### ACRA

# (Academic Career Readiness Assessment): Setting training expectations for trainees on the academic career track

Laurence Clement, PhD

Program Director, Academic Career Development Director, Research in Career Education Office of Career and Professional Development

Associate Adjunct Professor,
Department of Social and Behavioral Sciences

# What are you and your colleagues most interested in learning during this workshop?

Career qualifications required for jobs at various types of academic institutions

Help trainees assess what they need to do to achieve their career goals

Metrics for achievement

Having a rubric for trainee advising and mentoring

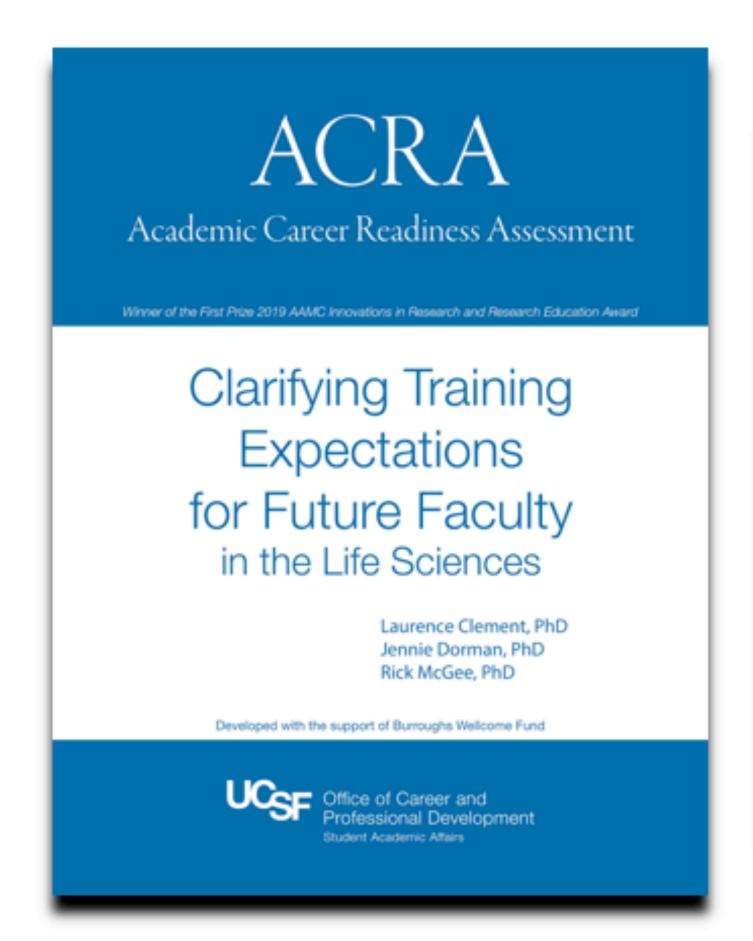
Mentoring, training and managing practices, and expectations of the academic communities.

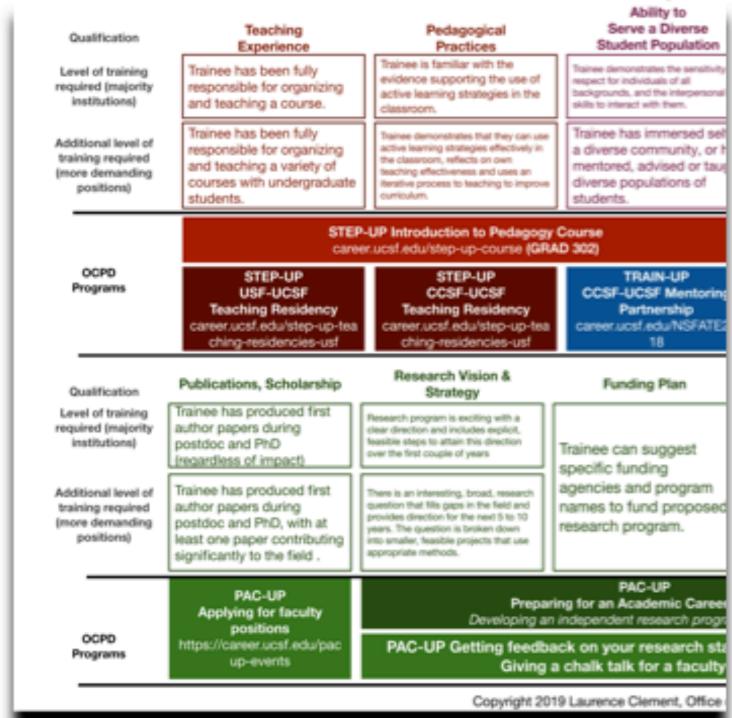
How to set training expectations, talk about progress with trainees, and follow through

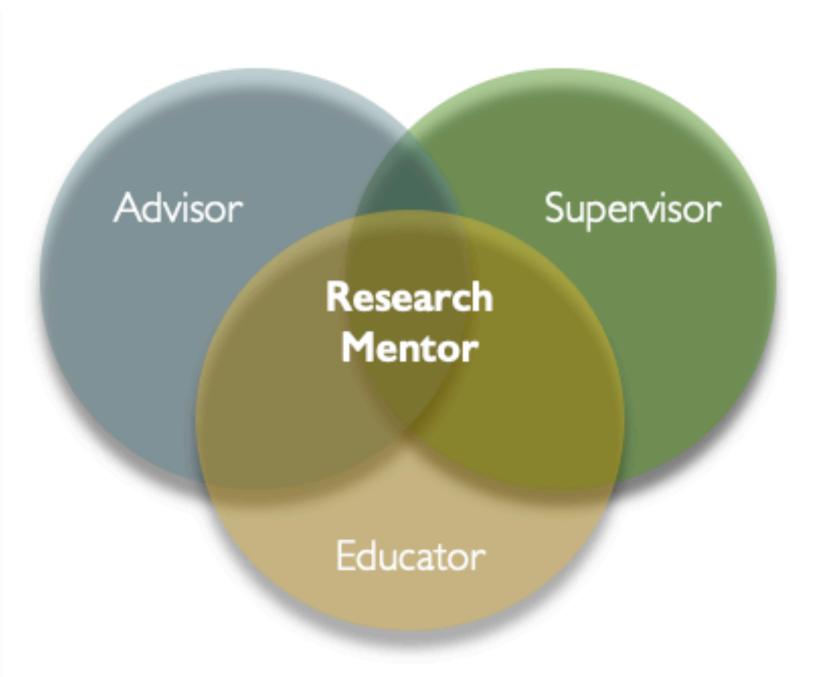
Tips about how to mentor a diverse group of trainees

Timeline for successful trajectory to a competitive faculty application, preparing early-stage trainees to become competitive for a faculty position later

# Agenda







What is ACRA

How we use ACRA

How you could use ACRA

# Academic Career Development at UCSF what I am expected to do

Graduate training

Postdoctoral training

Faculty position

Preparation for faculty positions



Application

Help aspiring faculty get faculty positions

### Goal:

Give every graduate student and postdoc at UCSF the knowledge and skills to make them more competitive for faculty positions, regardless of their background

Strategy:

Develop evidence-based and inclusive programs, interventions and tools for aspiring faculty (through assessment and research)

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Give every graduate student and postdoc at UCSF the knowledge and skills to make them more competitive for

faculty positions,

Strategy: Develop evidence-based and in programs, interventions and for aspiring faculty

(through assessment and research)

Undergraduate institutions around regardless of their backgrothe country had been transforming their approach to education and training, towards evidence-based approaches NSF, HHMI, AAAS and scientific

organizations.

# We are leading efforts in evidence-based graduate career education, nationally











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CETON

ERSITY





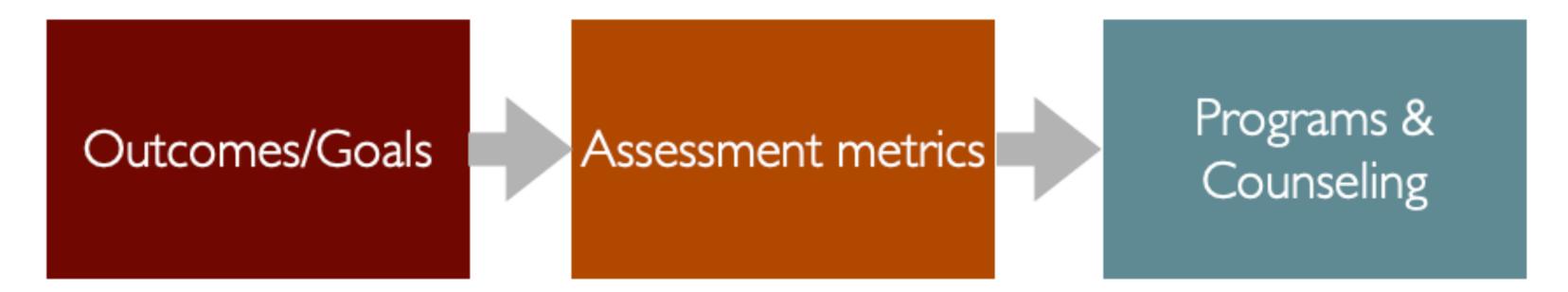








### Evidence-based practice: Backward Designing Interventions



What
outcomes do
trainees need to
reach to be
ready/competitive
for a faculty position

How will they know they are ready?
How can these outcomes be measured?

What training and information do we need to provide to trainees to be ready/competitive for a faculty position?

G. Wiggins (2005)

### Academic Career Development at UCSF

what was being done when I started

### Seminar: Overview of the faculty job application process (Bill Lindstaedt)

### 1:1 Counseling appointments

- Application material review with individual feedback (CV, cover letter, research, teaching, diversity statements)
- 2. Individual issues associated with special circumstances
- 3. Strategies for strengthening the candidacy

### **ISSUE OF EQUITY**

Confusion with expectations

Questions about priorities

Non-RI institutions

(Cultural capital)

ISSUE OF SCALE and ACCESS
2000 trainees (1200 postdocs)
4-month application season
I hour review + prep for each
appointment

### Academic Career Development at UCSF

what was being done when I started

Needed a tool to 30-40 of the faculty job application process (B' communicate workshops a the essential 1:1 Counseling appointments year information ew with individual feedback (CV, co ~100 hours of about faculty nents) content hiring to a large ted with special circumstances just for future population of nening the candidacy faculty

### ISSUE OF EQUITY

Confusion with expectations

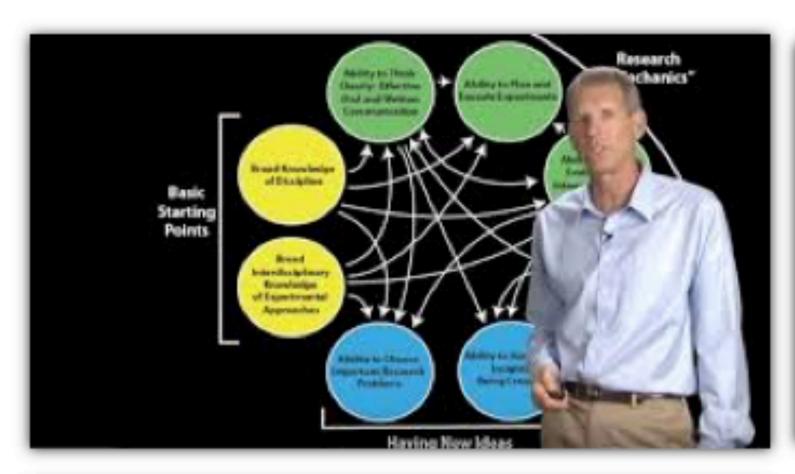
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# Developing a tool to communicate hiring expectations to aspiring faculty





- Applications reviewed by individuals, consensus in committee
- Many documents are skimmed to make the first cut
  - Pedigree: see CV
  - . Fit clinical/teaching/research: see CV and Cover Ltr
  - · Reputation, Ability, Collegiality: see References
  - Productivity: see CV (pubs, degree rate, teaching)
  - · Already vetted as having potential: see CV (funding)
- Next, research/teaching statements may be read carefully



Parker, Roy. 2012. "Skill Development in Graduate Education." *Molecular Cell* 46 (4): 377–81.

# Bill Lindsteadt, Overview of the faculty job application process

The Diabetes Center of the University of California at San Francisco is seeking to appoint new faculty members whose research program will focus on biomedical aspects of Diabetes. The Diabetes Center is chartered to investigate both type I and type II diabetes, as well as the development, differentiation and homeostasis of the cell types and tissues manifesting these diseases. Relevant research areas with this recruitment include immunology/inflammation, B-cell biology, insulin resistance, genetics, bioinformatics, and stem cell research. The appointee will occupy space in the Diabetes Center on the Parnassus Heights campus of UCSF, and will be a member of the Biomedical Sciences Graduate Program.

