

# CAR R

CENTER for ADVANCED RESEARCH TRAINING & INNOVATION

## **Basic Science Research Training Track Information Session**

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Basic Science Research Training Track Leader



#### **CARTI Basic Science Research Training Tracks**



**Mission:** To increase the pool of basic scientists engaged in evidence-based research



**Format: 6**-month foundational training in developing and executing a mentored basic science research project



**Eligibility:** Be a senior fellow (MD, PhD, MD/PhD) or faculty member in an early-stage of their research career with some prior research experience, a mentor, and 20% protected time

#### **Orientation (1 day)**

**Didactic Instruction & Writing Instruction (2 months)** 

**Grant Writing Instruction (2 month)** 

Experiential Learning & CARTI Writing Accountability groups (2 months)

Capstone Grant Application & Mock Study Section (3 month)

### Timeline

	2024						2025	
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Application deadline	07/26							
Selection of scholars								
Orientation & completion of individual development plan								
Didactic & grant writing instruction								
Experiential learning & writing accountability groups								
Capstone Grant Application & Mock Study Section								



### **Eligibility Criteria**

- Be a senior postdoctoral fellow (MD, PhD, MD/PhD) or faculty member in an early stage of their research career at the University of Maryland, Baltimore with some prior research experience.
- Have a research mentor(s)\* and existing basic science research project to serve as the basis for a grant application.
- Have a letter of support from your Department Chair guaranteeing at least 20% protected time (8 hours/week) to conduct training and research over a 6month period.
- Have NOT served as a Principal Investigator on an NIH or federally funded research (R) or career development (K series) award, except those holding a K99/R00 award. Postdoctoral fellows awarded a K99 are still eligible to apply.



## Didactic Instruction & Scientific Communication Intensive

- Length of time: 2 months
- Time commitment: 8 hours/week
- Format:
  - Combination of synchronous, in person and zoom

## Basic Science Research Training Track Didactic Content

## Project Design & Implementation

Balancing Innovation & Feasibility

Rigor & Reproducibility

Writing an IACUC
Protocol

Data Management & Sharing

Introduction to Coding

#### **Scientific Communication**

Writing & Publishing a Manuscript

Critically Reviewing a Manuscript

Responding to Reviewers
Critiques

Developing an Elevator Pitch

## Transition to Independence

Negotiating a Start-Up
Package

Staffing Your Lab

Developing Mentoring Skills

**Conflict Resolution** 

Building Effective Collaborations

Identifying Mentors & Sponsors



### **Experiential Learning**

- Length of time: at least 2 months
- Time commitment: 8 hours/week
- Format:
  - CARTI scholar works with mentor on finalizing a research protocol and/or beginning to execute a basic science research project
  - Participate in CARTI writing accountability groups



## Grant writing instruction and capstone grant application

- Length of time: 3months
- Time commitment: 8 hours/week
- Activities
  - Instruction on writing an NIH grant proposal
  - Write and present a grant proposal
  - Mock study section

### **Application Process**

- Application due date: Friday, July 26th by 5:00pm EST
- Required material:
  - 1. Cover page
  - 2. UMSOM curriculum vitae (CV)
  - 3. Personal statement (1-2 page(s))
  - Preliminary summary of proposed research project to be completed during experiential learning component (1 page)
  - 5. Letter of support from research mentor
  - 6. Letter of support from the Departmental Chair



### **Scholar Expectations**

- Complete each element of the training schedule
- Complete individual development plan (IDP)
- Submit a grant application within 6 months of participation of the training track

## THE KLARMAN FAMILY FOUNDATION

## **Scholar Target Grant Opportunities**

- Alfred P. Sloan Foundation
- NARSAD (Brain and Behavior research Foundation)
- McKnight Foundation
- Klarman Family Foundation
- NIH Exploratory/Developmental Research Grant Program (R21)
- Transition to independence award (K99/R00)
- NIH Research Project Grant (R01)











## CARTI Basic Science Research Training Track Contacts

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