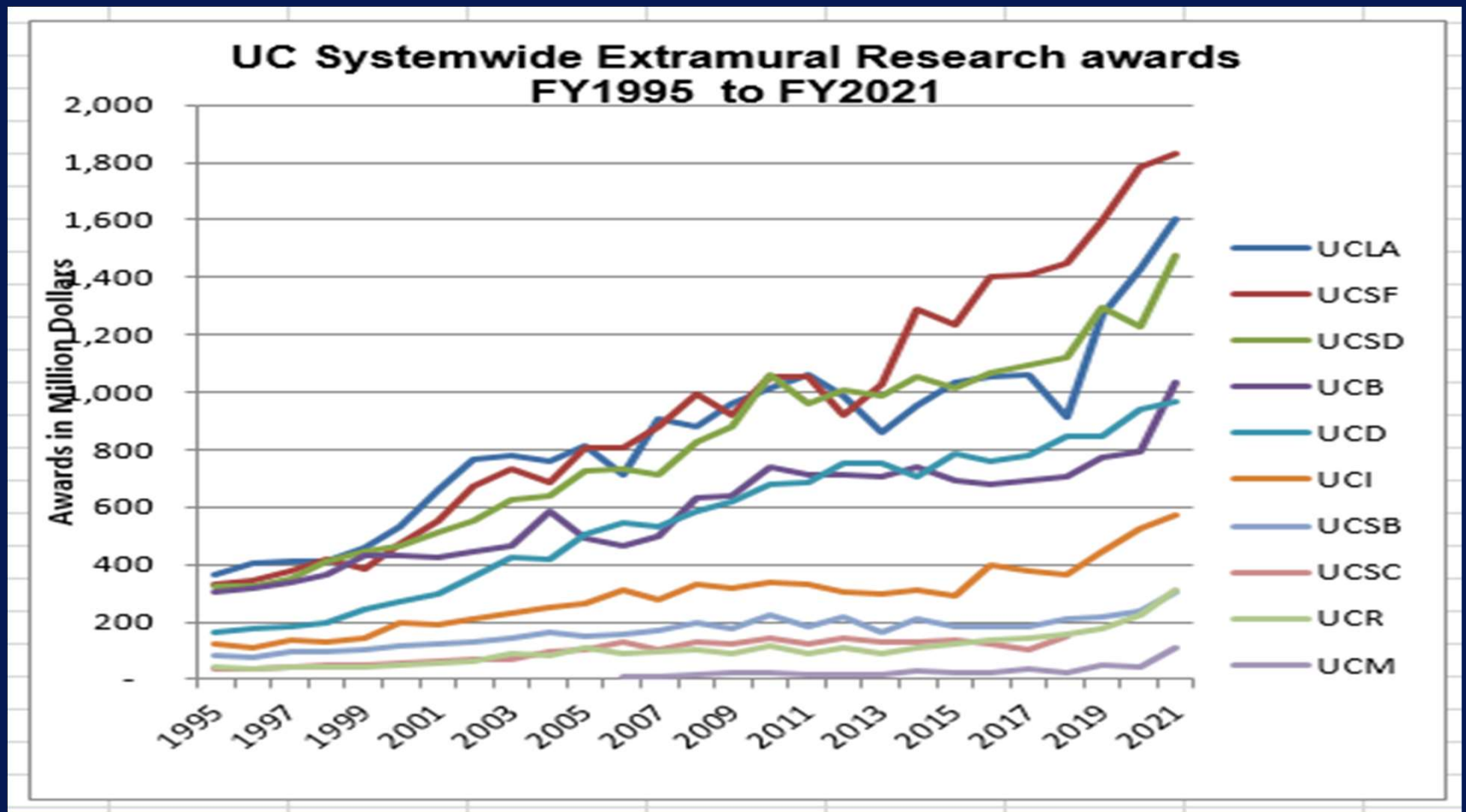
- provides internal/external support for SPO activities. The team is vital to ensuring efficient operations. This dedicated team is tasked with:
- resolution of **Cayuse Help Desk inquiries**,
- **real-time review and team assignment of Cayuse requests, systems access controls and prompt resolution of access issues**,
- **internal and external training, and**
- **award closeout activities.**



Sponsored Programs Office: **Role**

- **Proposals:** Review and Submit Proposals:
 - Make sure the proposal and supporting documents follow the RFP
 - Ensures that budget is appropriately prepared:
 - Correct indirect cost rate
 - subawards & consultants are properly budgeted
 - Submit proposals to sponsor
- **Awards:** Review and Accept Awards:
 - Make sure award terms are acceptable
 - Make sure all compliance items are accounted for
 - Sign award on behalf of the Regents

Awards \$\$ Amounts



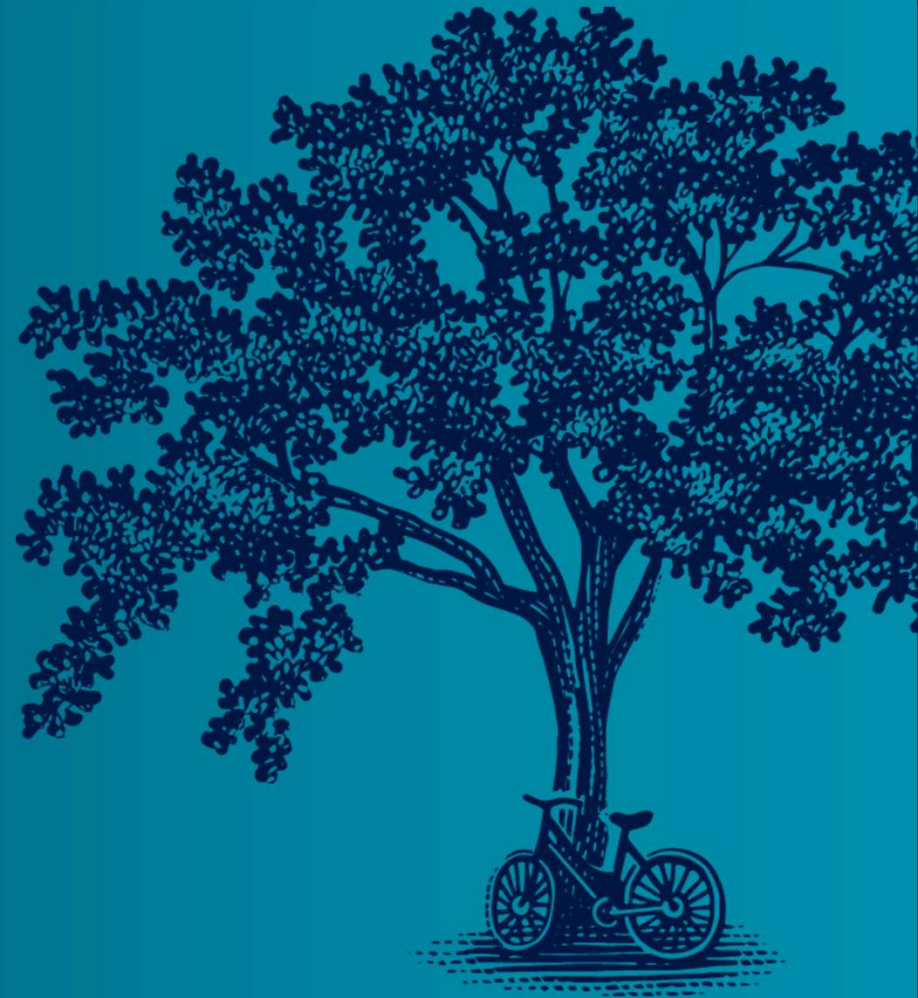
Thank you!