Basic qualifications:

MD and/or PhD degree(s) or equivalent A research program in type 1 or type 2 diabetes

UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. UCSF is an Equal Opportunity/Affirmative Action Employer.



### Books and articles on faculty hiring

Meriadoc Brandybuck, PhD
Search Committee Chair
Department of Physiology and Biophysics, School of Medicine
R1 University A, USA, 00000-0000

Dear Dr. Brandybuck,

I am writing to express my interest in a tenured faculty position at the level of assistant professor in the Department of Physiology and Biophysics. Currently, I am completing my postdoctoral research training in the laboratory of Samwise Gamgee at the R1 University B (RUB).

My research interests are largely direct towards understanding how physiological systems interact

during human disease. I am particularly interested in learning how the immune system interacts with the system a during disease d and how this interplay influences the development and progression of disease. As a predoctoral student in the laboratory of Farmer Maggot at the R1 University C (RUC), I was trained in the fundamental methodologies of tissue type a research that aided me in investigating the role of cell type ds in tissue type a injury and repair.

During the initial years of my postdoctoral training, I investigated the pathogenic interactions of the immune system with the tissue d and its vascular network in the mouse model of disease A. Through this work I established a firm conceptual and technical framework in immunology that I used to develop an independent line of investigation focused on defining the role of Cell type F and other lymphoid cell regulators in controlling tissue type a inflammation. My research has led to important discoveries that have advanced our understanding of immune regulation during non-autoimmune

Feedback on application materials

Job descriptions

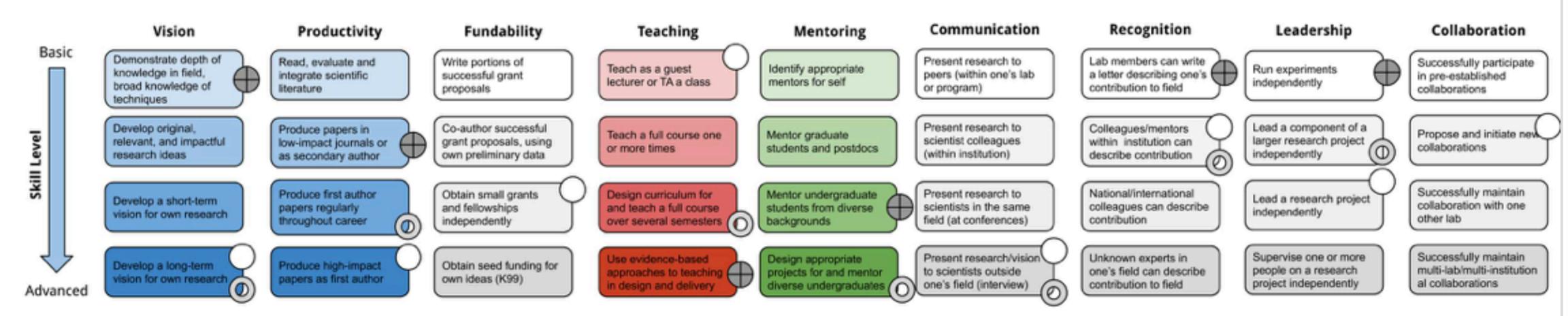
### Prototype Academic Career Readiness Assessment



### Academic Career Readiness Assessment (ACRA) For Upcoming Professors

To be considered for a Faculty position, applicants should be able to:





Target skill level in order to be considered for an interview at institutions with very high research focus (R1 or research/doctoral universities)

Target skill level in order to be considered for an interview at a research-intensive Liberal Arts College (Baccalaureate, Majority Undergraduates)

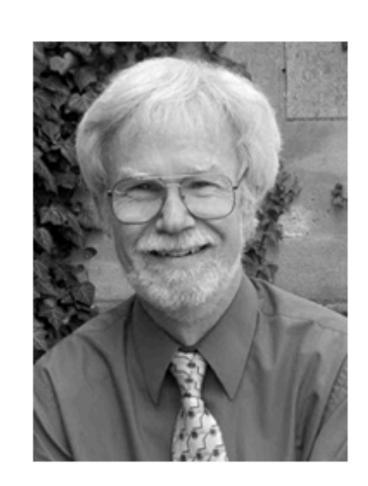
Target skill level in order to be considered for an interview at a competitive Community College (Associate, Undergraduates Only)

Developed by Laurence Clement, PhD, UCSF Office of Career and Professional Development





Jennie Dorman, PhD MIND program co-Pl, UCSF



Rick McGee, PhD Feinberg School of Medicine, Northwestern

### Scientific Careers Research and Development Group

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### Our team: A wealth of experience

in laboratory and social science research and training

#### **Developing Scientific Talents**

The mission of the Scientific Careers Research and Development Group (Careers R&D Group) is to develop new approaches to the training of young scientists that more effectively bring their talents to the scientific enterprise. In so doing, our goal is to contribute to the National mission of maximally stimulating creative problem solving through inclusion of the widest possible range of individuals and the perspectives they bring in research and teaching. To achieve this goal requires much greater participation in the research enterprise by individuals from underrepresented groups.



### Integration of Theory, Research and Practice

The Careers R&D Group brings together a truly unique combination of individuals, resources and opportunities that allow us to bridge and integrate the full cycle of theoretical

ľhD ledicine,

### Using the Benson (1998) framework for instrument validation

### Step 1: Substantive stage

Goal: Establishing the theoretical and empirical domains.

- Theoretical domain: represents our best understanding of the construct
- Empirical domain: operationalizes the construct.

### Step 2: Structural stage

Goal: Determine the extent to which the observed variables covary among themselves, and how they covary with the intended structure of the theoretical domain.

### Step 3: External stage

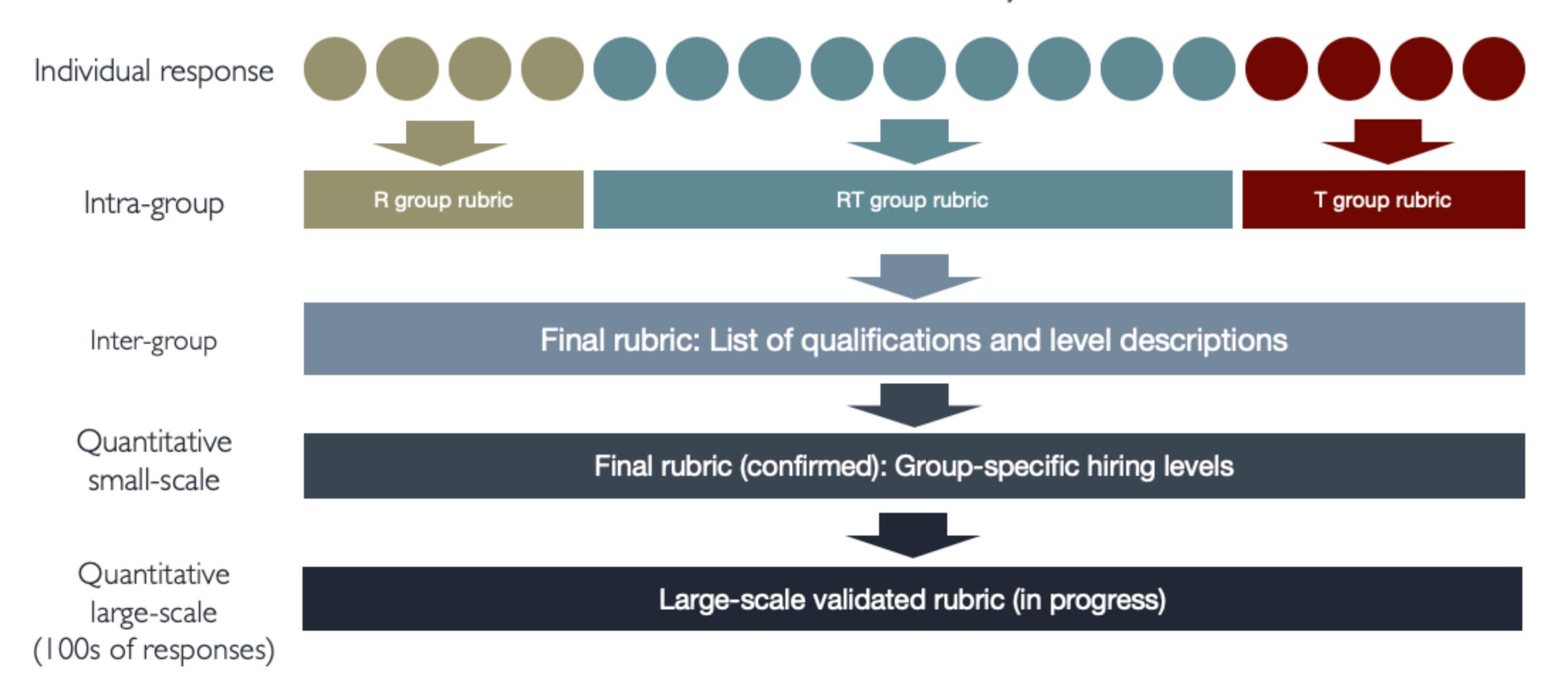
Goal: Description of how the construct is related to other variables (for e.g., group differences).

Use Exploratory Factor Analysis and use ordinal regression in a multilevel model to determine if the sub-constructs can predict group hiring preferences.

# Sampling: study subjects were selected based on the research intensity of institution (according to the 2015 Carnegie Classification of Higher Education)

Carnegie Basic Classification	Abrev.	Faculty	3 groups of institutions	
Doctoral Universities <sup>2</sup> - Highest Research Activity	RI	4	Research-Intensive Institutions (R group)	e.g. UCSF
Doctoral Universities <sup>2</sup> - Higher Research Activity	R2	2		
Doctoral Universities <sup>2</sup> - Moderate Research Activity	R3	2		
Master's Colleges & Universities <sup>3</sup> - Larger Programs	MI	2	Research & Teaching Focused (RT group)	e.g. USF, SFSU
Master's Colleges & Universities 3- Medium Programs	M2	ı	r oodood (iii giodp)	0.8. 00., 0. 00
Baccalaureate Colleges <sup>4</sup>	BAC	2		
Associate's Colleges 5 (Community Colleges)	СС	5	Teaching-Intensive	o a CCSE
	Total	18	Institutions (T group)	e.g. CCSF

