2027 Artificial Intelligence and Technology Collaboratory (AITC)

Annual National Research Award Competition

Letter of Intent (LOI) Informational Webinar

November 3, 2026

Thomas Gill, MD | Mary Geda, MSN, RN

AITCC Research and Consulting Team, Yale University

The AITC Program is funded by the National Institute on Aging (NIA), part of NIH, under award numbers U24AG103119, P30AG073104, P30AG073107, P30AG102665, P30AG102673, and P30AG103094.

Agenda

01

AITC Program and RFA Overview

Thomas Gill, MD, and Mary Geda, MSN, RN, AITCC Research and Consulting Team

02

Research Priorities from the Five AITCs

MassAITC, Johns Hopkins AITC, Duke AITC-AIGE, APEX-ADRD (UCLA), Stanford AITC

03

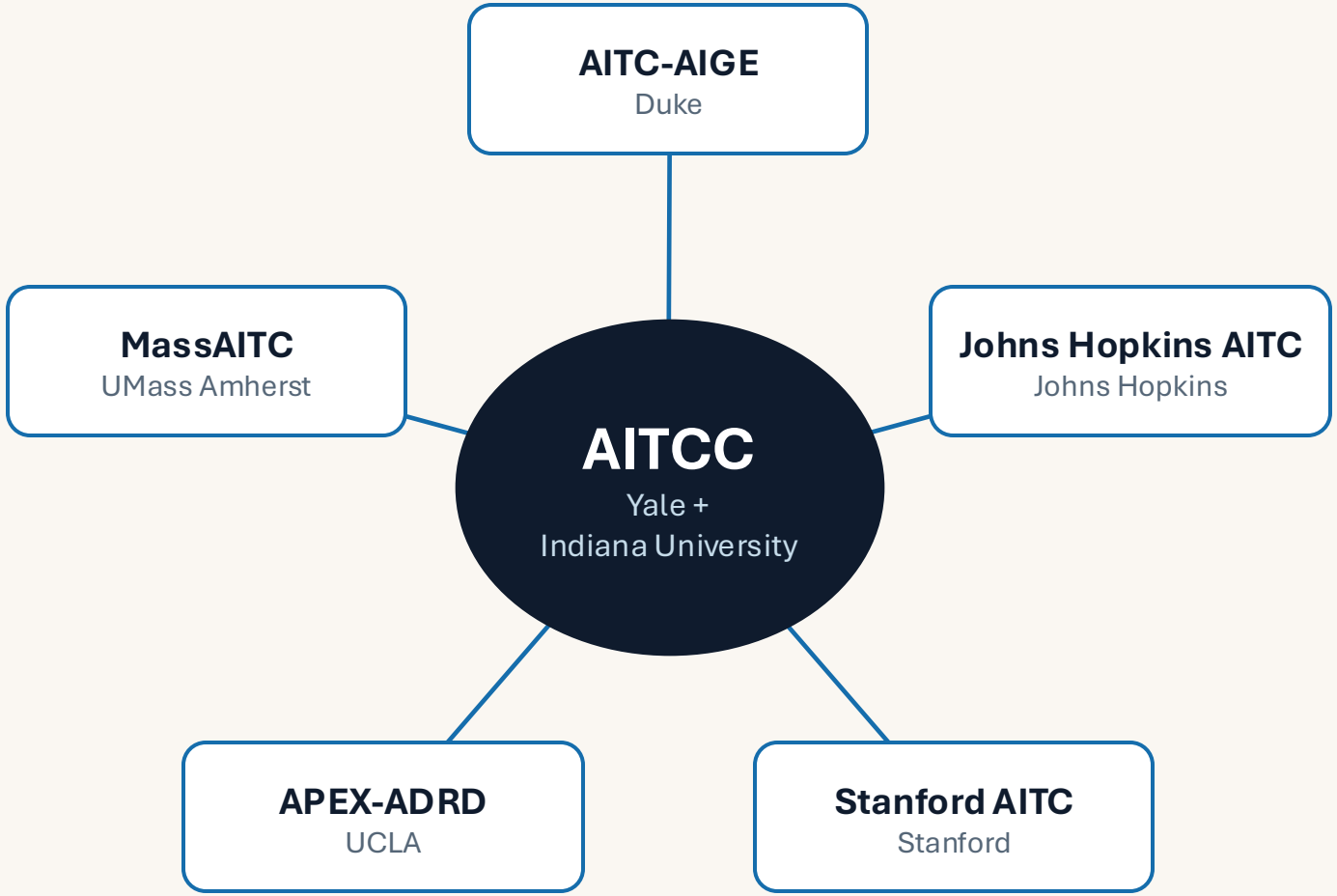
Q&A Panel

AITCC, AITC leadership, and NIA Program Officer, Joseph Chiarenzelli

How to participate

- Submit questions in the Q&A box at any time. We'll answer as many as possible during the Q&A panel at the end.
- Check the chat for links to AITC resources.
- This webinar is recorded and will be posted at aitcc.ai.

The AITC Program



Who does what

Five AITCs (P30 centers)

Set research priorities, review LOIs and applications, select projects, and fund and oversee awardees.

AITCC (U24 coordinating center)

Runs one shared RFA, timeline, and Grant Platform for all five centers.

NIA

Approves every project before an award is made.

What the Competition Funds

Artificial Intelligence (AI) and technology that improve the health and well-being of older adults, including people living with Alzheimer's Disease/Alzheimer's Disease-Related Dementias (AD/ADRD) and their caregivers.

1 Develop

A new AI-enabled tool or technology

2 Adapt

Adapt, integrate, or strengthen an existing technology for a new aging or AD/ADRD use

3 Evaluate

Test feasibility, usability, effectiveness, safety, or implementation with older adults, caregivers, clinicians, or health systems

All NIA scientific areas are eligible

Aging Biology • *Behavioral and Social Research* • *Geriatrics and Clinical Gerontology* • *Neuroscience*

80%+ of research funds go to AD/ADRD projects

Two Award Types

Non-Clinical Trial