Research Cores Facilities Program (RCFP)

Isabelle Girard, PhD
Interim Director, RCFP
igirard@ucdavis.edu

UCDAVIS
OFFICE of RESEARCH



Research Core Facilities Program

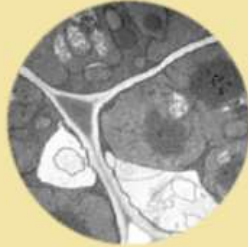
- Launched in 2015 by the Office of Research
 - \$5.3 million investment to strengthen the shared research infrastructure
- Supports access to state-of-the-art technology for their scientific research through designated Campus Research Core Facilities (CRCF)
 - Access to instruments, technologies, expertise, training, and high-quality scientific services
 - Use of instruments and services based on reasonable fees
 - 18 designated campus cores (STEM disciplines)
 - up to 100 additional shared facilities
- Visit cores.ucdavis.edu



Campus Research Core Facilities



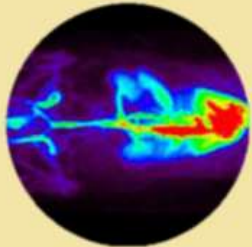
Bioinformatics Core
bioinformatics.ucdavis.edu



Biological Electron Microscopy Facility
bioem.ucdavis.edu



Campus Mass Spectrometry Facility
cmsf.ucdavis.edu



Center for Molecular and Genomic Imaging
cmgi.ucdavis.edu



College of Biological Sciences DNA Sequencing Facility
dnaseq.ucdavis.edu



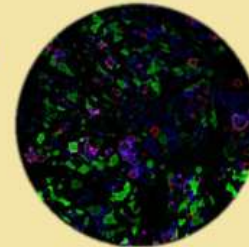
Controlled Environment Facility
cef.ucdavis.edu



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

Campus Research Core Facilities



**High Performance
Computing for
Research Core
Facility**
hpc.ucdavis.edu



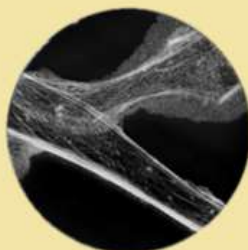
**Imaging Research
Center**
ucdirc.ucdavis.edu



**Interdisciplinary Center
for Inductively-Coupled
Plasma Mass
Spectrometry**
icpms.ucdavis.edu



**Keck Spectral Imaging
Facility**
ksif.ucdavis.edu



**MCB Light Microscopy
Imaging Facility**
microscopy.mcb.ucdavis.edu



**Mouse Biology
Program**
mbp.mousebiology.org



**Nuclear Magnetic
Resonance Facility**
nmr.ucdavis.edu



Proteomics Core Facility
proteomics.ucdavis.edu



**West Coast
Metabolomics Center**
metabolomics.ucdavis.edu

Find services and equipment

<https://research.ucdavis.edu/research/core-facilities-services/service-equipment-locator/>



Search:

Facility	Email	Phone No.	Facility Website
 Advanced Materials Characterization Laboratory (AMCaT)	benthem@ucdavis.edu	(530) 752-0284	https://mse.engineering.ucdavis.edu/amcat
 Behavior Research Services Core	cehogrefe@ucdavis.edu	(530) 752-5179	http://www.cnprc.ucdavis.edu/our-services/core-research-services-core/
 Bioanalysis and Pharmacokinetics Core Facility	chywu@ucdavis.edu	(916) 703-5510	http://pk.ucdavis.edu
 Bioinformatics Core	settles@ucdavis.edu	(530) 752-2698	http://bioinformatics.ucdavis.edu
 Biological EM facility (CBS)	epbaldwin@ucdavis.edu	(530) 752-1108	https://www.mcb.ucdavis.edu/cryoem/
 Biological EM facility (SOM)	pekysar@ucdavis.edu	(530) 752-1108	http://www.ucdmc.ucdavis.edu/cellbio/electronmi



RCFP welcomes your questions

Please contact:
Isabelle Girard
igirard@ucdavis.edu

*Do we have a large
centrifuge on campus?*

*What computing
resources are
available?*

*Can a facility host my
new microscope?*

*Who can help me
identify a protein?*

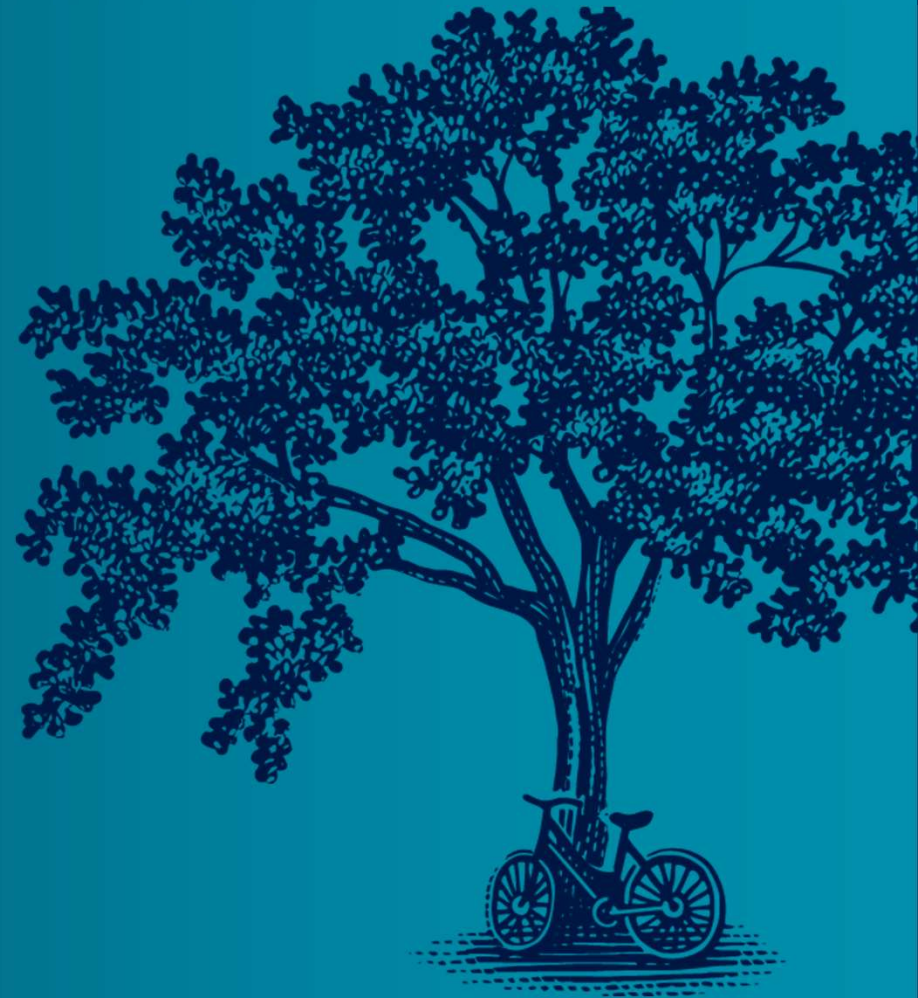
*Where can I grow
mushrooms?*



Innovation & Technology Commercialization:

InnovationAccess & Venture Catalyst

Janine F. Elliott
Interim Director- Venture Catalyst
jafelliott@ucdavis.edu



Innovation & Technology Commercialization: Our Purpose



Innovation and Technology Commercialization (ITC) helps transform today's research into tomorrow's successful products, services and business.

We offer a wide range of services to ensure inventions reach society to improve the lives of others.

Innovation & Technology Commercialization: Who we are

Innovation*Access*

Stewards university intellectual property and implements and manages IP agreements and technology transactions

Venture Catalyst

Catalyzes the commercial translation of university research through effective enablement of startups and new ventures

Over 900 Active Patents Currently
Under Management

RESEARCH

120+ Startups with Foundational IP
200+ Startups Served
Since FY 2013-14

MARKET

Innovation & Technology Commercialization: What we do



SUBMIT AN
INVENTION
DISCLOSURE



REQUEST AN
AGREEMENT



LAUNCH A
STARTUP



AVAILABLE
TECHNOLOGIES



PLANT VARIETIES

Last year alone, our office helped campus researchers with:

130

Invention
Disclosures

112

Total Patents
Issued

\$12.5

Million Royalty
Income

9

Startups

1203

Transfer
Agreements

96

Licenses

What is Intellectual Property?

Intangible personal property which is a product of the intellect

- Patent (make, use, sell/offer to sell, import)
- Copyright (reproduce, derive, distribute, display, perform, transmit)
- Trademark (identify source of goods/services)
- Trade Secret (formulations, know-how, data sets, customer lists)



Why protect IP? (or at least declare the invention to IA)

- It's counter-intuitive, but... IMPACT!
Most IP is more valuable and likely to scale-up when it grants temporary exclusive rights to some parties to make & distribute it to as many people as possible
- It's Policy
Federal Bayh-Dole Act
UC Patent Acknowledgement
- It can generate royalty income
Inventors, their departments, the University



InnovationAccess Request

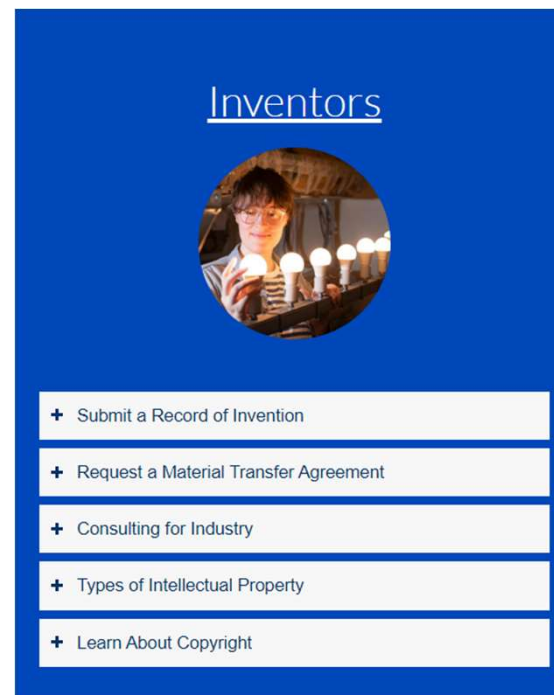


Please **DO** disclose even potential inventions to IA (ROI). They will make the determination if there's patentability and/or market potential



Please **AVOID** public disclosures before an ROI evaluation

- Includes publishing papers, presentations (even on campus)
- Negates patentability for most of the world



<https://itc.ucdavis.edu/>



InnovationAccess Resources

TIPS RESOURCES

+ General IP Resources

+ Innovator & Inventor Resources

+ Learn about Patents

+ Learn about Licensing

+ Tech Transfer & Patent Prosecution Diagrams

+ Helpful Publications

TIPS
TACTICAL INTELLECTUAL STRATEGY
PROPERTY

TIPS VIDEO SERIES

Types of IP



What is an Invention?



How is Patentability Assessed?



Who is an Inventor?



Filing and Obtaining a Patent



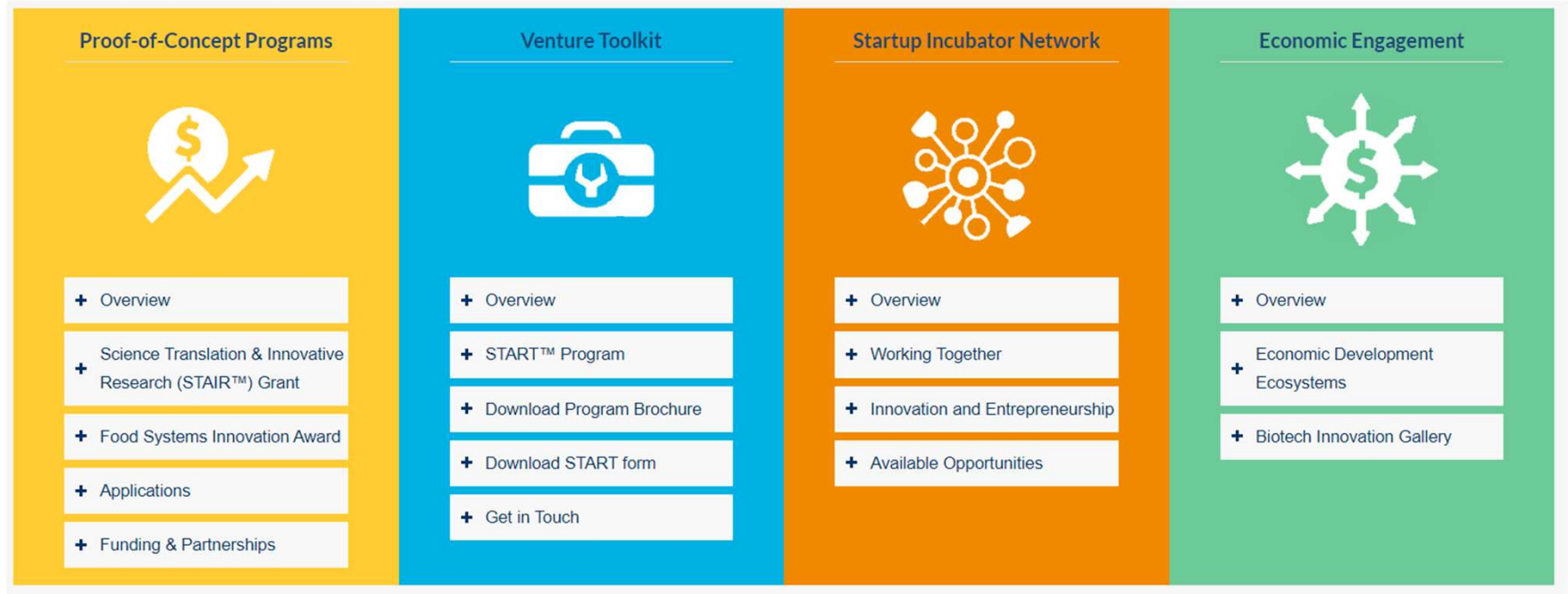
What is a License?