# Data Analysis



# Institutions using ACRA in workshops and counseling with graduate students and postdocs











































RESEARCH

# 2019 AAMC Innovations in Research and Research Education Award



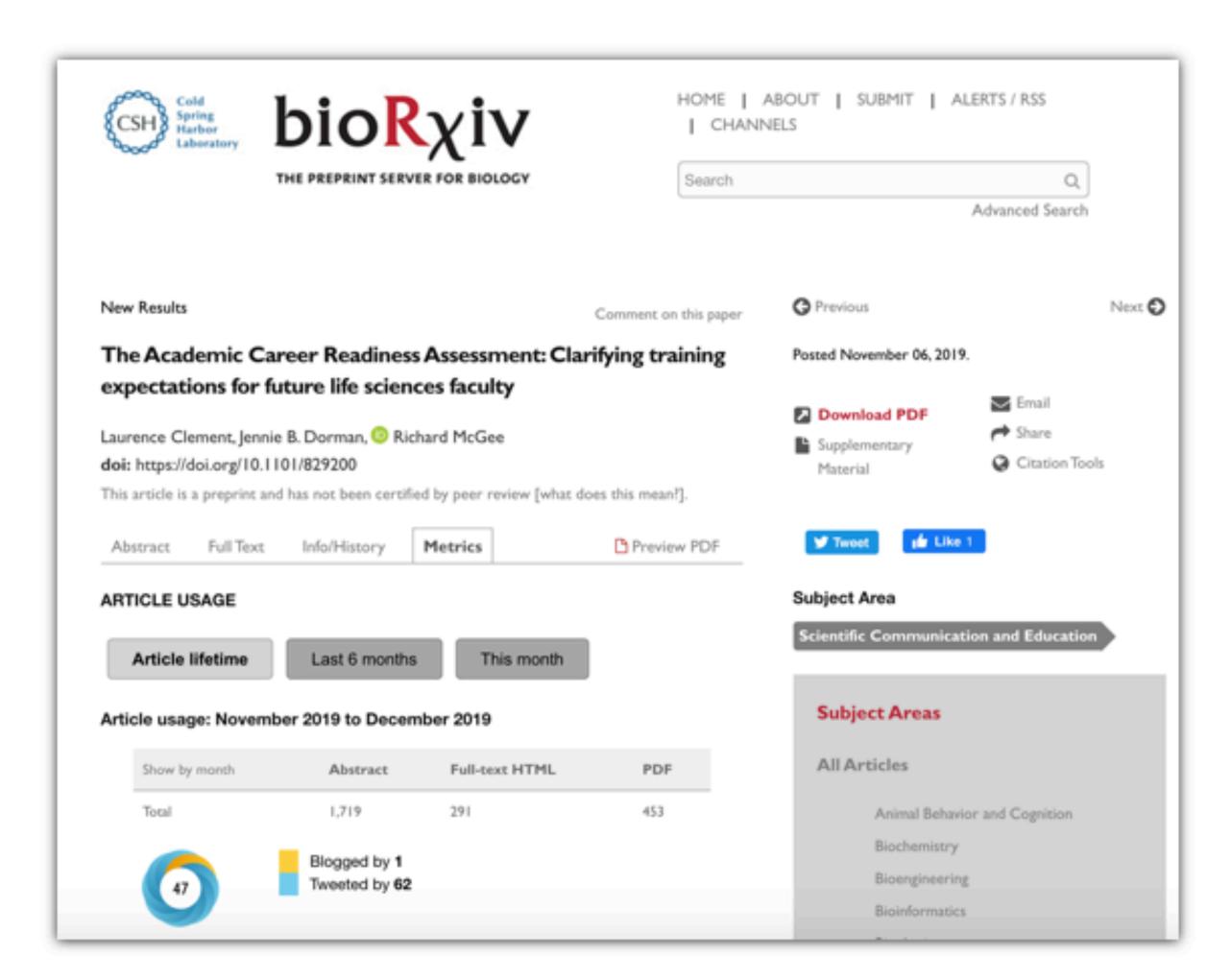
The Association of American Medical Colleges (AAMC) announces four recipients of the 
2019 AAMC Innovations in Research and Research Education Award. This is the eighth 
annual award developed in collaboration with the GREAT Group and GRAND leadership. The 
GREAT (Graduate Research, Education, and Training) Group is the AAMC's professional 
development group for the faculty and administrative leaders of biomedical PhD, MD-PhD, and 
postdoctoral programs. The GRAND (Group on Research Advancement and Development) 
leadership is the AAMC's professional development group for research deans, deans of 
clinical research, and other research leaders at academic medical centers.

The primary goal of this year's awards program is to highlight Innovations to Support the Next Generation of Researchers to Launch and Maintain Scientific Careers. This includes programs that provide support for trainees and for early- and mid-career researchers. The four awarded projects were selected by a panel of leaders in biomedical research, education, and training from AAMC-member institutions as well as AAMC staff. Entries were judged on creativity, impact, and feasibility of replication of the innovation.

#### First Prize Winner

Academic Career Readiness Assessment

University of California, San Francisco - Laurence Clement, PhD



### The Academic Career Readiness Assessment (ACRA)

Qualification Level 1 Level 2 Level 3 Level 4

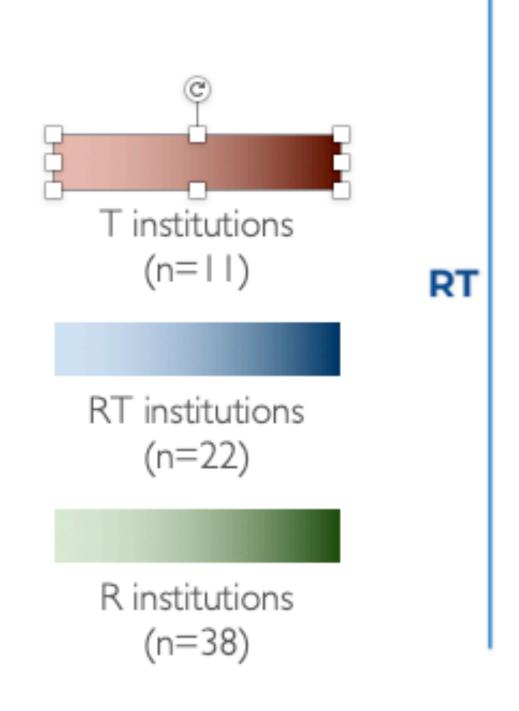
T institutions (n=11)

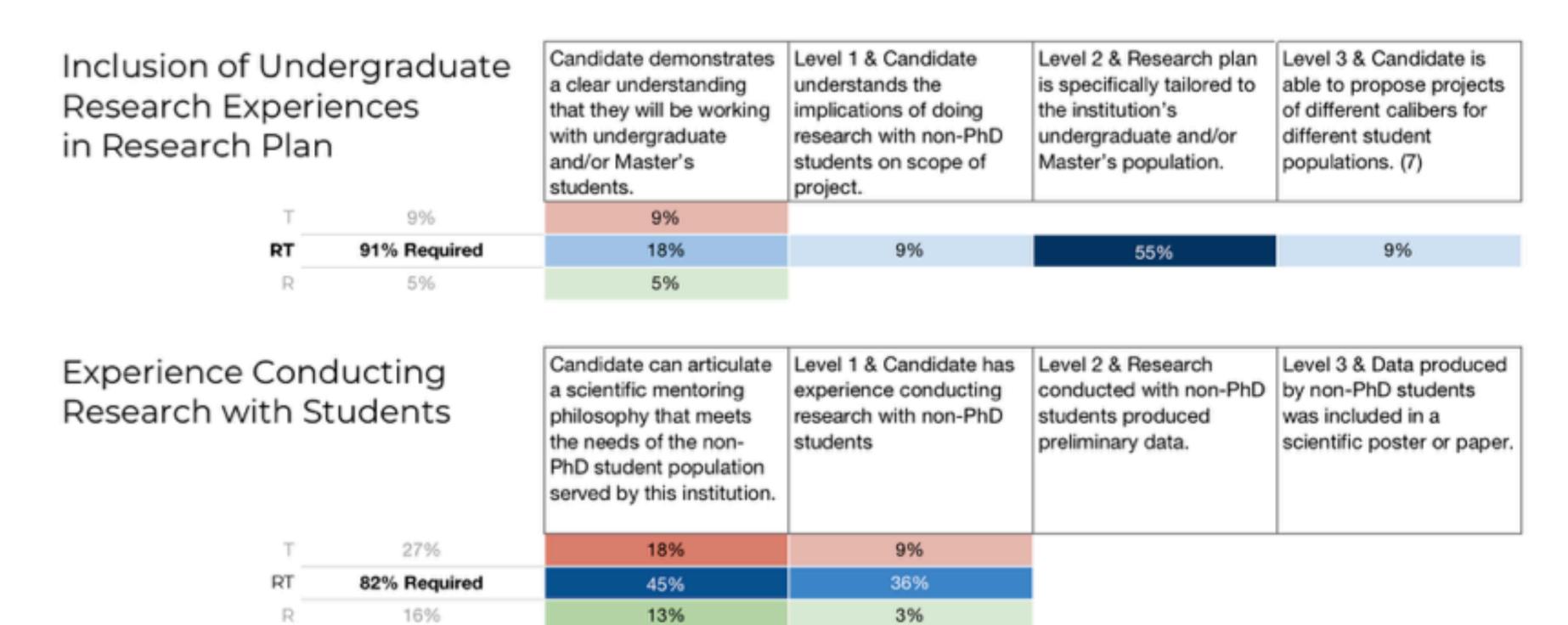
RT institutions (n=22)

R institutions (n=38)

Candidate shows Level 1 & Candidate is Level 3 & Candidate Level 2 & Candidate **Teaching Practices** reflects on own teaching familiar with the evidence awareness of their limited demonstrates that they can use active learning teaching abilities and is supporting the use of effectiveness and uses interested in developing active learning strategies strategies effectively in an iterative process to teaching to improve teaching skills. in the classroom. the classroom. curriculum (1). 18% 27% 18% 91% Required 27% 32% 9% 36% RT 91% Required 14% 32% 11% 42% Candidate has been fully Candidate has had Candidate has been fully Candidate has been fully Teaching Experience significant responsible for responsible for responsible for responsibilities (2) as a organizing (3) and organizing (3) and organizing (3) and teaching a variety of teaching assistant. teaching a course. teaching a course with a courses (5) with a comparable student comparable student population (4). population (4). 100% Required 18% 18% 55% 86% Required 27% 36% RT 14% 9% 21% 21% Level 1 & Candidate has Level 3 & Candidate can Candidate demonstrates Level 2 & Candidate has Commitment and Ability to the sensitivity, respect immersed self in a articulate a personal used strategies to Serve a Diverse support learning of for individuals of all diverse community, or experience with equity or has mentored, advised or diverse populations of backgrounds, and the social justice that Student Population taught diverse interpersonal skills to inspires them to improve students. interact with them. learning experiences of populations of students. diverse populations of students. (6) 82% Required 9% 3% 82% Required 59% 9% 32% 3% 34%

career.ucsf.edu/ACRA





Qualification Level 1 Level 2 Level 3 Level 4

T institutions (n=11)

RT institutions (n=22)

R institutions (n=38)

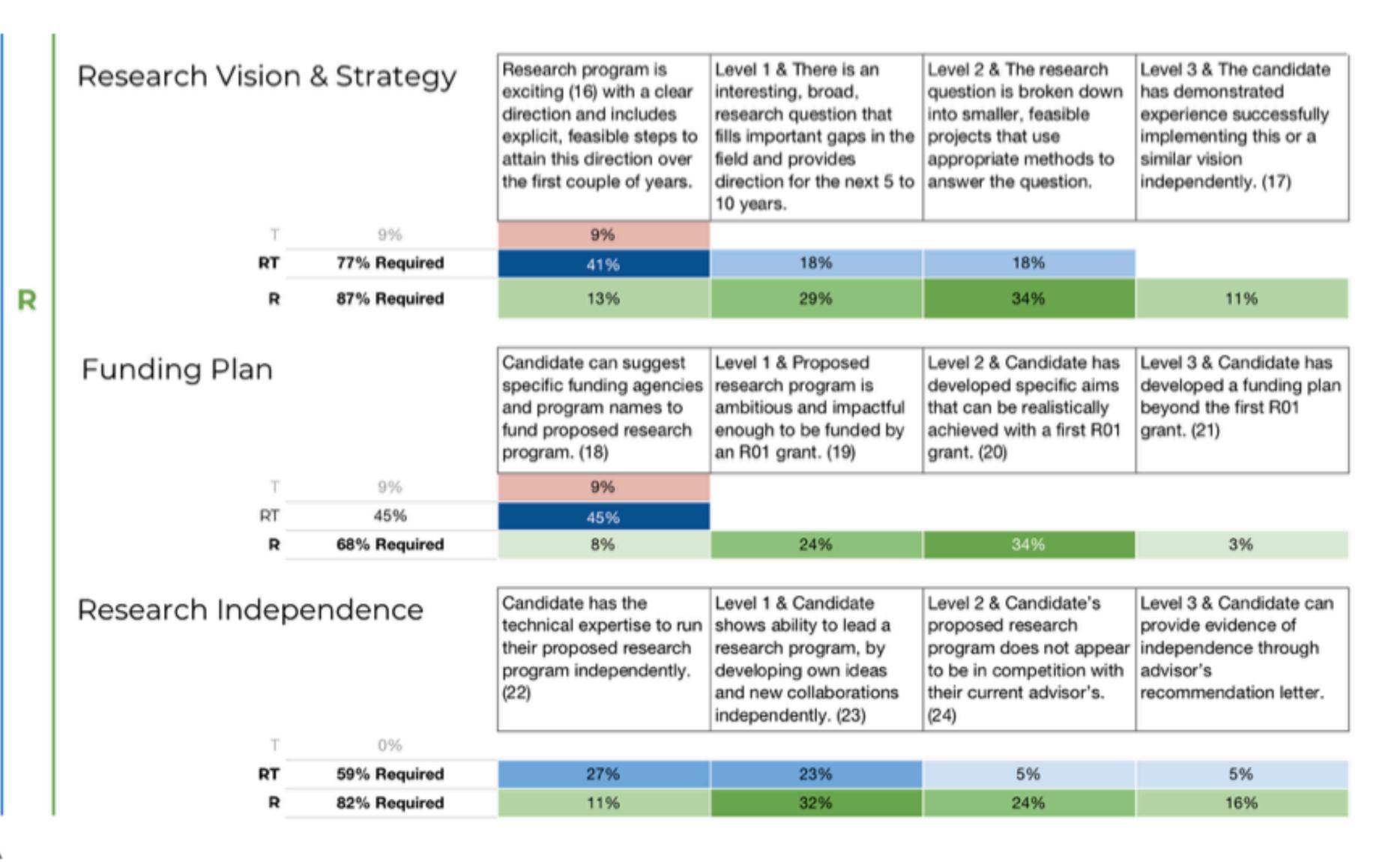
Research Feasibility with Available Resources		Candidate demonstrates ability to develop a research program within the limitations of the start-up funds. (8)	Level 1 & Candidate demonstrates the ability to independently manage and run the equipment required for their research program. (9)	9	Level 3 & Research plan is tailored to the non-R1 institution's highly limited resources. (11)	
7	Т	9%	9%			
RT	т	82% Required	14%	9%	36%	23%
F	R	66% Required	16%	26%	24%	
Verbal Communication of Research		cation	Can present research clearly and effectively to labmates.	Can present science clearly to scientists in the same sub-discipline (for example, to other microbiologists).	Can present science clearly and effectively to scientists outside of subfield.	Can present science clearly and effectively and can spark the interest of scientists outside of subfield and non-PhD students.
7	Τ	27%	9%		9%	9%
RI	т	73% Required			14%	59%
F	R	87% Required		3%	61%	24%
Publications		Candidate has produced a few papers, regardless of authorship or impact.	Candidate has produced first author papers during postdoc and (12) PhD (regardless of impact) (13).	Candidate has produced first author papers during postdoc and (12) PhD, with at least one paper contributing significantly to the field (14).	Candidate has produced first author papers during postdoc and (12) PhD, at least one of which was published in Cell, Nature, or Science (15).	
New 1	Т	18%		18%		
RI	Т	77% Required	9%	64%	5%	
F	R	100% Required		3%	95%	3%

