

Mid-Career Advancement Program 22-603

- Biological Sciences
- Geosciences
- Social, Behavioral and Economic Sciences
- STEM Education
- Technology, Innovation and Partnerships

Virtual Office Hour: Jan 8th, 2025

Mid-Career Advancement (MCA) Program – 22-603

NSF participation: BIO (all), GEO (all), SBE, EDU, TIP, ... not MPS, CISE, or ENG

FAQs: see NSF 23-022

- Who: Scientists and engineers at the Associate Professor rank (or equivalent) with at least 3 years at that rank
 - PUI Track in BIO and GEO extends eligibility to Full Professors at Primarily Undergraduate Institutions only
- What: An opportunity to substantively enhance and advance the Pl's research program and career trajectory through synergistic and mutually beneficial mentored partnerships [provides time (6.5 months), training, and \$100K for research]

Target submission window: 1st February - 3rd March 2025

MCA addresses specific challenges at mid-career stage, distinct from first establishing a research identity



Recruitment & Support for Beginning Investigators: REUs, GRFP, PRFB, CAREER

- Fresh out of PhD/postdoc training
- Startup \$ for research
- More equal gender/racial distribution



Retention and Advancement - Mid-Career Investigators MCA

- Time to refresh/retool (> 6 yrs since postdoc training)
- Increased service (little time or \$ for research)
- Skewed gender/racial distribution

Mid-Career Advancement Program (22-603)

• **Primary Objective:** To ensure scientists and engineers remain engaged and active in cutting-edge research at a critical career stage that is replete with constraints on time that can impinge on research productivity, with consequences for retention and career advancement.

Mid-Career Advancement Program (22-603)

Distinctive aspects:

a) the only cross-directorate NSF program targeted at the mid-career stage,

b) provides protected time > 2 months per summer, and resources to work closely with a Partner(s)*,

c) supports developing a strategy for career advancement not otherwise likely to occur.

MCA PI Spotlight



Emily Lemmon Florida State University Dept of Biology BIO Directorate The MCA award enabled me to make a **life-shift** at a time in my career when I was weighed down by academic and other responsibilities.

I have now **re-trained** in a new field, built **new collaborations**, caught up my research again to the cutting edge of my field, and submitted a **new grant proposal** that builds off my data from the MCA.

I will always be grateful to NSF for having the confidence that mid-career academics still have **great ideas** to contribute to science.



Motivation for the MCA Program:









Broadening Participation

Convergent Research

Workforce Development

Fostering Innovation



Motivation: Broadening Participation

Women's representation decreases as academic rank increases



Motivation: cross-disciplinary innovation and training









Broadening Participation

Convergent Research

Workforce Development

Fostering Innovation

MCA PI Spotlight



Arash Esmaili Zaghi University of Connecticut Dept of Civil and Environmental Engineering EDU Directorate The **MCA** has been **transformative** for both my research and career.

It empowered me to explore unconventional, **high-impact ideas** at the intersection of Al, neurodiversity, and education areas where my ADHD brain thrives.

This award legitimized my transdisciplinary work, opening doors to **bold research** that challenges established paradigms and drives innovation.

Key Point: make your case in the Project Description and Impact Statement

The PI must demonstrate that their research program could substantively benefit from the protected time and resources provided by this program, such that there is a substantial enhancement to their research, opportunities and trajectory. The proposed activities will enable scientific and academic advancement in ways *not likely to be available without such support*.





Protected Time (salary): Up to a total of 6.5 months of salary (plus fringe) over the course of the 3-yr grant, *not yearly*.

Resources (direct costs): \$100,000.00 in support of the research advancement and training plan, can include travel.

Partner: Up to 1 month of summer salary (total, not yearly), or other reasonable costs, for <u>each</u> partner.

MCA Impact Statement – separate 2 pgs, uploaded as Supplementary Documentation

- Information on past or current constraints to PI's time and resources available for carrying out research;
- The impact of an MCA award on the Pl's research and career trajectory, and, if relevant, address more far-reaching impacts including those on the Pl's discipline, department, and/or institution.

PUI Track for PIs at PUIs whose research is funded by:





Geosciences

PI eligibility has been extended to Full Professors only at Primarily Undergraduate Institutions

MCA Participation in FY25

Oirectorate for Biological Sciences

Division of Environmental Biology Division of Molecular and Cellular Biosciences Division of Biological Infrastructure Division of Integrative Organismal Systems

Directorate for Geosciences

Division of Atmospheric and Geospace Sciences Division of Earth Sciences Division of Ocean Sciences Office of Polar Programs

Directorate for Social, Behavioral and Economic Sciences

SBE Office of Multidisciplinary Activities Division of Behavioral and Cognitive Sciences Division of Social and Economic Sciences

Division of Undergraduate Education Division of Equity for Excellence in STEM

Directorate for STEM Education

Division of Graduate Education

Research on Learning in Formal and Informal Settings

Office of Integrative Activities

Submit using solicitation 22-603 on the Cover Page, and choose a participating program (e.g., Division of Molecular and Cellular Biosciences)

- 1) Title must begin with "MCA: " or "MCA Pilot PUI: "
- 2) In addition to PAPPG requirements (Intellectual Merit and Broader Impacts), proposals must include the following sections:
 - Section 1: Candidate's Past Research
 - Section 2: Candidate's Proposed Research Advancement and Training Plan
 - Section 3: Candidate's Long-Term Career Plans
- 3) References Cited
- 4) Biographical Sketches for the PI <u>and</u> for each Partner (uploaded as Supplementary Docs)
- 5) Additional Supplementary Documentation
 - Impact Statement (2 pages)
 - Letter(s) of Collaboration (written by the Partner)
 - Departmental Letter



Leslie Rissler Jennifer Weller



Melissa Coleman



MCA Program Officers



Kathleen Ehm



Rachel Teasdale



Tarini Bedi **OIA/RCC**



Casonya Johnson

For questions, email mca.info@nsf.gov