- For yourself: Learn more about intellectual property
- For your students:
 - Use it in your curriculum
 - Request a TIPS presentation from an IA team member



Venture Catalyst



Whether you're an *entrepre-curious* innovator or a fire-forged entrepreneur, we're here to help

Upcoming Opportunities to Engage in I&E

- **Big Bang! Competition & Workshop series** just started with the Mike & Renee Child Institute for Innovation & Entrepreneurship
- **Chancellor's Innovation Awards** nominations open this Winter & awards reception will be this June
- Venture Catalyst **STAIR & FSI Proof-of-Concept Award Program** applications open this January and close in March
- **NSF I-Corps bootcamps** by Venture Catalyst & the **UC Entrepreneurship Academy** by the Mike & Renee Child Institute for Innovation & Entrepreneurship coming this Winter & Spring





Thank you!

We look forward to supporting your innovative endeavors

Join the Venture Catalyst Newsletter to stay up-to-date:

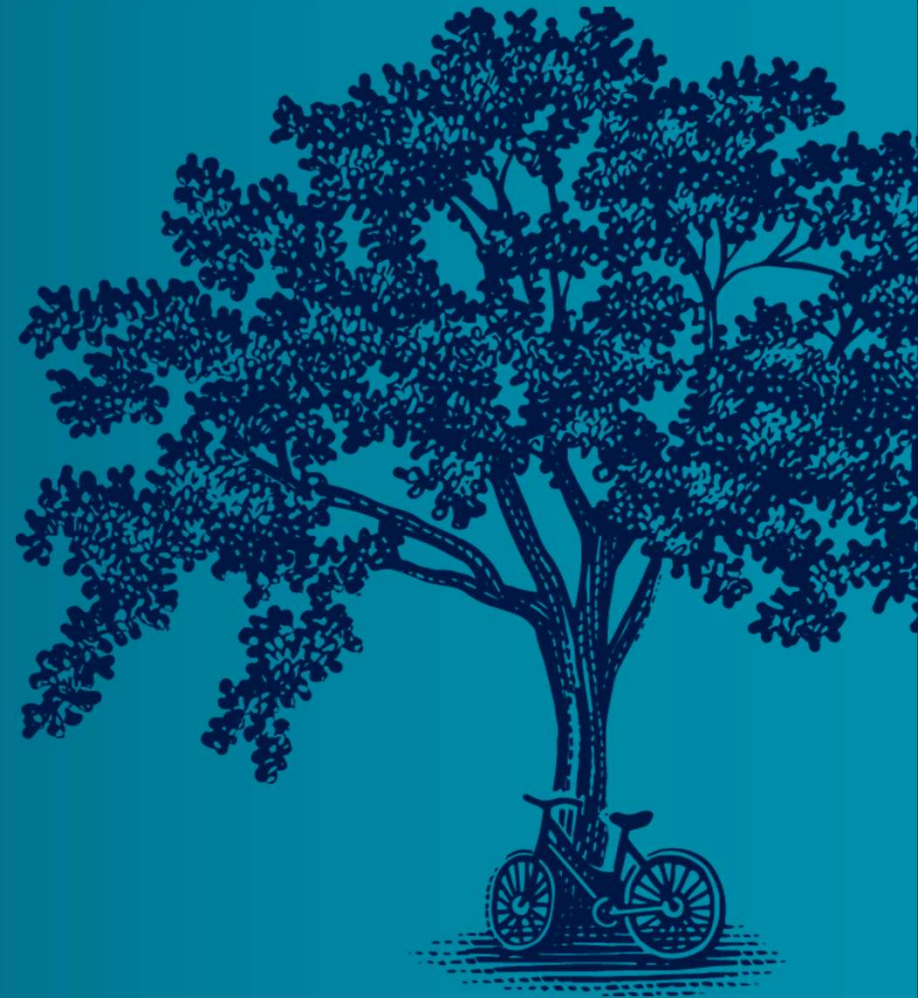
<https://itc.ucdavis.edu/venture-catalyst-0/#top>

Research Compliance & Integrity

Denise Ehlen

Associate Vice Chancellor
dmehlen@ucdavis.edu

UCDAVIS
OFFICE OF RESEARCH



Research Compliance & Integrity

Export Control

**Financial
Conflicts of
Interest**

**Stem Cell
Research
Oversight**

**Human Subjects
Research QI/QA**

**Research
Misconduct**

**Research
Conduct of
Research**

Export Controls



Consult RCI, your Export Control Office, if your Research Involves

- Shipping or hand carrying items internationally
- Traveling internationally
- Sponsors that require publication and/or citizenship restrictions
- Purchasing equipment that is, or may be, controlled under export control laws
- Allowing a foreign person access to controlled items (even if the access occurs within the US)
- Work with foreign military
- Undertaking activities in a sanctioned country (e.g. Cuba, Iran, North Korea, Syria, Crimea region of Ukraine, Russia)



Financial Conflicts of Interest

How to Disclose

- Navigate to <https://research.ucdavis.edu/policiescompliance/coi/coi-filing-process/ecoi-system/>
 - Link to Access eCOI
 - Quick Start User Guides
 - Technical Guidance
 - Overview of Disclosure Forms
 - *700U*
 - *Form 800*
 - *Supplemental Form*
 - *PHS Form*



Stem Cell Research Oversight

Stem Cell Research

- ALL UC Davis research activities involving human stem cell research must be conducted in compliance with the applicable university, state, and federal regulations governing such research.
 - See <https://research.ucdavis.edu/policiescompliance/stem-cell-research/> for additional information.
 - *Submit application to the Stem Cell Research Oversight Committee (SCRO):* <https://research.ucdavis.edu/wp-content/uploads/SCRO-Application-rev-07-31-2013-3.docx>
 - *Quick Guide to Stem Cells and Stem Cell Research:* <https://research.ucdavis.edu/wp-content/uploads/Stem-Cell-Research-Quick-Guide1.pdf>