career.ucsf.edu/ACRA

T institutions (n=11)

RT institutions (n=22)

R institutions (n=38)



				Recommen	datio	ns	Enthusiastic and personalized recommendations from both PD and PhD advisors. (25)	Level 1 & letters from other respected scientists who are well known by the search committee AND who know the candidate well. (26)	Level 2 & letters emphasize candidate's ability to be successful as a principal investigator.	Level 3 & letters emphasize that the candidate shows the potential to become a leader in the field.
T institutions	т				т	36%	27%	9%		
(n=  )					RT	73% Required	59%	9%	5%	
					R	92% Required	24%	5%	32%	32%
RT institutions (n=22)				Collegiality			Candidate demonstrates the ability to interact with colleagues in a professional manner.	Levels 1 & Candidate demonstrates the interpersonal skills well- suited for the department' s culture. (27)	Level 2 & Candidate demonstrates willingness to share ideas and resources with colleagues. (28)	Level 3 & Candidate demonstrates the ability to develop collaborative projects with colleagues. (29)
	l	RT			т	91% Required	27%	27%	27%	9%
R institutions					RT	77% Required	5%	41%	27%	5%
(n=38)					R	76% Required	16%	13%	42%	5%
(				Fit			Candidate has sought experiences that align with the institution's teaching/ research mission. (30)	Level 1 & Research or teaching disciplines meet the needs of the department. (31)	Level 2 & Candidate has the ability and determination to handle the high workload. (32)	Level 3 & Candidate highlights potential synergies with others in department or institution.
			R		т	82% Required	18%	45%	9%	9%
					RT	95% Required		55%	23%	18%
					R	82% Required	5%	29%	16%	32%

Level 1

Level 3

Level 2

Level 4

Qualification

### The Academic Career Readiness Assessment (ACRA)

Qualification Level 1 Level 2 Level 3 Level 4

T institutions (n=11)

RT institutions (n=22)

R institutions (n=38)

Teaching Pra	actic	es	Candidate shows awareness of their limited teaching abilities and is interested in developing teaching skills.	Level 1 & Candidate is familiar with the evidence supporting the use of active learning strategies in the classroom.	Level 2 & Candidate demonstrates that they can use active learning strategies effectively in the classroom.	Level 3 & Candidate reflects on own teaching effectiveness and uses an iterative process to teaching to improve curriculum (1).
Т 9		91% Required	18%	27%	27%	18%
	RT	91% Required	14%	36%	32%	9%
	R 42%		32%	11%		
Teaching Ex	Teaching Experience		Candidate has had significant responsibilities (2) as a teaching assistant.	Candidate has been fully responsible for organizing (3) and teaching a course.	Candidate has been fully responsible for organizing (3) and teaching a course with a comparable student population (4).	Candidate has been fully responsible for organizing (3) and teaching a variety of courses (5) with a comparable student population (4).
	т	100% Required	18%	18%	55%	9%
	RT	86% Required	27%	36%	14%	9%
	R		21%			
Commitmer Serve a Dive Student Pop	rse		Candidate demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	Level 1 & Candidate has immersed self in a diverse community, or has mentored, advised or taught diverse populations of students.	Level 2 & Candidate has used strategies to support learning of diverse populations of students.	Level 3 & Candidate can articulate a personal experience with equity or social justice that inspires them to improve learning experiences of diverse populations of students. (6)
Serve a Dive	rse		the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to	immersed self in a diverse community, or has mentored, advised or taught diverse	used strategies to support learning of diverse populations of	articulate a personal experience with equity or social justice that inspires them to improve learning experiences of diverse populations of
Serve a Dive	rse	on	the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	immersed self in a diverse community, or has mentored, advised or taught diverse	used strategies to support learning of diverse populations of students.	articulate a personal experience with equity or social justice that inspires them to improve learning experiences of diverse populations of students. (6)

### ACRA as an assessment tool for trainees

Discriminatory power

Indication of barriers

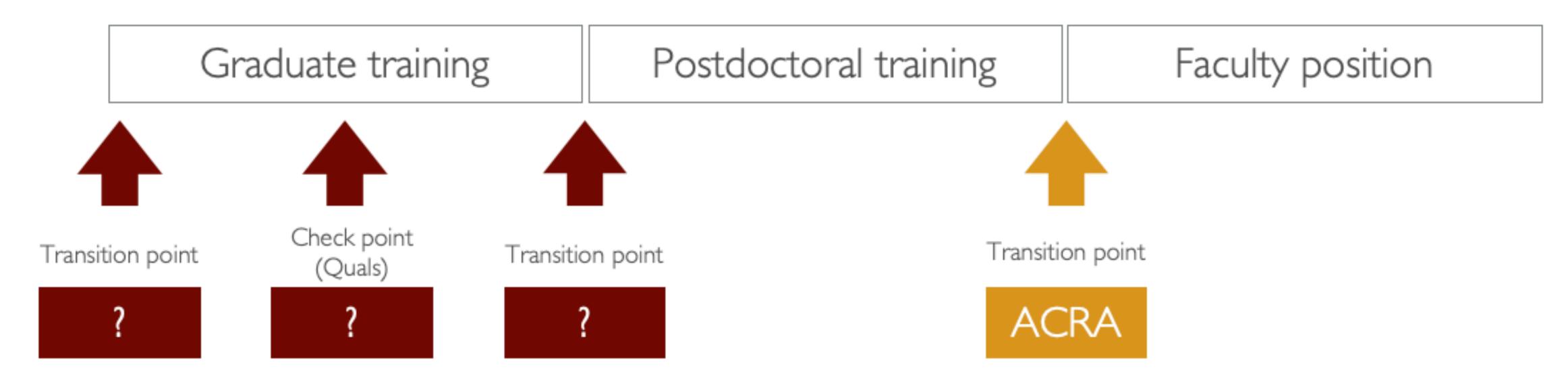
	Sig.	Status	Ethnicity	Readiness
	(AICc)	PD vs GS	WR vs URM	Now vs New Year
TP	18.36			Now>NY
FEA	19.09			Now>NY
PUB	14.28	PD > GS	WR>URM	
VIS	13.12	PD > GS		Now>NY
FUN	12.03			Now>NY
URE	9.99			Now>NY
IND	6.10			Now>NY
TEX	6.35			
EXP	5.84			Now>NY
DIV	2.06		URM>WR	
VCOM	NS	n=83 train	ees	Now>NY

### UCSF faculty:

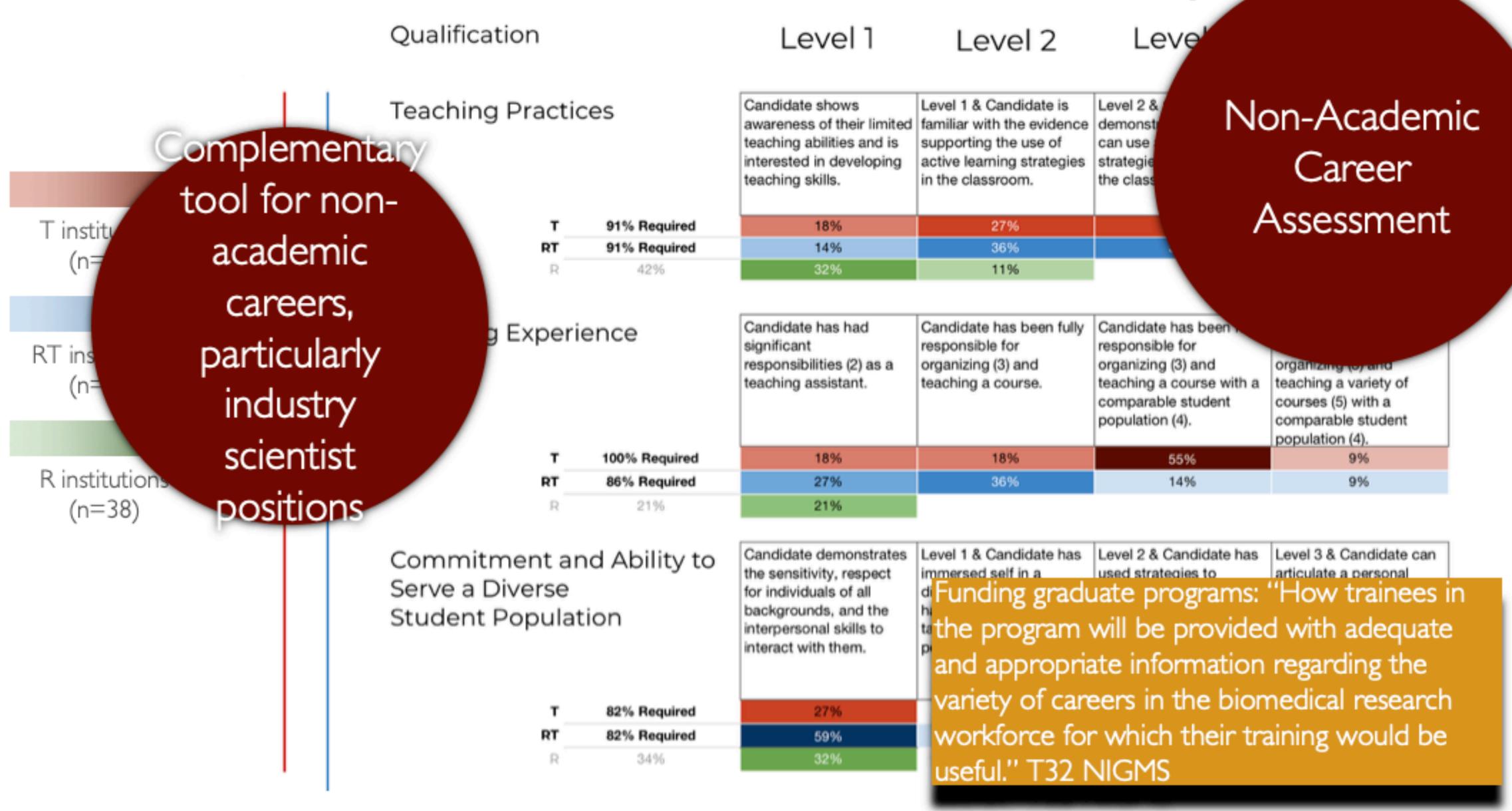
How do you evaluate the potential of a trainee to succeed on the academic track before they apply to faculty positions?

What are the milestones that academic-bound trainees have met or should meet?

What challenges have you or your trainees faced in meeting these milestones?



