

## UCSF Anesthesia Pathway to Scientific Independence (PSI)

The department's PSI is a recently formalized program that undergirds our efforts to train and develop anesthesiologist researchers by providing a rigorous individualized training program. The PSI encompasses research trainees at multiple stages, including residents on the Research Scholars Track of the Anesthesia Residency, postdoctoral research fellows on our NIH-funded T32, and junior faculty members. PSI trainees receive mentored research training, protected research time, didactic training in relevant research topics, the opportunity to present their work regularly at departmental seminars and research days, and other resources that are necessary for their successful progression through the stages of training to research independence.

### **Research Scholar Track of the Anesthesia Residency**

The second major component of the PSI is our Research Scholar Track, which is approved by the ABA, RRC, and the UCSF Graduate Medical Education Committee. This pathway provides an accelerated training program for the aspiring physician-scientist. The four-year program is split between clinical and research training with protected, mentored research activity, and the program goals mirror the goals and structure of the T32 program.

### **Categorical Residency With CA3 Research**

This option follows the standard residency path but provides 6 months of protected research time during the CA3 year.



## For More Information

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## Postdoctoral Research Training Opportunities

NIH T32  
Pathway to Scientific Independence  
Research Scholar Track of the  
Anesthesia Residency  
Categorical Residency Research



## T32

## Anesthesia

## NIH Program

Since 1996, the department has received funding from the NIH to support an institutional training grant (National Research Service Award T32 GM08440) with the purpose of training postdoctoral scholars to conduct research in the broad areas encompassed by the discipline of Anesthesiology.

### Goals and Objectives

The primary goal of the program is to provide rigorous training in the fundamentals and techniques of conducting investigator-initiated research in areas of concern to clinical anesthesiologists and the larger practice of medicine. Training is offered in a broad range of clinically relevant areas, spans clinical, translational, and basic research, and includes hands-on research, coursework in grant writing, ethics, and other topics, and other support required to obtain the skills necessary for academic achievement. Courses and seminars are also available in specific research areas.

UCSF has an exceptional commitment to excellence and diversity. We encourage and welcome all qualified applications and particularly encourage applications from members of underrepresented groups in the sciences, including underrepresented minorities, veterans, and individuals with disabilities. UCSF offers reasonable accommodations for qualified individuals with

disabilities. If you are a person with a disability who would like to discuss potential accommodations or engage in a confidential conversation, contact Disability Management Services at 415-476-2621.

### Program Environment

Trainees will work directly with a faculty of experienced and renowned researchers, all of whom are independent investigators with a track record of mentoring. The mentoring faculty includes anesthesia faculty as well as faculty in other clinical and basic science departments engaged in research that is relevant to anesthesiology and the perioperative sciences.

### Appointment Structure

Trainees enter the program in one of two ways:

- In the latter years of the UCSF Research Scholar Track of the Anesthesia Residency.
- As non-ACGME fellows: This entry point is available to both internal and external candidates that have completed their resident training, as well as to exceptional candidates who hold PhDs.

### Fellowship Award

- The length of the fellowship is two to three years
- Monthly stipends are determined by the number of years of relevant postdoctoral experience
- Funding is provided for health insurance under a university-sponsored plan
- Annual allowances are included for travel and training-related expenses
- Stipends may be supplemented with departmental or host laboratory resources

### Program Structure

The program is structured around four integrated tracks:

- **Critical Care**
- **Genomics, Outcomes Research and Bioinformatics**
- **Neuroscience, Pain and Addiction**
- **Vascular Biology and Bioengineering**

Basic, translational and clinical research opportunities are available in each of these areas. Structured training in clinical research is offered by the UCSF Training in Clinical Research Program (TICR). It is also possible to obtain a Masters or higher degree in epidemiology.

Trainees will select a primary faculty research mentor, and will work intensively with their primary mentor. They will also have access to and direct mentoring and guidance from numerous other investigators with deep scientific expertise complementary to that of their primary mentor.

### Fellow Requirements

Candidates must be citizens or non-citizen nationals of the United States, or have been lawfully admitted for permanent residence (in possession of a valid Alien Registration Receipt Card, or "green card") at the time of appointment.

Candidates must have received a PhD, DVM, DDS, MD, or comparable doctoral degree from an accredited domestic or foreign institution.

Applicants are required to submit a completed application form, a CV and three reference letters.

Trainees will be expected to commit full time to the research training (at least 40 hours per week).

Trainees must attend research seminars and symposia presented by the training program, and meet regularly with their mentors, the program director, and the appropriate research track coordinator. Attendance at UCSF courses in biostatistics and the responsible conduct of research is required.

Trainees are expected to have written at least one scientific article as first author, and one competitive research grant application by the completion of the training. They are also required to prepare annual progress reports.