Human Subjects Research QI/QA

Routine Reviews of Active IRB Studies and “For Cause” Audits

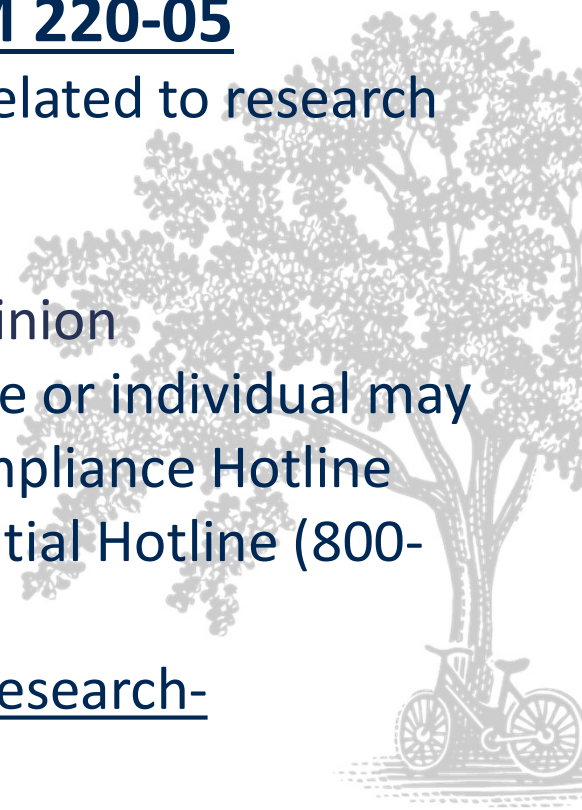
- Evaluating human subject studies for possible non-compliance with the IRB Protocol and/or regulatory requirements.
- Promoting a culture of compliance among the human subject research community.
- Assisting with human subject compliance training and outreach.
- Recommending improvements and corrective action in the human research study and IRB process.
- See <https://research.ucdavis.edu/offices/rci/human-subjects/> for additional information.



Research Misconduct

Implement and Enforce Integrity in Research, PPM 220-05

- Evaluate and investigate all allegations of misconduct related to research at UC Davis.
 - Fabrication, Falsification, and/or Plagiarism
 - DOES NOT include honest error or differences of opinion
- Research Compliance Hotline: At any time, an employee or individual may make a confidential telephone call to the Research Compliance Hotline (877-384-4272) or the University of California Confidential Hotline (800-403-4744).
- See <https://research.ucdavis.edu/policiescompliance/research-misconduct/> for additional information.



Responsible Conduct of Research

Provide Information, Training, and Tools Related to Responsible and Ethical Conduct of Research

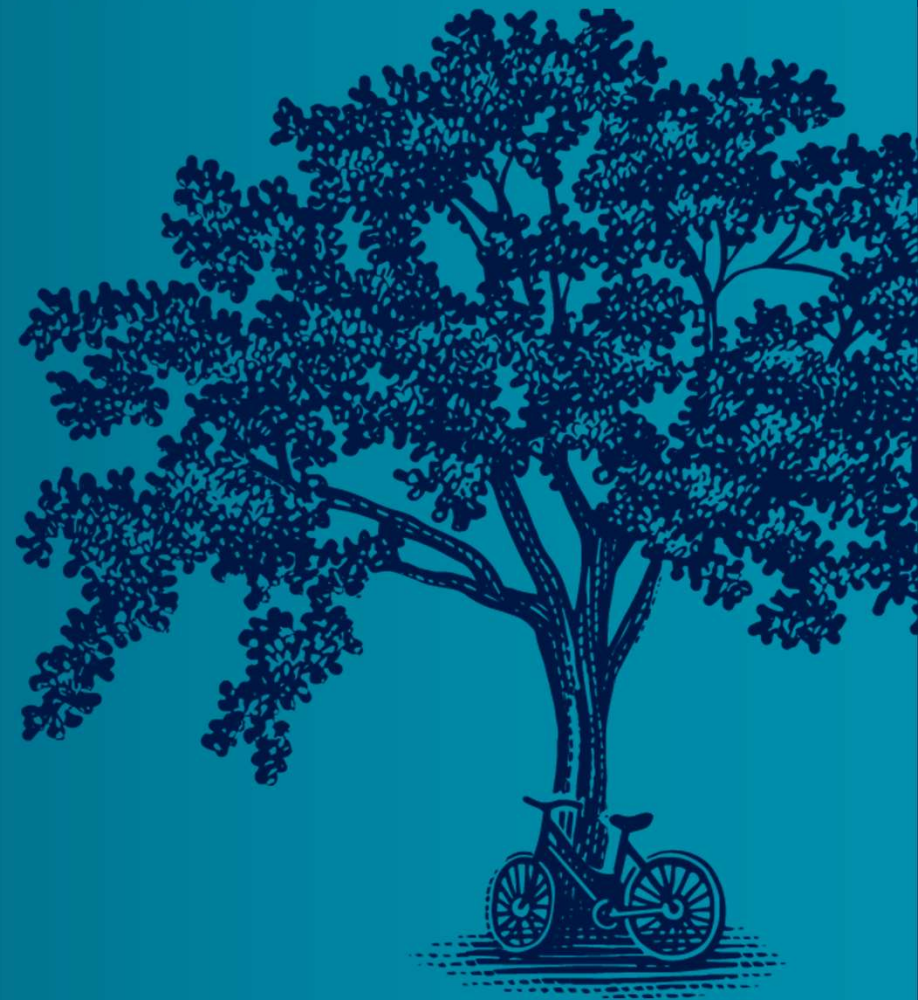
- May be used to satisfy NIH, NSF, and USDA-NIFA grant requirements.
- 12 online (Zoom) modules offered every academic year.
 - Must complete at least 8 modules to earn certificate of completion
- Register online at <http://lms.ucdavis.edu/>, click on “Find a Course,” and search for “RCR”
- See <https://research.ucdavis.edu/policiescompliance/research-ethics-rcr-program/> for additional information.