### The Academic Career Readiness Assessment (ACRA)





in

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Non-Academic Career Assessment



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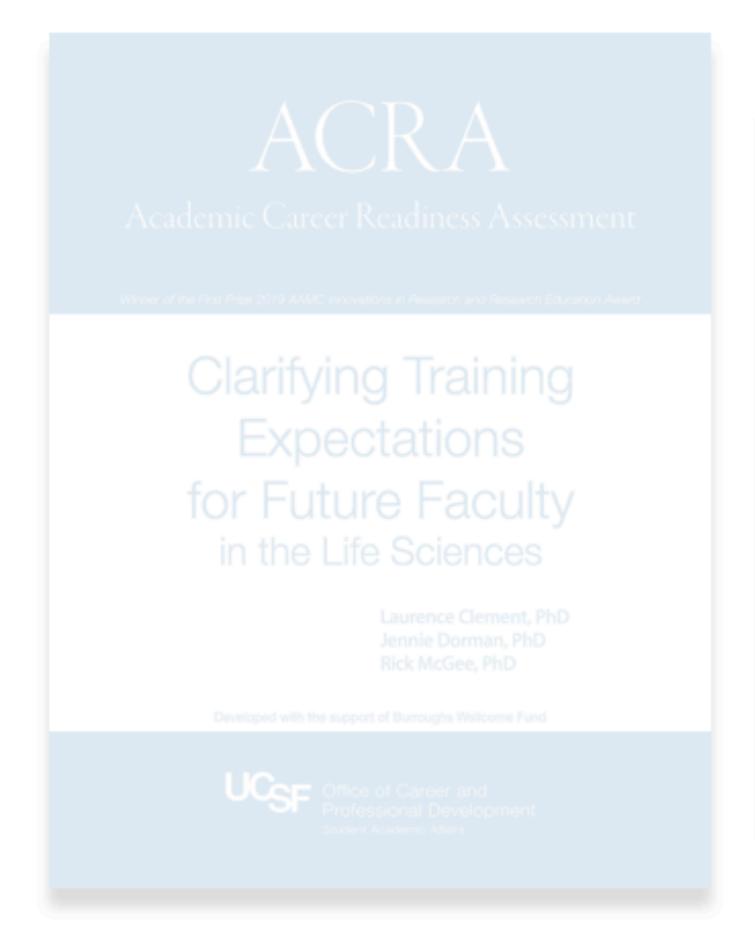
ImaginePhD - a career exploration and planning tool for the humanities and social sciences

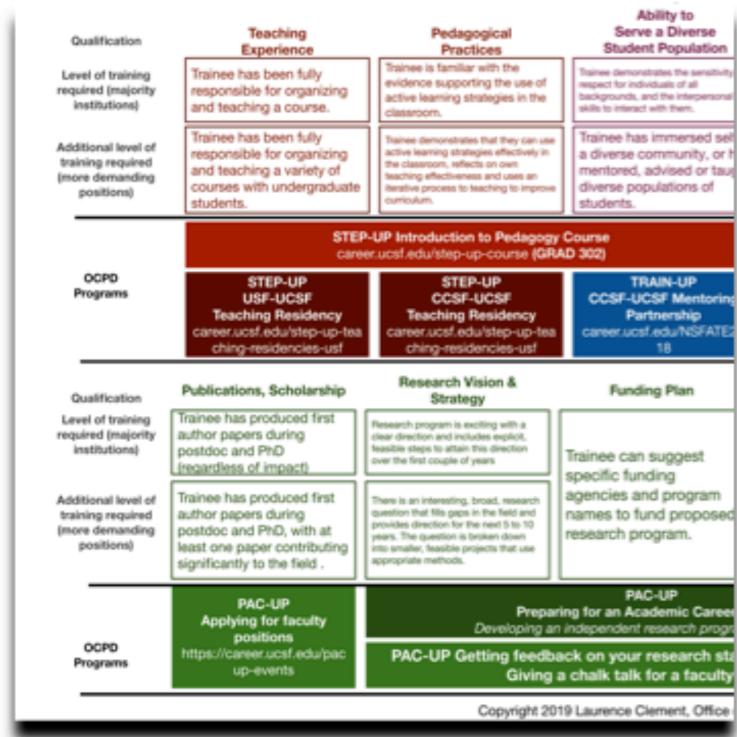
June 29, 2018



**VIEW ALL EVENTS** 

# Agenda





Advisor Supervisor

Research
Mentor

Educator

What is ACRA

How we use ACRA

How you could use ACRA

# Evidence-based practice: Backward Designing Interventions

Academic Career Readiness Assessment

Outcomes/Goals

Assessment metrics

What
outcomes do
trainees need to
reach to be
ready/competitive
for a faculty position

How will they know they are ready?
How can these outcomes be measured?

What career and professional development programs align with ACRA findings?

Programs & Counseling

What training and information do we need to provide to trainees to be ready/competitive for a faculty position?

G. Wiggins (2005)

# Evidence-based practice: Backward Designing Interventions

Academic Career Readiness Assessment

Outcomes/Goals

Assessment metrics

What career and professional development programs align with ACRA findings?

Programs & Counseling

What
outcomes do
trainees need to
reach to be
ready/competitive
for a faculty position

How will they

know they are information do we need to ready? "How the training activities will

How can the employ evidence-based approaches to trainee learning, mentorship, outcomes be inclusion, and professional development."

G. Wiggins (2005)

# Mapping career education curriculum to ACRA qualifications

Qualification	Teaching Experience	Pedagogical Practices	Ability to Serve a Diverse Student Population	Recommendations	Inclusion of Undergraduate Research Experiences in Research Plan	Experience Conducting Research with Students
Level of training required (majority institutions)	Trainee has been fully responsible for organizing and teaching a course.	Trainee is familiar with the evidence supporting the use of active learning strategies in the classroom.	Trainee demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	Enthusiastic and personalized recommendations from both PD and PhD advisors.	Research plan is specifically tailored to the institution's undergraduate and/or Master's population.	Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.
Additional level of training required (more demanding positions)	Trainee has been fully responsible for organizing and teaching a variety of courses with undergraduate students.	Trainee demonstrates that they can use active learning strategies effectively in the classroom, reflects on own teaching effectiveness and uses an iterative process to teaching to improve curriculum.	Trainee has immersed self in a diverse community, or has mentored, advised or taught diverse populations of students.	Letters from other respected scientists who are well known by the search committee AND who know the candidate well.	Trainee is able to propose projects of different calibers for different student populations.	Trainee has experience conducting research with non-PhD students
	STEP-UP Introduction to Pedagogy Course career.ucsf.edu/step-up-course (GRAD 302)				TRAIN-UP Introduction to Mentoring Course career.ucsf.edu/	
OCPD Programs	STEP-UP USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	STEP-UP CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	TRAIN-UP CCSF-UCSF Mentoring Partnership career.ucsf.edu/NSFATE20 18	career.ucsf.edu/ ManageUp	TRAIN-UP-course  TRAIN-UP  CCSF-UCSF Mentoring Partnership  career.ucsf.edu/NSFATE2018	
Qualification	Publications, Scholarship	Research Vision & Strategy	Funding Plan	Research Independence	Research Feasibility with Available Resources	Verbal Communication of Research
Level of training required (majority institutions)	Trainee has produced first author papers during postdoc and PhD (regardless of impact)	Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years	Trainee can suggest specific funding	Trainee has the technical expertise to run their proposed research program independently.	Research program is feasible in the institution's research and geographic environment, which includes some minor constraints.	Trainee can present science clearly and effectively and can
Additional level of training required (more demanding positions)	Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.	There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10 years. The question is broken down into smaller, feasible projects that use appropriate methods.	agencies and program names to fund proposed research program.	Trainee shows ability to lead a research program, by developing own ideas and new collaborations independently. (& evidence of independence through advisor's recommendation letter.)	Research plan is tailored to the non-R1 institution's highly limited resources.	spark the interest of scientists outside of subfield and non-PhD students.
	PAC-UP Applying for faculty		PAC-UP ing for an Academic Career Co independent research program	(GRAD 201) Applying for faculty The		PAC-UP The job talk for a
OCPD	positions				positions	faculty position at a

## Mapping career education curriculum to ACRA qualifications

Ability to

Qualification Teaching Experience		Pedagogical Practices	Serve a Diverse Student Population	Recommendations	Resea F
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		P-UP Introduction to Pedagogy er.ucsf.edu/step-up-course (GR		MANAGE-UP	
OCPD Programs	STEP-UP USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	STEP-UP CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	CCSF-U SF Mentoring Partn rship career.ucsf.edu ISFATE20 18	career.ucsf.edu/ ManageUp	
Qualification	Publications, Scholarship	Research Vision & Strategy	Funding Plan		
Level of training required (majority institutions)	Trainee has produced first author papers during postdoc and PhD (regardless of impact)	Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years	Trainee can suggest specific funding	Trainees	can
Additional level of training required (more demanding positions)	Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.	There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10 years. The question is broken down into smaller, feasible projects that use appropriate methods.	agencies and program names to fund proposed research program.	goals to c	desig
	PAC-UP Applying for faculty	Prepar Developing an	with thei		
OCPD Programs	positions https://career.ucsf.edu/pac up-events	PAC-UP Getting feedbag			

#### Inclusion of Undergraduate earch Experiences in Research Plan

arch plan is specifically ed to the institution's rgraduate and/or er's population.

ee is able to propose cts of different calibers fferent student ations.

#### Experience Conducting Research with Students

Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.

Trainee has experience conducting research with non-PhD students

#### TRAIN-UP

Introduction to Mentoring Course career.ucsf.edu/ TRAIN-UP-course

#### TRAIN-UP

**CCSF-UCSF Mentoring Partnership** career.ucsf.edu/NSFATE2018

n use these training ign a **training plan** er conversations entors

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# Mapping career education curriculum to ACRA qualifications

Ability to

Serve a Diverse

Student Population

Trainee demonstrates the sensitivity,

backgrounds, and the interpersonal

Trainee has immersed self in

a diverse community, or has

mentored, advised or taught

TRAIN-UP

diverse populations of

students.

respect for individuals of all

skills to interact with them.

#### Pedagogical Teaching Qualification Experience Practices Trainee is familiar with the Trainee has been fully Level of training evidence supporting the use of required (majority responsible for organizing active learning strategies in the institutions) and teaching a course. classroom. Trainee has been fully Trainee demonstrates that they can use Additional level of responsible for organizing active learning strategies effectively in training required the classroom, reflects on own and teaching a variety of (more demanding teaching effectiveness and uses an courses with undergraduate iterative process to teaching to improve positions) curriculum. students. STEP-UP Introduction to Pedagogy Course career.ucsf.edu/step-up-course (GRAD 302) OCPD STEP-UP STEP-UP Programs CCSF-UCSF **USF-UCSF** Teaching Residency Teaching Residency career.ucsf.edu/step-up-tea career.ucsf.edu/step-up-tea ching-residencies-usf ching-residencies-usf Research Vision & Publications, Scholarship Strategy Qualification Trainee has produced first Level of training Research program is exciting with a required (majority author papers during

### CSF-UCSF Mentoring Partnership career.u. f.edu/NSFATE20

clear direction and includes explicit,

feasible steps to attain this direction

There is an interesting, broad, research question that fills gaps in the field and

provides direction for the next 5 to 10

years. The question is broken down

into smaller, feasible projects that use

over the first couple of years

### Trainee can suggest specific funding agencies and program names to fund proposed research program.

Funding Plan

### appropriate methods. PAC-UP Preparing for an Academic Career C Developing an independent research program

Inclusion of Undergraduate Research Experiences in Research Plan

Research plan is specifically tailored to the institution's undergraduate and/or Master's population.

Trainee is able to propose projects of different calibers for different student populations.

Experience Conducting Research with Students

Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.

Trainee has experience conducting research with non-PhD students

### MANAGE-UP

Recommendations

Enthusiastic and personalized

Letters from other respected

know the candidate well.

scientists who are well known by

the search committee AND who

and PhD advisors.

recommendations from both PD

career.ucsf.edu/ ManageUp

TRAIN-UP Introduction to Mentoring Course career.ucsf.edu/ TRAIN-UP-course

**TRAIN-UP CCSF-UCSF Mentoring Partnership** career.ucsf.edu/NSFATE2018

Trainees can use these programs to build the skills they need towards their training goals

### OCPD Programs

institutions)

Additional level of

training required

(more demanding

positions)

PAC-UP Applying for faculty positions https://career.ucsf.edu/pac up-events

postdoc and PhD

(regardless of impact)

author papers during

Trainee has produced first

postdoc and PhD, with at

significantly to the field .