$200K
direct costs, max

6-24 mo.
project period, max

~ 60
awards across all AITCs

- Does not meet the NIH clinical trial definition
- Includes computational, data, and device development work
- Includes human subjects research such as usability and feasibility testing

Clinical Trial

$300K
direct costs, max

6-24 mo.
project period, max

Up to 5
awards (1 per AITC)

- Meets the NIH clinical trial definition
- Requires a data and safety monitoring plan, ClinicalTrials.gov registration, and progress and safety reporting
- State FDA IDE or IND status in the LOI, if needed

Both types: Indirect costs at your negotiated F&A rate, or 10% de minimis if none. Funded through your selected AITC

Who Can Apply

Eligible: U.S. organizations

- Colleges, universities, and medical or nursing schools
- Health care systems and nonprofits
- For-profit companies, including small businesses and startups
- State, local, and tribal governments and eligible federal entities

No AITC affiliation needed. Applicants at an AITC's own institution may apply to that AITC.

Not eligible

- Non-U.S. organizations or non-U.S. components of U.S. organizations; subawards to foreign organizations
- Projects focused only on market research (user testing is allowed)
- Drug discovery, development, or target identification, except bioinformatics-based approaches
- Incremental work on technologies already funded by NIH SBIR or STTR
- The same or overlapping project submitted to more than one AITC
- Overlap with work already funded by an AITC, including prior a2 pilot awards

How the Competition Works

More than one LOI is allowed if each describes a distinct project.

Your AITC choice is final. It cannot be changed after you submit the LOI.

1

Submit LOI

Submitted on the Grant Platform. Select one AITC.

Nov 16, 2026

a

Review

Fit and responsiveness.

Nov to Dec

b

Invitations sent

Instructions and templates provided.

Dec 15, 2026

2

Full application

Submitted on the Grant Platform.

Jan 22, 2027

a

Scientific review

AITC reviewers use shared criteria.

Winter 2027

b

NIA approval and award

AITC recommends finalists to NIA.