UC Davis Animal Care Program

Donna Routley, CPIA, RVT, RLATg
IACUC Director

UC DAVIS
OFFICE of RESEARCH





UCD Research and Teaching Animal Care Program

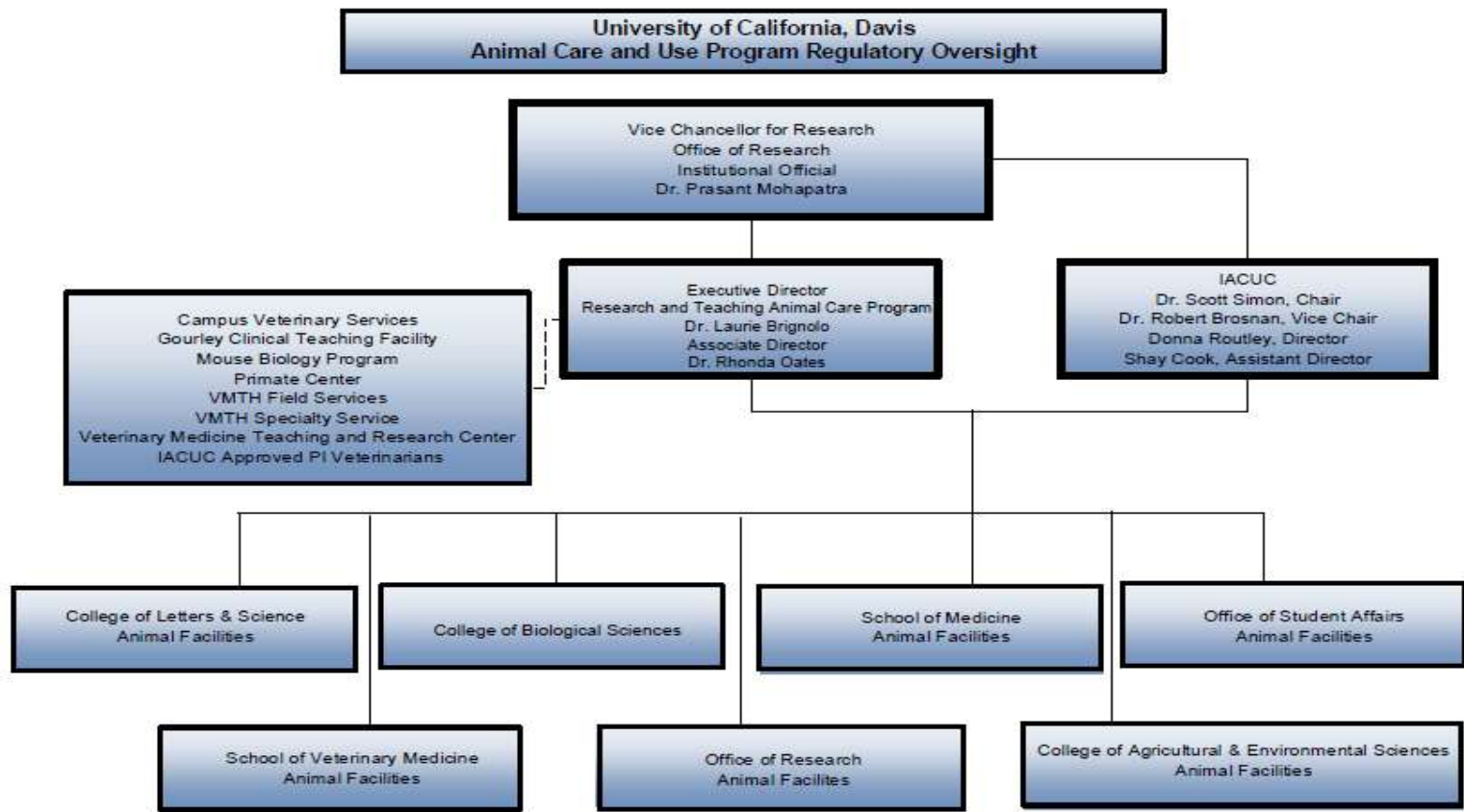
Vision

Ensuring people and animals live healthier lives through the judicious, respectful use of animal models

Mission

Foster a culture of excellence by providing the highest standard of care for our research and teaching animals while providing exemplary support to our investigators, staff and students working with those animals

UCD Research and Teaching Animal Care Program



University of California

Davis Animal Care and Use Program Facilities

Office of Research

1. California National Primate Research Center (CNPRC)
 - Respiratory Disease Center
2. Campus Veterinary Services Clinic
3. Center for Health and the Environment (CHE)
4. Mouse Biology Program (MBP)
 - M3 Barrier
 - 2nd Street
 - J2
5. Off-Site-Bodega Marine Laboratory (BML- Bodega)
6. Teaching and Research Animal Care Services (TRACS)

School of Veterinary Medicine

- 7.CABA- Soto-Fish and Frogs
- 8.Center for Equine Health (CEH)
- 9.Feline Nutrition and Pet Care Center (FNPPC)
- 10.Feline Research Laboratory (FRL)
- 11.Gourley Facility
- 12.J1 ABSL3- Coffey- Rodents
- 13.J1 Facility- Gallardo- Poultry
- 14.P Building- Gallardo- Poultry
- 15.M1- Beaufre- Bearded Dragons
- 16.M1- Foley- Amargosa Voles
17. Off-Site-California Animal Health and Food Safety (CAHFS- San Bernardino)
- 18.Off-Site-Templeton Center for Equine Health (Templeton)
- 19.Off-Site-Veterinary Medicine Teaching and Research Center (Tulare)
- 20.TRACS Pasture- Chigerwe- Dairy Calves
- 21.California Raptor Center
- 22.Pasture-Pitesky- Poultry
- 23.VM3B- Hammock- Fish
- 24.VM3B- Lanzaro- Fish
- 25.VM3B- Lein- Fish
- 26.VM3B- Rogers- Axolotls
27. VMTH Large Animal Clinic
28. VMTH Small Animal Clinic

College of Agricultural & Environmental Sciences

- 29.Department of Animal Science
30. Center for Aquatic Biology and Aquaculture (CABA)
31. CABA- Sih- Fish and Frogs
32. Cole A- Ji- Piglets
33. Nutrition/Environmental Toxicology
34. Meyer Hall- Whitehead- Fish
35. P-Building and field site- Post-Frogs
36. Surge- Fangue- Fish (WFCB)
37. Hydraulics Lab- Fangue- Fish
38. WFCB-TB1- Eadie- Ducks
39. Off-Site-Desert Research Extension Center- (DREC- El Centro)
40. Off-Site-Fish Conservation and Culture Laboratory- (FCCL- Byron)
41. Off-Site- Folsom Rangelands
42. Off-Site-Sierra Research Extension Center- (Brown's Valley)
43. Off-Site- Vacaville Rangelands

College of Letters & Science

44. M1- Bales- Prairie Voles
45. Research Park- Wiltgen- Mice- Learning & Memory Facility
46. Psychology
47. Psychology Field Pens- Krubitzer- Rats