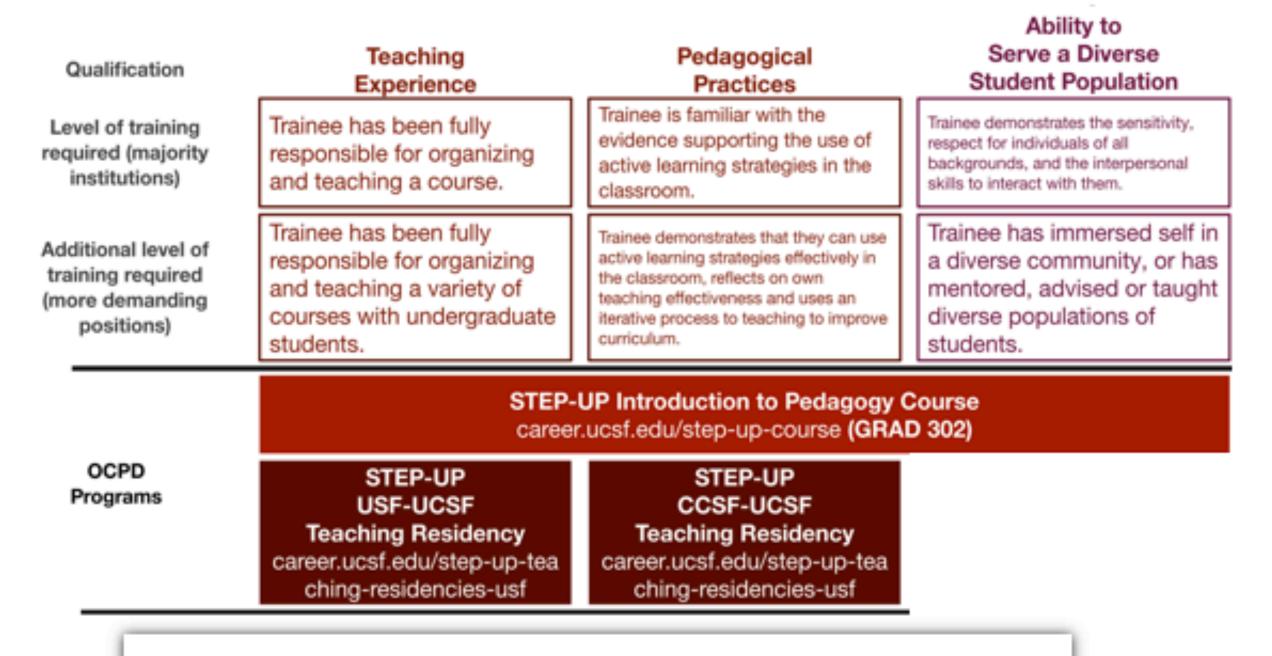
least one paper contributing

PAC-UP Getting feedback on your research state Giving a chalk talk for a faculty p

# A little bit more about the Academic Career programs at OCPD

Qualification	Teaching Experience	Pedagogical Practices	Ability to Serve a Diverse Student Population	Recommendations	Inclusion of Undergraduate Research Experiences in Research Plan	Experience Conducting Research with Students
Level of training required (majority institutions)	Trainee has been fully responsible for organizing and teaching a course.	Trainee is familiar with the evidence supporting the use of active learning strategies in the classroom.	Trainee demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	Enthusiastic and personalized recommendations from both PD and PhD advisors.	Research plan is specifically tailored to the institution's undergraduate and/or Master's population.	Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.
Additional level of training required (more demanding positions)	Trainee has been fully responsible for organizing and teaching a variety of courses with undergraduate students.	Trainee demonstrates that they can use active learning strategies effectively in the classroom, reflects on own teaching effectiveness and uses an iterative process to teaching to improve curriculum.	Trainee has immersed self in a diverse community, or has mentored, advised or taught diverse populations of students.	Lattere from other reconcited	Trainee is able to propose projects of different calibers for different student populations.	Trainee has experience conducting research with non-PhD students
	STEP-UP Introduction to Pedagogy Course career.ucsf.edu/step-up-course (GRAD 302)				Introduction to	AIN-UP Mentoring Course :ucsf.edu/
OCPD Programs	STEP-UP USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	STEP-UP CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	TRAIN-UP CCSF-UCSF Mentoring Partnership career.ucsf.edu/NSFATE20 18	career.ucsf.edu/ ManageUp	TRAIN-UP-course  TRAIN-UP  CCSF-UCSF Mentoring Partnership  career.ucsf.edu/NSFATE2018	
Qualification	Publications, Scholarship	Research Vision & Strategy	Funding Plan	Research Independence	Research Feasibility with Available Resources	Verbal Communication of Research
Level of training required (majority institutions)	Trainee has produced first author papers during postdoc and PhD (regardless of impact)	Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years	Trainee can suggest specific funding	Trainee has the technical expertise to run their proposed research program independently.	Research program is feasible in the institution's research and geographic environment, which includes some minor constraints.	Trainee can present science clearly and effectively and can
Additional level of training required (more demanding positions)	Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.	There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10 years. The question is broken down into smaller, feasible projects that use appropriate methods.	agencies and program names to fund proposed research program.	Trainee shows ability to lead a research program, by developing own ideas and new collaborations independently. (& evidence of independence through advisor's recommendation letter.)	Research plan is tailored to the non-R1 institution's highly limited resources.	spark the interest of scientists outside of subfield and non-PhD students.
	PAC-UP Applying for faculty		PAC-UP ing for an Academic Career Co independent research program		PAC-UP Applying for faculty	PAC-UP The job talk for a
OCPD positions https://career.ucsf.edu/pac up-events		PAC-UP Getting feedba	ack on your research state a chalk talk for a faculty po	ment, Demonstration:	positions https://career.ucsf.edu/p acup-events	faculty position at a PUI

Qualification	Teaching Experience	Pedagogical Practices	Ability to Serve a Diverse Student Population	Recommendations	Inclusion of Undergraduate Research Experiences in Research Plan	Experience Conducting Research with Students	
Level of training required (majority institutions)	Trainee has been fully responsible for organizing and teaching a course.	Trainee is familiar with the evidence supporting the use of active learning strategies in the classroom.	Trainee demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	Enthusiastic and personalized recommendations from both PD and PhD advisors.	Research plan is specifically tailored to the institution's undergraduate and/or Master's population.	Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.	
Additional level of training required (more demanding positions)	Trainee has been fully responsible for organizing and teaching a variety of courses with undergraduate	Trainee demonstrates that they can use active learning strategies effectively in the classroom, reflects on own teaching effectiveness and uses an iterative process to teaching to improve	Trainee has immersed self in a diverse community, or has mentored, advised or taught diverse populations of	Letters from other respected scientists who are well known by the search committee AND who	Trainee is able to propose projects of different calibers for different student	Trainee has experience conducting research with	
			OCPD pro	arame			
OCPD		C	OCPD pro		. III		
Programs	for academic-bound trainees are called						
			"UP	<b>99</b>			
Qualification			for				
Level of training required (majority institutions)	Upcoming Professors						
Additional level of training required (more demanding positions)	Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field .	question that fills gaps in the field and provides direction for the next 5 to 10	research program.	Trainee shows ability to lead a research program, by developing own ideas and new collaborations independently. (& evidence of independence through advisor's recommendation letter.)	Research plan is tailored to the non-R1 institution's highly limited resources.	spark the interest of scientists outside of subfield and non-PhD students.	
	PAC-UP Applying for faculty		PAC-UP ng for an Academic Career Co independent research program (		PAC-UP Applying for faculty	PAC-UP The job talk for a	
OCPD Programs	positions https://career.ucsf.edu/pac up-events	PAC-UP Getting feedba	ck on your research staten chalk talk for a faculty pos	nent, Demonstration:	positions https://career.ucsf.edu/p acup-events	faculty position at a	



We teach trainees how to support diversity in the classroom through evidence-based practices.

"I cannot stress enough how going through STEP-UP has really made me so competitive in the academic job market. The types of conversations I am able to have with faculty and knowledge of so many active learning strategies has really served me well." STEP-UP Series

Science Teaching Effectiveness Program

Introduction to Pedagogy Course (GRAD 302, Spring quarter)

USF-UCSF Teaching Residency CCSF-UCSF Teaching Opportunity

Science Education Research Journal Club

**TRAIN-UP Series** 

Training Researchers and Interns

Introduction to Mentoring Program (4 workshops, Summer and Winter quarters)

UCSF-CCSF Inclusive Mentoring Fellows (new, Spring and Fall 2020)

NSF-funded

Mentoring Workshops (TRAIN-UP applied)

#### Ability to Serve a Diverse Student Population

Trainee demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.

Trainee has immersed self in a diverse community, or has mentored, advised or taught diverse populations of students.

#### Inclusion of Undergraduate Research Experiences in Research Plan

Research plan is specifically tailored to the institution's undergraduate and/or Master's population.

Trainee is able to propose projects of different calibers for different student populations.

#### Experience Conducting Research with Students

Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.

Trainee has experience conducting research with non-PhD students

#### TRAIN-UP

Partnership
career.ucsf.edu/NSFATE20



#### TRAIN-UP

Introduction to Mentoring Course career.ucsf.edu/ TRAIN-UP-course

#### TRAIN-UP

CCSE-LICSE Mentoring Partnership

We teach trainees
how to be inclusive
research mentors and
manage for
productivity and wellbeing of their
research team.

PAC-UP Series

Preparing for an Academic Career

Exploring Faculty Careers workshop (for early graduate students, introduces ACRA)

Preparing for an Academic Career course Developing an independent research program (new: GRAD 201, Winter quarter)

Applying, Interviewing and Negotiating positions (6+ workshops, Summer-Fall)

We supplement

career and professional development for faculty careers using ACRA-based materials.

#### Qualification

Level of training required (majority institutions)

Additional level of training required (more demanding positions)

OCPD

Programs

#### Publications, Scholarship

Trainee has produced first author papers during postdoc and PhD (regardless of impact)

Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.

#### Research Vision & Strategy

Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years

There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10 years. The question is broken down into smaller, feasible projects that use appropriate methods.

#### Funding Plan

Trainee can suggest specific funding agencies and program names to fund proposed research program.

#### Research Independence

Trainee has the technical expertise to

run their proposed research program independently.

Trainee shows ability to lead a research program, by developing own ideas and new collaborations independently. (& evidence of independence through advisor's recommendation letter.)

#### Research Feasibility with Available Resources

Research program is feasible in the institution's research and geographic environment, which includes some minor constraints.

Research plan is tailored to the non-R1 institution's highly limited resources.

#### Verbal Communication of Research

Trainee can present science clearly and effectively and can spark the interest of scientists outside of subfield and non-PhD students.

#### PAC-UP

Applying for faculty positions
https://career.ucsf.edu/pacup-events

#### PAC-UP

Preparing for an Academic Career Course

Developing an independent research program (GRAD 201)

PAC-UP Getting feedback on your research statement, Demonstration: Giving a chalk talk for a faculty position

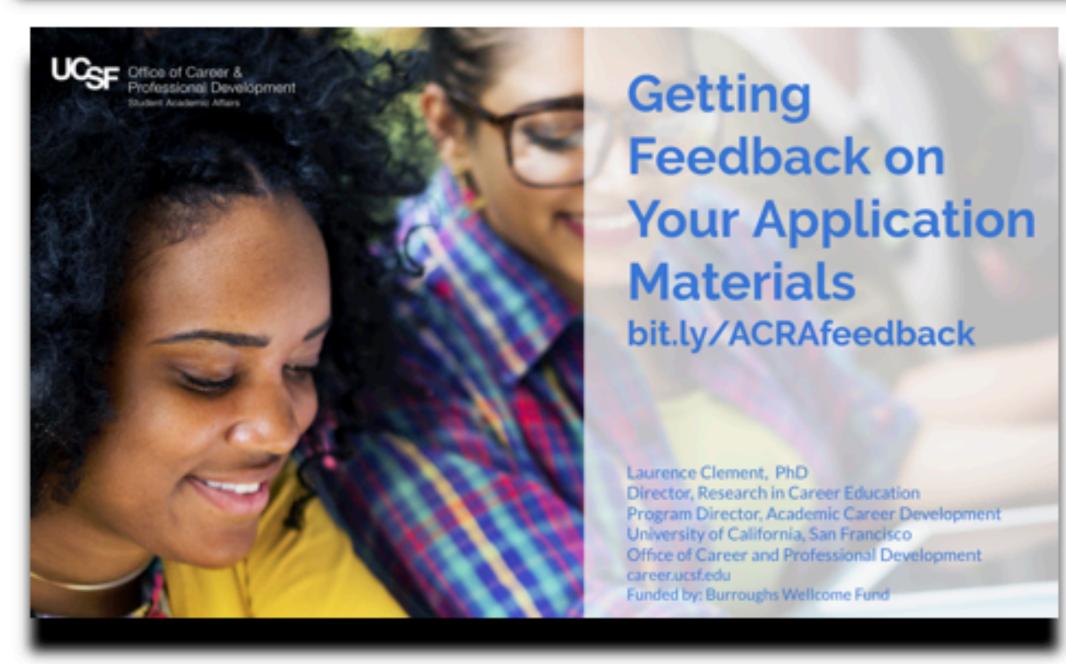
# PAC-UP Applying for faculty positions

https://career.ucsf.edu/p acup-events PAC-UP
The job talk for a faculty position at a PUI

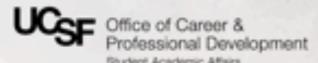
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### Getting Feedback on your Research Statement

Laurence Clement, PhD
Director, Research in Career Education
Program Director, Academic Career
Development
University of California, San Francisco
Office of Career and Professional
Development

career.ucsf.edu @LaurenceEdu@UCSFOCPD



### Getting Feedback on your Teaching Statement

Laurence Clement, PhD
Director, Research in Career Education
Program Director, Academic Career
Development
University of California, San Francisco
Office of Career and Professional
Development

career.ucstedu @LaurenceEdu@UCSFOCPD



Use a header so readers can quickly situate you. It is common for trainees to use the institution's header for faculty applications.