Spring 2027



What is included in your LOI

Project statement 2 pages, NIH format; bibliography not counted

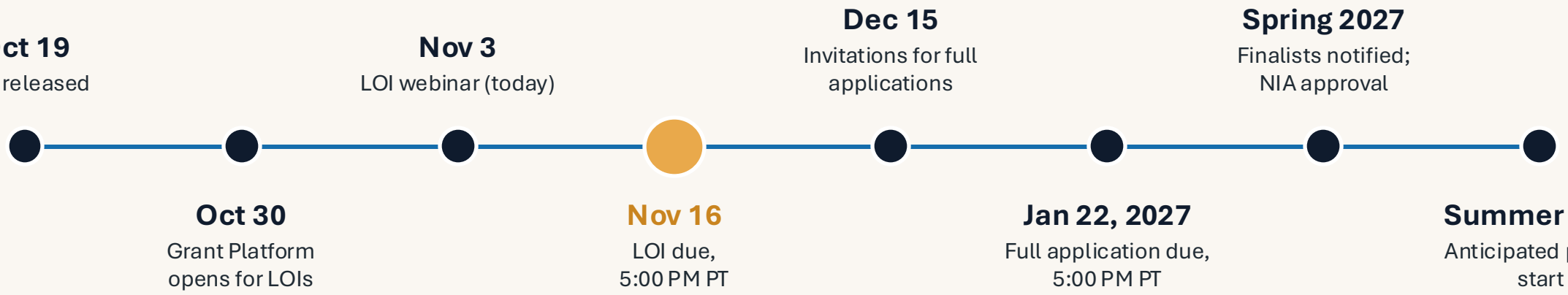
- Problem and relevance to aging or AD/ADRD
- AI or technology approach and its Technology Readiness Level
- Aims and expected outcomes
- Path to translation: commercialization, adoption, or follow-on funding

Grant Platform fields

- PI and organization
- Project title, focus, and award type
- Primary AITC (one only, final)
- Estimated direct costs and duration
- Key personnel, with NIH biosketch or CV
- Human subjects and participant recruitment
- Other funding or overlap disclosures
- Eligibility confirmation

AITCs screen for: eligibility and responsiveness • fit with AITC priorities • relevance to aging or AD/ADRD • AI or technology as a core component • approach • significance and innovation • feasibility within budget and period

Key Dates



LOIs are due Monday, November 16, 2026, 5:00 PM PT. Register on the Grant Platform early.

Choosing Your Primary AITC

Same rules, budgets, deadlines, and review criteria at all five. Choose the center whose priorities and resources best fit your project. Unsure? Email the AITC before you submit.

1

MassAITC
UMass Amherst

Devices, sensors, and AI for aging and AD/ADRD outside the clinic

massaitc@umass.edu

2

Johns Hopkins AITC
Johns Hopkins University

AI and technology for aging well

awiker@jhu.edu

3

Duke AITC-AIGE
Duke University

Trustworthy AI: reliability, safety, and real-world readiness

aitc@duke.edu

4

APEX-ADRD
UCLA

Rapid, rigorous, real-world evaluation of AI and technology

apexadrd@mednet.ucla.edu

5

Stanford AITC
Stanford University

The right intervention, for the right person, at the right moment — from the lab bench to the living room.

suaitc-admin@stanford.edu

You do NOT need to be affiliated with the specific AITC to apply.



MassAITC
Massachusetts AI and Technology Center
for Connected Care in Aging & Alzheimer's Disease

Research Focus and Funding Opportunities

Admin Team Members



Benjamin Marlin, PhD
Center Director



Deepak Ganesan, PhD
Center Director



Sudeshna Das, PhD
Center Director



David Paquette, PhD
Executive Director



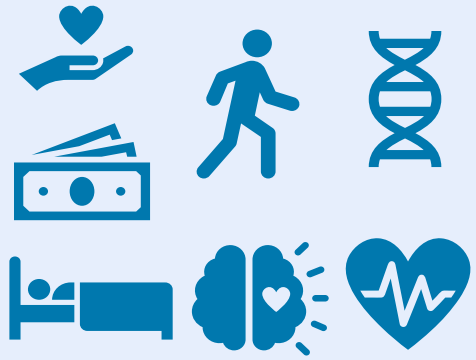
Suzanne Rataj, MPH
Administrative Manager