College of Biological Sciences

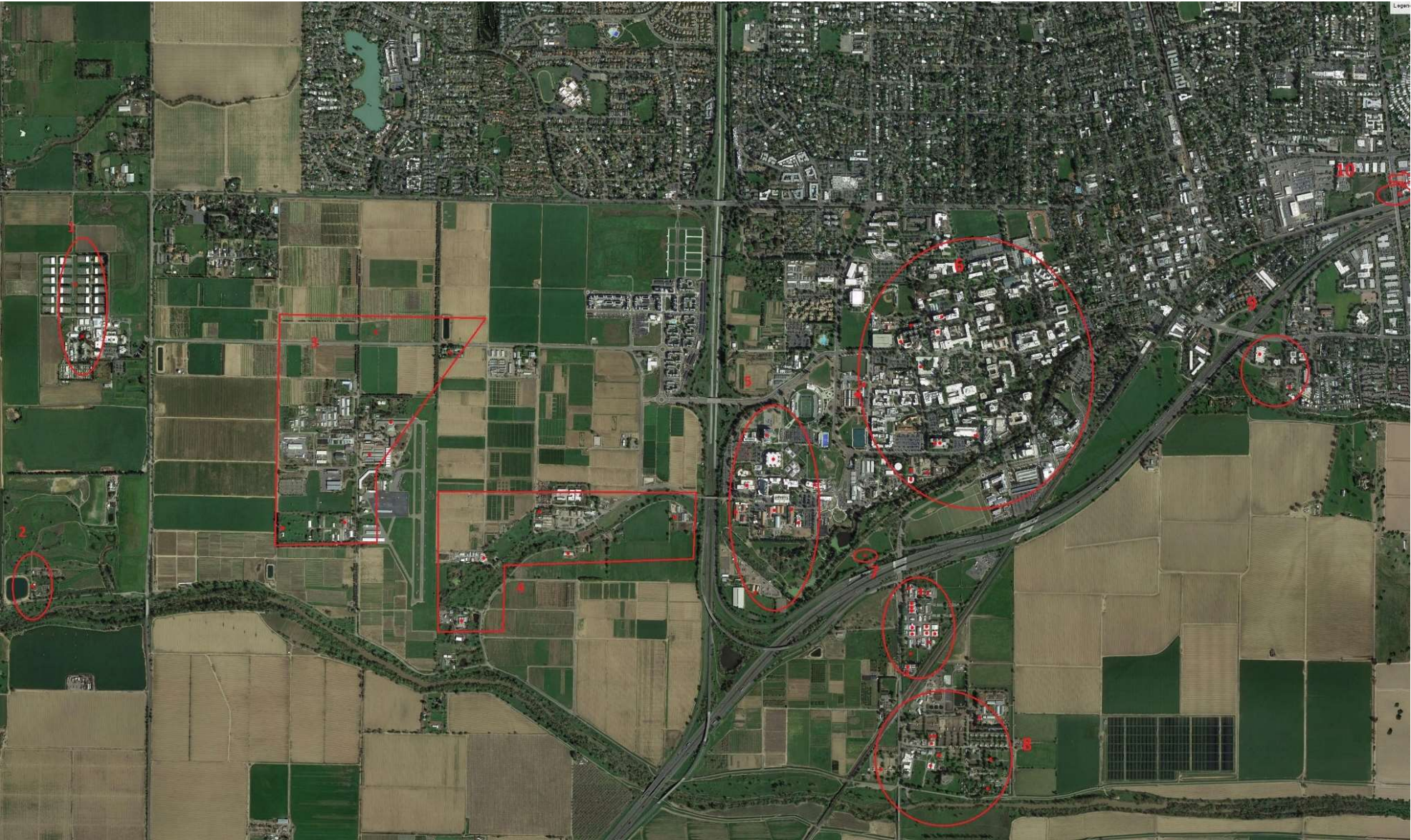
58. Chronic Acceleration Research Unit (CARU)- Fuller- Rodents
59. Green Hall- Draper-Fish
60. Green Hall- Furlow- Frogs
61. Storer- Laskowski-Fish
62. Storer- Wainwright- Fish
63. Green Hall- Bales- Seahorses

School of Medicine

48. Caldecott Tunnel- Bein- Rodents
49. G-Barn- Datar- Sheep
50. GBSF- Baumler- Mice
51. GBSF- Goncharova- Rodents
52. Institute for Regenerative Cures (IRC)
53. Med Surgery H1
54. Research Park-Fuller-Mice
55. Research II
56. Tupper Hall- Jao- Fish
57. Tupper Hall- Marsh-Armstrong- Frogs

Office of Student Affairs

64. Equestrian Center



Program Scope: in People and Projects

- 1383 active research, teaching and clinical trial protocols
 - 80 pending approval
- 497 Principal Investigators
- 3,044 support staff
- 64 vivaria units
- 276 Investigator laboratory rooms



October 4, 2022

Program Scope: in Animal Numbers

- Over 8 million animals covered by protocols
 - 6.2 million fish
 - 500,000 frogs
 - 1.2 million mice
 - 100,000 rats
 - 4,100 nonhuman primates
 - 4,000 rabbits
 - 2,800 Cows
 - 8,500 Horses
 - 900 Sheep
 - 7000 Cats



Over 64 different species represented on protocols

Program Scope: in Funding

- 21.4 % of the grant dollars coming to campus involve animal research
- 2022
 - \$229,437,876
 - Total grant dollars
 - 1,071,091,089



Tips New PI – where do I start?



- **Your Department** (is there an internal mentor available?)
- **Animal housing**
 - If within TRACS, “Space Request Form” must be submitted,
 - <https://research.ucdavis.edu/wp-content/uploads/TRACS-Space-Request-Form-fillable-6.3.21.pdf>
 - *Other vivaria are handled at the department or facility manager level*
- **EH&S safety review**
 - BUA, RUA, Chemical Safety
- **Veterinary consultation**
 - Clinical Care
 - Research Support
 - Regulatory Oversight
 - Teaching and Training



Tips New PI – where do I start?

IACUC Protocol

- Reach out to the **IACUC Office** iacuc-staff@ucdavis.edu
 - let us know you are a new PI and are seeking guidance
- **ACU 101** must be completed
 - <https://hr.ucdavis.edu/departments/learning-dev/uc-learning>
- **Occupational Health Program**
 - <https://safetyservices.ucdavis.edu/units/occupational-health/surveillance-system>



© CanStockPhoto.com



Key Animal Care and Use Contacts

- **Animal Care and Use Program**

<https://research.ucdavis.edu/policiescompliance/animal-care-use/>

- **Campus Veterinary Services**

cvs@ucdavis.edu

- **IACUC Office**

iacuc-staff@ucdavis.edu



Thank Research

If.  you take  medicine to treat allergies
• your  doesn't have fleas • your grandmother
has a new hip • you've taken medicine to stop an
ache • you've never had the measles • you've
never breathed with the help of an iron lung • you
don't know what bubonic plague is • you control
your diabetes with insulin • you take vitamins •
your dad has recovered from a heart attack 
your great aunt survived breast cancer • your
doesn't have feline leukemia • your grandpa
has had bypass surgery • your friend has had
a stem cell transplant • you've had a broken
 repaired • your
don't have ulcers • you've had an
operation and you slept through the
whole thing • **you feel great today!!!!**

Celebrating the people, the process and the promise

STATES UNITED FOR BIOMEDICAL RESEARCH

AL • AZ • CA • CT • DE • FL • GA • HI • IL • IN • IA • KS • KY • LA • MA • MD • ME • MI • MN • MO • MS • MT • NC • NE • NH • NJ • NY • OH • OK • OR • PA • RI • SC • SD • TN • TX • VA • VT • WA • WI • WY

www.statesforbiomed.org

Introduction to the UC Davis IRB

Stephen Falwell
IRB Education, Training, and Outreach



What is the purpose of IRB review?