Laurence Clement, PhD inter for Cell Signaling San Francisco, CA 94143

Laurence.clement@ucsf.edu

Department of Biology University of California, Los Angeles Biological Sciences Building 1200 Main Way, Los Angeles, CA 90095 One of the ways to show fit for a position is to address the requirements of the job description at the beginning of the Cover Letter, and to use similar key words. This CL would be a nice fit for a position that requires the use of innovative methodologies to address current research questions in cancer biology. It would also address the need for a strong research vision, since the vision is listed first, and for a collaborative approach.

Dear Professor Rabu,

August 19, 2015

Phone: (415) 502-3097

Indicate which position you are applying for

your contact

info is listed

on the first

I am writing to apply for the Assistant Professor position (Job ID#13456) in the Department of Biology at University of California, Los Angeles. | am currently ostdoctoral scholar working with Dr. Ju Cheng in the Department of Physiology and cell Biology in the Center of Cell Signaling at the University of California San Francisco. My research focuses on the role of protein XYZ in the development of pancreatic cancer, and involves the use of a novel biological assay, which I developed at UCSF. I am inthusiastic about contributing to your growing and innovative department.

Reputation: Advisor & institution

Fit

Fundability:

Clear Vision

Pancreatic adenocarcinoma accounts for about 85% of pancreatic cancer cases and, vhile survival rates have been improving in the last few decades, the prognosis for patients is still pessimistic. My research goals are to continue to elucidate the role of protein XYZ in diseases like pancreatic cancer and to further develop in vivo assays that ould be used in clinical settings to help with early detection of such diseases. Particularly, I will continue my collaboration with Dr. Brown and Dr. Johnson at Harvard ledical School to explore the application of a novel detection method in certain forms of cancer, including pancreatic cancer.

Reputation:

developed this novel approach to measuring phosphorylation levels of protein XYZ in vivo during my postdoctoral training in Dr. Cheng's lab. My work resulted in a manuscript, which is currently under revision, and a patent, which is pending. For this work, I received a Travel Award from the American Biological Society and co-authored a grant with Dr. Cheng and Dr. Brown funded by the Next Science Fund.

Collaborators

My research goal is also to identify the downstream signaling cascade of protein XYZ, which will allow us to further elucidate the mechanisms involved in the PQR process lecause XYZ is involved in many diseases, and is a marker for some types of cancer: his result could have broad biomedical impacts. To achieve this goal, I plan to use

Productivity: findings, publications, patents

> Fundability: Past funding

ombination of molecular, cellular and physiological methods in the VETA organism

Format: with hundreds of applications to read, faculty will need answers to their questions in the first paragraphs of the Cover Letter

> Fundability: Clear Vision

Productivity: findings, publications

> Fundability: Past funding

> > Fit

mechanism depended on the phosphorylation of protein XYZ (Clement et al., Nature, 2015). This work was funded by a Myriam Lee Postdoctoral Fellow award and resulted n a manuscript, which is in its last stage of review in JBC. I believe that this project would benefit from being further developed in your department, and can foresee potential collaborations with colleagues working on the VETA model, or on the HIJ signaling pathway.

As a postdoctoral scholar, I used similar approaches to demonstrate that the PQR

Pages get lost: indicate total number of pages

### ACRA-related materials on our website

RT ACRA checklist: Can you find this information in the Research Statement?

Feasibility	
Can this project be executed with limited resources? Does the candidate signal they understand the resource constraints of RT institutions?	
Communication of research	
Is the research plan understandable by a non-expert faculty from the same department? Will undergrads find it exciting?	
Inclusion of undergraduates	
Can undergrads conduct this research with limited knowledge and time? What will they learn from working on these projects?	
Mentoring experience	
Does the candidate know how to work with undergrads in the lab?	
Can they serve the needs of a diverse student population?	
Fit	
Does it look like this application is a backup plan for the candidate (ie does it look too much like a R research statement)?	

Publications: Productivity & Impact	
Candidate has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.	
+) Has a Cell, Nature, Science paper	
Funding Plan	
Proposed research program is ambitious and impactful enough to be funded by an R01 grant.	
Fit for position	
Research fits the needs of the department	
+) Potential synergies with others in department	
Research program	
I. Vision & Strategy	
Research program is exciting, with a clear direction	
<ul> <li>Interesting, broad, research question that fills important gaps in the field and provides sirection for the next 5 to 10 years.</li> </ul>	
2. Independence	
Candidate shows ability lead a research program, by developing own ideas and new collaborations independently.	
<ul> <li>+) Candidate's proposed research program does not appear to be in competition with their current advisor's.</li> </ul>	



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## A little bit more about our programs

### Manage-Up Series

Manage-Up for Third Year students
(Having a career conversation with your Pl,
Managing your relationship with your research mentor,
Identifying and managing your mentorship team)

Manage-Up for Applying to Positions
(Strengthening your candidacy,
Handling Q&A,
Interviewing while pregnant,
Interviewing to find if a place is the right fit)

#### Recommendations

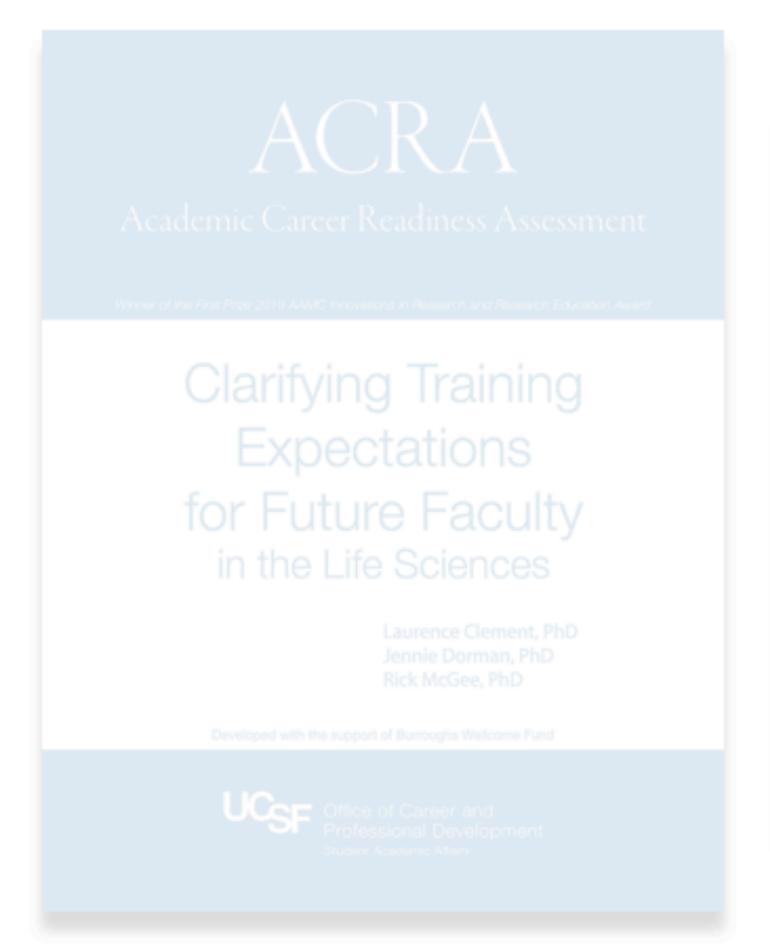
Enthusiastic and personalized recommendations from both PD and PhD advisors.

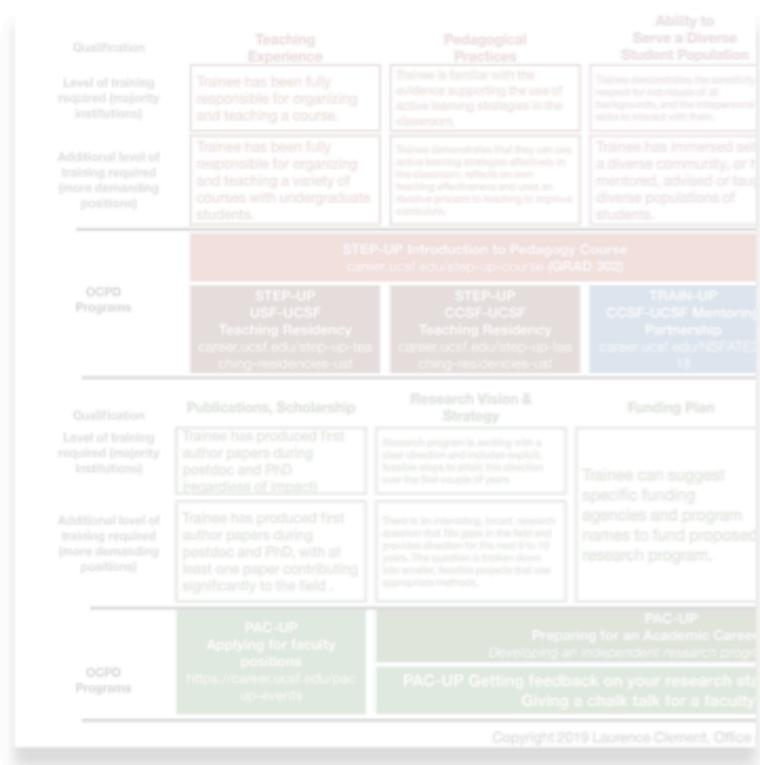
Letters from other respected scientists who are well known by the search committee AND who know the candidate well.

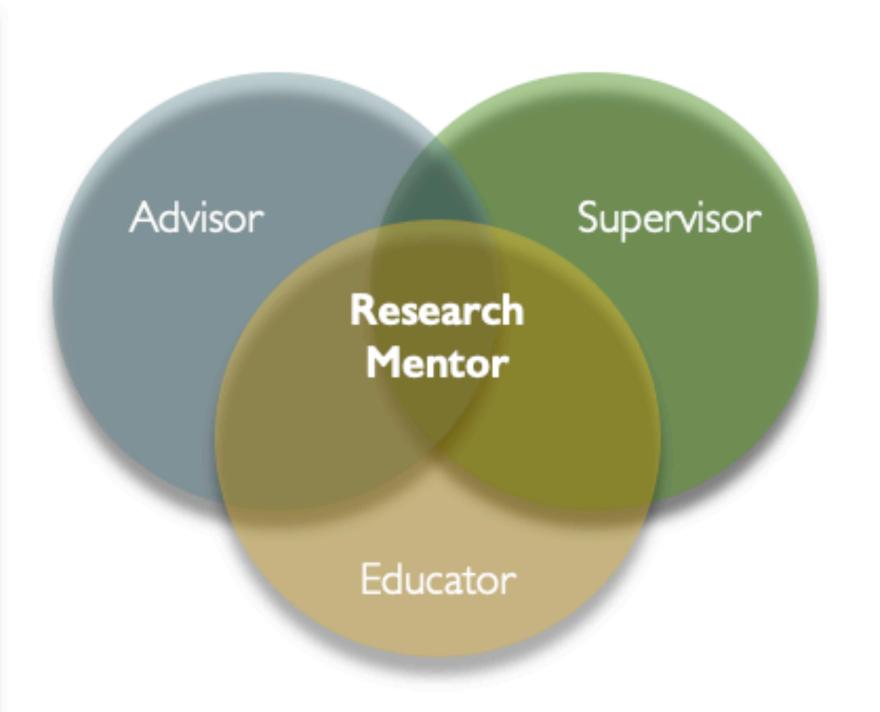
#### MANAGE-UP

career.ucsf.edu/ ManageUp We teach trainees to assess and navigate any professional relationship and environment, for improved productivity and well-being.