Theme/Focus

Technology



Health & Wellbeing



Setting



MassAITC
Massachusetts AI and Technology Center
for Connected Care in Aging & Alzheimer's Disease

Applicant Resources & Contact Information

Resources

- **IALS Gait & Mobility Core**
- **IALS Sleep Research Core**
- **IALS mHealth Software Core**
- **UMass CDSAI DataCore**
- **MassADRC Patient Cohorts**
- **MassAITC AI Ethics Consulting**

Contact Information



David Paquette, PhD
Executive Director

massaitc@umass.edu

https://massaitc.org

MassAITC Applicant Webinar

November 4, 2026
4:00-5:00pm ET
https://tinyurl.com/MassAITC-2027-LOI-Webinar

Johns Hopkins (JH) AITC

Scientific Focus: AI and Technology for Aging Well

Advancing AI and technology to help people age well by improving health, independence, and quality of life, supporting caregivers, and translating discoveries in aging into practical solutions.

2026 Priority Areas

- Health, Function, and Well-Being
- Independence, Daily Living, and Caregiving
- Clinical Care, Decision Support, and Care Delivery
- Aging Biology and Translational Discovery
- Trustworthy AI technologies, agentic AI, embodied AI and foundational models.

Projects may span multiple areas.

Resources Available to Awardees

- Clinical consultation and collaboration
- Engineering and data science consultation
- Access to a registry of 600 older adults to support recruitment and testing.

Learn More

https://aitc.jhu.edu/

awiker@jhu.edu

JH AITC-webinar for applicants
November 9, 2026, 11:30am-12:30pm (ET)
Register here:
https://jhjhm.zoom.us/meeting/register/3O7Y8djxS5G_YPb4wE3RNg

Shared scientific leadership

Aging biology and resilience



Peter M. Abadir
M.D.
Co-Principal Investigator

AI and computer vision



Rama Chellappa
PhD
Co-Principal Investigator

Genomics and machine learning



Alexis Battle
PhD
Co-Principal Investigator

Innovation and commercialization



Phillip Phan
PhD
Co-Principal Investigator

Duke AITC-AIGE
Research Focus and Funding Opportunities

AITC-AIGE
Duke Artificial Intelligence and Technology Collaboratory for Aging: Governance and Evaluation

Principal Investigators (PIs)



Juliessa Pavon, MD
Aging, Dementia Care, Clinical AI, Informatics

Administrative Core



Sheng Luo, PhD
Biostatistics, AI Methods, Longitudinal Data Science

Research Innovation Core



Rishi Kamaleswaran, PhD
Computer Science, AI/ML model infrastructure, clinical big data

Clinical Implementation & Data Science Core

Theme/Focus

Trustworthy AI

Focus Areas

AI performance, reliability, and failure analysis
Evaluating AI tools, foundation models, and clinical decision support for robustness, validation, and failure analysis

Trustworthy AI across the deployment lifecycle
Governance, auditing, fairness, safety, explainability, human oversight, and post-deployment monitoring.

Methods for complex aging data
AI and statistical methods for multimodal and longitudinal data to advance prediction, diagnosis, and intervention.

Validation, harmonization, and transportability
Cross-cohort validation, data harmonization, and transfer learning to improve generalizability across populations, settings