Protect rights and welfare
of research participants



Compliance with applicable
regulations, laws, and policies

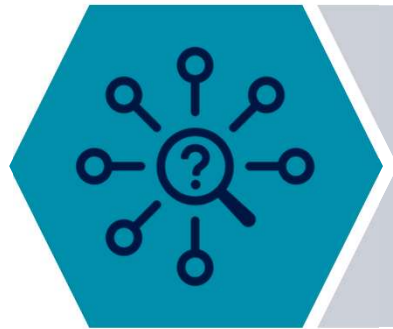


The IRB reviews Human Subjects Research

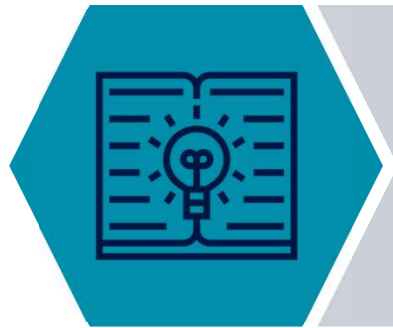
		Is the project research?	
		Yes	No
Does the project involve human subjects?	Yes	Submit to the IRB	IRB review NOT required
	No	IRB review NOT required	IRB review NOT required



What is Research?



Systematic
Investigation



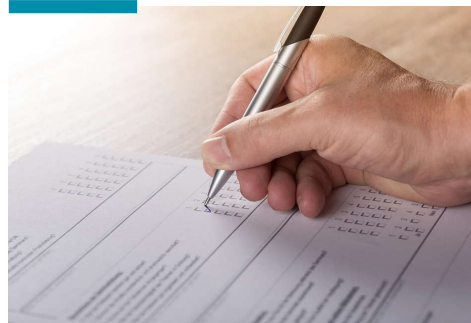
Generalizable
Knowledge



What are Human Subjects?



Intervention



Interaction



Private Identifiable
Information/
Biospecimen

The IRB reviews Human Subjects Research

		Is the project research?	
		Yes	No
Does the project involve human subjects?	Yes	Submit to the IRB <ul style="list-style-type: none"> Clinical Trial Surveys to develop generalizable knowledge Retrospective study using data from patient medical records 	IRB review NOT required <ul style="list-style-type: none"> Case reports/series Quality improvement/assurance Program evaluation
	No	IRB review NOT required <ul style="list-style-type: none"> Analysis of publicly available, anonymous, or de-identified data or biospecimens* Non-human animal research 	IRB review NOT required

Structure of the UC Davis IRB

Institutional Review Board

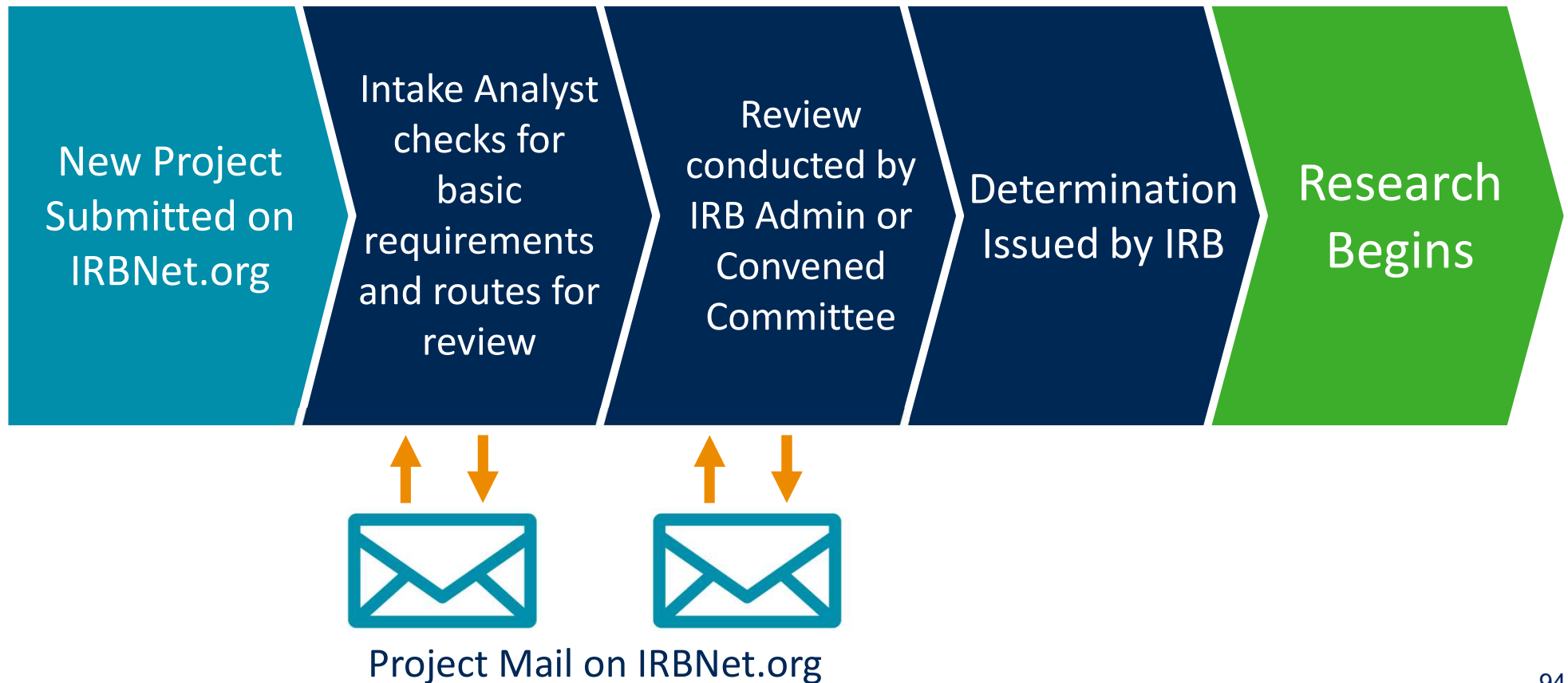
Administration

Biomedical
Committee
A

Biomedical
Committee
B

Social and
Behavioral
Committee
C

The Review Process



IRB Determinations for New Projects

Not Research

**Not Human
Subjects
Research**

Not Engaged

**Modifications
Required**

Deferred

Not Approved

Exempt

Approved



IRB Determinations for New Projects

Not Research

Not Human
Subjects
Research

Not Engaged

IRB review **NOT** required

Exempt

← IRB review required



Recipe for Success



Resources

- ✓ Join our listserv
- ✓ Required Education webpage
 - ↳ www.citiprogram.org
- ✓ IRBNet webpage
 - ↳ www.irbnet.org
- ✓ IRB Forms webpage
- ✓ New Projects webpage
- ✓ UC Davis Investigator Manual



Questions

- ✓ hs-IRBeducation@ucdavis.edu
- ✓ hs-IRBrelance@ucdavis.edu



Thank You!

Office of Research

www.research.ucdavis.edu