# Agenda







What is ACRA

How we use ACRA

How you could use ACRA

# Mapping our programs to ACRA qualifications

Qualification	Teaching Experience	Pedagogical Practices	Ability to Serve a Diverse Student Population	Recommendations	Inclusion of Undergraduate Research Experiences in Research Plan	Experience Conducting Research with Students
Level of training required (majority institutions)	Trainee has been fully responsible for organizing and teaching a course.	Trainee is familiar with the evidence supporting the use of active learning strategies in the classroom.	Trainee demonstrates the sensitivity, respect for individuals of all backgrounds, and the interpersonal skills to interact with them.	Enthusiastic and personalized recommendations from both PD and PhD advisors.	Research plan is specifically tailored to the institution's undergraduate and/or Master's population.	Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.
Additional level of training required (more demanding positions)	Trainee has been fully responsible for organizing and teaching a variety of courses with undergraduate students.	Trainee demonstrates that they can use active learning strategies effectively in the classroom, reflects on o teaching effectiveness and uses in iterative process to teaching to improve curriculum.	Trainee has immersed self in a diverse community, or has mentored, advised or taught diverse populations of students.	Letters from other respected scientists who are well known by the search committee AND who know the candidate well.	Trainee is able to propose projects of different calibers for different student populations.	Trainee has experience conducting research with non-PhD students
	STEP-UP Introduction to Pedagogy Course career.ucsf.edu/step-up-course (GRAD 302)			MANAGE-UP	TRAIN-UP Introduction to Mentoring Course career.ucsf.edu/	
OCPD Programs	STEP-UP	STEP-UP	CCSE IN SE Montoring	coroor upof odu/	TRAIN-UP-course	
				career usef edu/	THAIN-0	r-course
Programs	USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	CCSF-UCSF Teaching Residency	CCSF-U SF Mentoring Partn rship career.ucsf.edu ISFATE20 18	career.ucsf.edu/ ManageUp	TRAI CCSF-UCSF Men	N-UP toring Partnership u/NSFATE2018
	USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea	CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea	Partnership career.ucsf.edu. \(\text{ISFATE20}\)		TRAI CCSF-UCSF Men	N-UP toring Partnership
Programs	USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf	CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf  Research Vision & Strategy  Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years	Partnership career.ucsf.edu. ISFATE20 18  Funding Plan  Trainee can suggest	ManageUp	TRAI CCSF-UCSF Men	N-UP toring Partnership u/NSFATE2018
Qualification  Level of training required (majority institutions)  Additional level of	USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf  Publications, Scholarship  Trainee has produced first author papers during postdoc and PhD (regardless of impact)  Trainee has produced first	CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf  Research Vision & Strategy  Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years  There is an interesting, broad, research	Particular SF Mentoring Particular Ship career.ucsf.edu. SFATE20 18  Funding Plan  Trainee can suggest specific funding agencies and program	Mentors of	ccsf-ucsf Men career.ucsf.ed	N-UP toring Partnership u/NSFATE2018
Qualification  Level of training required (majority institutions)	USF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf  Publications, Scholarship  Trainee has produced first author papers during postdoc and PhD (regardless of impact)	CCSF-UCSF Teaching Residency career.ucsf.edu/step-up-tea ching-residencies-usf  Research Vision & Strategy  Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years  There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10	Partnership career.ucsf.edu. VSFATE20 18  Funding Plan  Trainee can suggest specific funding	Mentors of	CCSF-UCSF Men career.ucsf.ed	N-UP toring Partnership u/NSFATE2018

OCPD Programs PAC-UP
Applying for faculty
positions
https://career.ucsf.edu/pac
up-events

PAC-UP

Preparing for an Academic Career C Developing an independent research progran

PAC-UP Getting feedback on your research state Giving a chalk talk for a faculty p

# Mapping our programs to ACRA qualifications

Recommendations

Enthusiastic and personalized

Letters from other respected

know the candidate well.

scientists who are well known by

the search committee AND who

MANAGE-UP

career.ucsf.edu/

ManageUp

and PhD advisors.

recommendations from both PD

Ability to

#### Serve a Diverse Pedagogical Teaching Qualification Student Population Experience Practices Trainee is familiar with the Trainee demonstrates the sensitivity. Trainee has been fully Level of training evidence supporting the use of respect for individuals of all responsible for organizing required (majority active learning strategies in the backgrounds, and the interpersonal institutions) and teaching a course. skills to interact with them. classroom. Trainee has been fully Trainee has immersed self in Trainee demonstrates that they can use Additional level of responsible for organizing a diverse community, or has active learning strategies effectively in training required the classroom, reflects on o and teaching a variety of mentored, advised or taught teaching effectiveness and use (more demanding courses with undergraduate diverse populations of iterative process to teaching to impositions) curriculum. students. students. STEP-UP Introduction to Pedagogy Course career.ucsf.edu/step-up-course (GRAD 302) OCPD STEP-UP STEP-UP TRAIN-UP Programs **USF-UCSF** CCSF-U SF Mentoring CCSF-UCSF Parti, rship Teaching Residency Teaching Residency career.ucsf.edu. ISFATE20 career.ucsf.edu/step-up-tea career.ucsf.edu/step-up-tea ching-residencies-usf ching-residencies-usf 18 Research Vision & Publications, Scholarship Funding Plan Qualification Strategy Trainee has produced first Level of training Research program is exciting with a author papers during required (majority clear direction and includes explicit, feasible steps to attain this direction institutions) postdoc and PhD Trainee can suggest over the first couple of years (regardless of impact) specific funding agencies and program Trainee has produced first Additional level of There is an interesting, broad, research names to fund proposed question that fills gaps in the field and author papers during training required provides direction for the next 5 to 10 postdoc and PhD, with at (more demanding research program. years. The question is broken down positions) least one paper contributing into smaller, feasible projects that use significantly to the field . appropriate methods. PAC-UP PAC-UP Preparing for an Academic Career ( Applying for faculty Developing an independent research program positions OCPD https://career.ucsf.edu/pac PAC-UP Getting feedback on your research state Programs up-events

#### Inclusion of Undergraduate Research Experiences in Research Plan

Research plan is specifically tailored to the institution's undergraduate and/or Master's population.

Trainee is able to propose projects of different calibers for different student populations.

#### Experience Conducting Research with Students

Trainee can articulate a scientific mentoring philosophy that meets the needs of the non-PhD student population served by this institution.

Trainee has experience conducting research with non-PhD students

#### TRAIN-UP

Introduction to Mentoring Course career.ucsf.edu/ TRAIN-UP-course

**TRAIN-UP CCSF-UCSF Mentoring Partnership** career.ucsf.edu/NSFATE2018

Mentors can use this language to provide specific feedback on how performance and behavior meet these success metrics, or don't.

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Giving a chalk talk for a faculty p

## Setting clear expectations is one of many inclusive practices for mentors

Mitigate bias in hiring/selecting

Set clear expectations

Evaluate progress systematically

Provide equitable access to resources and support

Provide regular, actionable feedback

Be transparent about rewards and consequences

Manage conflict (culture, values and behaviors)

Create an inclusive culture that takes into account work styles and learning styles, cultural backgrounds, lifestyle and responsibilities, cultural and social capital.

TRAIN-UP Series

Training Researchers and Interns

## Setting clear expectations is one of many inclusive practices for mentors

Mitigate bias in hiring/selecting

Set clear expectations

Evaluate progress systematically

Provide equitable access to resources and support

Provide regular, actionable feedback Be transparent about rewards and consequences

Manage conflict (culture, values and behaviors)

Create an inclusive culture that takes into account work styles and learning styles, cultural backgrounds, lifestyle and responsibilities, cultural and social capital.

Role

Is responsible for...

Career development\*

Psychological support\*

Is responsible for... Role\*\* Career development The traditional Psychological support mentor (advisor) Scientific knowledge The educator Technical skills (trainer) Critical and analytical thinking Identification of creative projects Performance The supervisor Behavior (manager) **Productivity** 

Role\*\*

Is responsible for...

When?

The traditional mentor (advisor)

Career development

Psychological support

When you are expected to support a mentee to attain their career goal or navigate professional challenges.

The educator (trainer)

Scientific knowledge

Technical skills

Critical and analytical thinking

Identification of creative projects

When your mentee is expected to learn new knowledge and skills for which you have expertise during their time with you, as part of an educational or training program.

The supervisor (manager)

Performance

Behavior

Productivity

When the performance, behavior and productivity of the mentee impacts your success or that of someone on your team, and you have the authority to hire, fire, pay, and recommend someone for promotion.

Role\*\*

The traditional mentor (advisor)

Is responsible for...

Career development

Psychological support

Examples of expectations

- "Engage with me in a specific type of way when seeking career development support
- Communicate your expectations and your needs to me in a particular way
- Follow through on my recommendations"

The educator (trainer)

Scientific knowledge

Technical skills

Critical and analytical thinking

Identification of creative projects

"Develop this expert-level scientific knowledge"

- Develop these higher order thinking skills
- Master these basic and these novel techniques
- Develop creative ideas to address important issues in our field"

The supervisor (manager)

Performance

Behavior

Productivity

"Perform at this quality standard and at this minimum productivity level

Engage in these behaviors, which support my mission and my goals for the lab

Manage projects independently and according to bioethical guidelines"

"As a mentor, my role is to help you achieve your career goals to the best of my capacity. For a position at a PUI, you will need to develop pedagogical practices - this not in my area of expertise at all. The OCPD offers these services - check them out and then tell me what you will need to do to get to these outcomes so we can discuss how to get you there. I can also connect you with a lab buddy who is at SFSU."

"The first step in developing a research vision is going to be for you to develop the ability to identify gaps in the field. What this means is that you will need to identify areas of research that have not been explored in our field, questions that may not have been asked yet or have not been fully answered. For example, (labmate name) is working on ..., which addresses an important question in our field: ... The first thing you will need to learn to do will be to review the literature and identify research questions."

"My goal is for you to produce enough data for X papers in your first Y years. This means that you will need to have completed A, B, and C experiments by December of next year. Let's talk together through what it will take to get these experiments completed in this time, and what you will need from me in terms of support."

#### Pedagogical Practices

Trainee is familiar with the evidence supporting the use of active learning strategies in the classroom.

Trainee demonstrates that they can use active learning strategies effectively in the classroom, reflects on own teaching effectiveness and uses an iterative process to teaching to improve curriculum.

#### Research Vision & Strategy

Research program is exciting with a clear direction and includes explicit, feasible steps to attain this direction over the first couple of years

There is an interesting, broad, research question that fills gaps in the field and provides direction for the next 5 to 10 years. The question is broken down into smaller, feasible projects that use appropriate methods.

#### Publications, Scholarship

Trainee has produced first author papers during postdoc and PhD (regardless of impact)

Trainee has produced first author papers during postdoc and PhD, with at least one paper contributing significantly to the field.

### Examples of expectations

- Advising/Mentoring:
- "Engage with me in a specific type of way when seeking career development support
- Communicate your expectations and your needs to me in a particular way
- Follow through on my recommendations"
- Training/Educating:
- "Develop this expert-level scientific knowledge
- Develop these higher order thinking skills
- Master these basic and these novel techniques
- Develop creative ideas to address important issues in our field"
- Supervising/i-lanaging:
- "Perform at this quality standard and at this minimum productivity level
- Engage in these behaviors, which support my mission and my goals for the lab
- Manage projects independently and according to

[No Title]

Is responsible for... Role Career development The traditional Psychological support mentor (advisor) Scientific knowledge The educator Technical skills (trainer) Critical and analytical thinking Identification of creative projects Performance The supervisor Behavior (manager) **Productivity** 

There are potential role conflicts between these roles.

Role

Is responsible for...

Career development
Psychological support

The educator (trainer)

Scientific knowledge

Technical skills

Critical and analytical thinking

Identification of creative projects

The supervisor (manager)

Performance

Behavior

Productivity

There are potential role conflicts between these roles.

Finish the Survey
Tell us more



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More on this program: mentoring.ucsf.edu