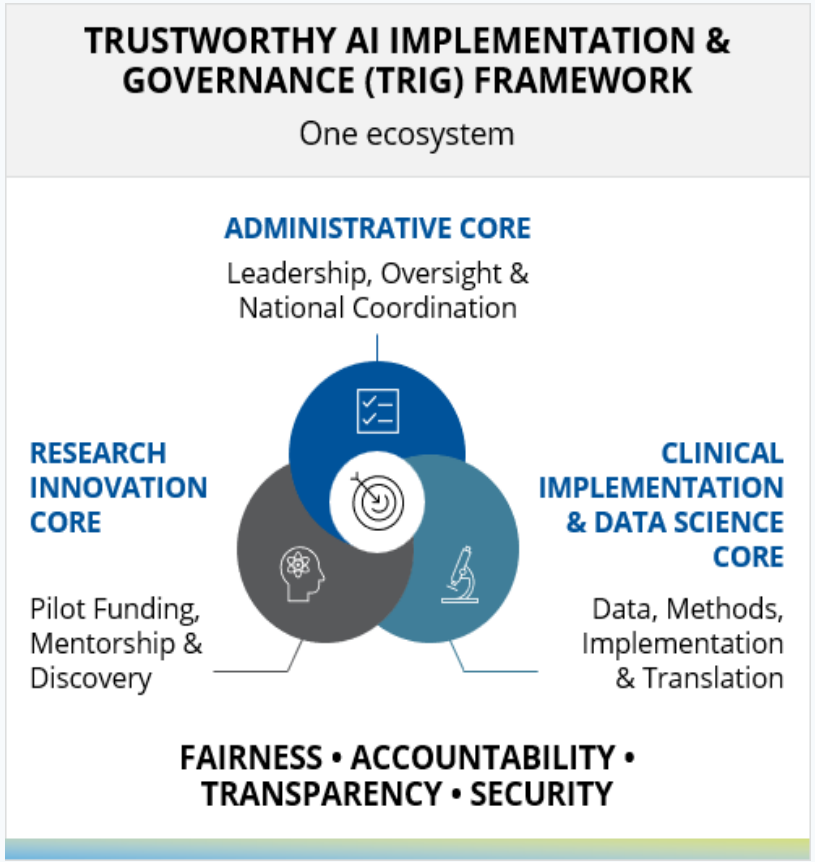
Real-world implementation and continuous learning
Implementation and evaluation of AI in clinical, home, community, and long-term care, including workflow integration and human–AI collaboration.

Duke AITC-AIGE
Applicant Resources & Contact Information

AITC-AIGE
Duke Artificial Intelligence and Technology Collaboratory for Aging: Governance and Evaluation

Resources Available to Awardees

- Expert consultation and mentorship in aging, AD/ADRD, AI, biostatistics, informatics, and implementation science, including community partners.
- Advanced AI evaluation methods: fairness, subgroup analysis, robustness testing, external validation, and performance monitoring.
- Frameworks, informatic pipelines, and support for multimodal and longitudinal data science, including harmonization and validation.
- Guidance on stakeholder engagement, workflow integration, implementation planning, governance, and post-deployment monitoring.



Applicant Webinar

Tuesday, November 10, 2026
1:00-2:00pm ET

Learn More

aitc.duke.edu | aitc@duke.edu

APEX-ADRD Collaboratory (UCLA)
Research Focus and Funding Opportunities

UCLA Health

Principal Investigators	**John N. Mafi, MD, MPH** (Contact PI) **Joann G. Elmore, MD, MPH** (MPI) • **Alex A. T. Bui, PhD** (MPI)
Theme/Focus	Rapid, rigorous, real-world evaluation of AI and technology for aging and ADRD. A national resource: teams anywhere in the U.S. may apply. **Five priority areas:** 1. **Real-world trials of AI and technology,** including secondary analyses of completed trials: effectiveness, safety, fairness, and cost. 2. **Model development and validation** across settings, EHR vendors, and subgroups, including large language models. 3. **Neurotechnology, wearables, and sensing:** brain stimulation, digital biomarkers, remote monitoring, caregiver support. 4. **AI for the biology of aging and ADRD:** multi-omics, neuroimaging, and biomarker data; mechanisms and aging clocks. 5. **Safe and fair use after deployment:** monitoring deployed AI for drift, safety, fairness, and impact in real-world care.

APEX-ADRD Collaboratory (UCLA)
Applicant Resources and Contact Information

UCLA Health

What applicants and awardees receive

- **Before you apply:** design studios, office hours, and webinars; email us to discuss fit.
- **No-cost consultation:** study design, biostatistics, causal inference, health economics, fairness.
- **Data guidance:** identifying datasets (for example, NIA LINKAGE) and arranging access.
- **Start-up support for funded pilots:** single IRB, data use agreements, protocols, ClinicalTrials.gov.
- **Rapid pragmatic trials:** INOVAi's ambient AI scribe RCT (238 physicians) conducted in 2 months.

Applicant Webinar

Monday, November 9, 2026
4:30 to 5:30 PM ET | 1:30 to 2:30 PM PT

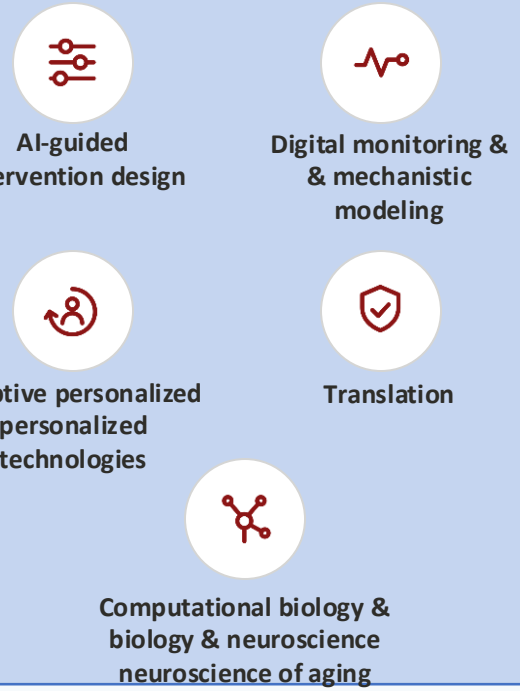
Contact

John N. Mafi, MD, MPH, Contact PI
apexadrd@mednet.ucla.edu
https://apexadrd.healthsciences.ucla.edu/

Scan for our website

Stanford AITC
Research Focus and Funding Opportunities

Principal Investigators (PIs)	 **Ehsan Adeli, PhD** Contact PI *Co-Director*	 **F. Vankee Lin, PhD, RN** MPI *Co-Director*	 **James Landay, PhD** MPI *Co-Director*
Theme/Focus	**Theme:** Many technologies have been developed for older adults, but we still lack evidence about which technologies improve intervention decisions, for whom, and under what real-world conditions. SU-AITC addresses this gap by connecting AI and technology development with precision intervention science, rigorous evaluation, and real-world use. **Our Focus:** SU-AITC advances AI- and technology-enabled, precision health–driven interventions for aging and Alzheimer's disease and related dementias (AD/ADRD).		



Stanford AITC
Applicant Resources and Contact Information

Register for the SU-AITC Applicant Webinar to learn more – Wed, Nov 4th, 12-1 PM ET / 9-10 AM PT
https://stanford.zoom.us/webinar/register/WN_NdMNoUOySXOqNUtmyViW9A

Applicant Resources

- Monthly webinars on precision interventions and AI/technology
- Annual methods workshop on precision intervention research and AI/technology for aging
- "Speed Networking" events to connect collaborators and form research teams
- SU-AITC researcher database to support collaboration

Visit the Resources page on our website for additional and up-to-date information.

Scan for our website

Contact Information

- Email: suaitc-admin@stanford.edu
- Website: https://suaitc.stanford.edu/

Q&A

Type your question in the Q&A box.

Resources

FAQs
aitcc.ai/faq

AITC Webinars
aitcc.ai/events

RFA
aitcc.ai/rfa/aitc-ara-27-001

Grant Platform
https://grants.aitcc.ai/opportunities/AITC-ARA-27-001

Coming Up Next

AITC Webinars

Stanford AITC applicant webinar

Wed, Nov 4
12:00 to 1:00 PM ET | 9:00 to 10:00 AM PT

MassAITC applicant webinar

Wed, Nov 4
4:00 to 5:00 PM ET | 1:00 to 2:00 PM PT

Johns Hopkins AITC applicant webinar

Mon, Nov 9
11:30 AM to 12:30 PM ET | 8:30 to 9:30 AM PT

APEX-ADRD Collaboratory (UCLA) applicant webinar

Mon, Nov 9
4:30 to 5:30 PM ET | 1:30 to 2:30 PM PT

Duke AITC-AIGE applicant webinar

Tues, Nov 10
1:00 to 2:00 PM ET | 10:00 to 11:00 AM PT



THANK YOU

We look forward to receiving your LOI.

