AIM-AHEAD Bridge2AI AI-READI Training Program

Cohort 2

Informational Webinar

September 08, 2025, 2:00pm Central

AIM-AHEAD Coordinating Center is funded by NIH, Agreement No.: 1OT2OD032581

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AIM-AHEAD Consortium

AIM-AHEAD is a nationwide network of institutions and organizations designed to build AI talent among researchers and clinicians, support multidisciplinary research projects that harness AI/ML to improve the health of Americans, and enhance the AI capabilities and infrastructure of communities or hospitals that otherwise would not have had the resources or the capacity to benefit from the advancement of AI/ML.

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The AIM-AHEAD Coordinating Center

The A-CC consists of four cores, focused on various initiatives to achieve AIM-AHEAD's mission.

Leadership Core

Lead, recruit, and coordinate the AIM-AHEAD Consortium

Data Science Training Core

Assess, develop, and implement data science training curriculum

Data and Research Core

Address research priorities and needs to form a comprehensive basis for AI/ML

Infrastructure Core

Assess data, computing, and software infrastructure to facilitate AI/ML and health research

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NIH Leadership Team

Samson Gebreab, Ph.D. MSc.
Program Lead, AIM-AHEAD
Office of Data Science Strategy,
NIH

Shurjo K. Sen, Ph.D.
Program Director, Bridge2AI
Office of Genomic Data Science,
NIH

Haluk Resat Ph.D.
Program Lead, Bridge2AI
Office of Strategic Coordination
NIH

Dr. Emir Khatipov
Program Director, AIM-AHEAD
Office of Data Science Strategy,
NIH

Eva Lancaster, Ph.D.
Program Director, AIM-AHEAD
Office of Data Science Strategy,
NIH

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Program Leads

Jamboor Vishwanatha, PhD
UNT Health Science Center
AIM-AHEAD PI

Toufeeq A. Syed, PhD
University of Texas Health Science Center,
Houston, TX
AIM-AHEAD MPI

Gordon Gao, PhD
Johns Hopkins University
AIM-AHEAD DSTC MPI

Sally Baxter, MD, MSc
UC San Diego
AI-READI MPI

Linda Zangwill, PhD
UC San Diego
AI-READI MPI

Damaris Javier, PhD
UNT Health Science Center
Program Co-Director

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Program Partnership

Partnership

- **Strategic Collaboration:** AIM-AHEAD and Bridge2AI are working together to provide specialized AI/ML training using shared resources and expertise.
- **Combined Expertise:** AIM-AHEAD's strength in trainee engagement and Bridge2AI's AI data and curriculum deliver a comprehensive training experience.
- **Focus on Training:** The partnership emphasizes hands-on experience with real-world biomedical data and AI/ML tools.
- **Goal:** Build a skilled workforce prepared to advance AI/ML applications in health research.

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Program Purpose

The Bridge2AI AI-READI Training Program engages AIM-AHEAD trainees in hands-on use of the AI-READI dataset and Fairhub.io platform. The program expands access to AI-READI data through training in AI/ML methods, responsible research practices, and a train-the-trainer model. Trainees will apply their learning to conduct novel research, leveraging a multi-modal array of data elements to develop research projects using real-world data.

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BRIDGE2AI

Data
Broad, FAIR, AI-Ready

Ethics
Accurate, Reliable, Ethically Sourced

People
Varied teams & research cohorts, Training

BRIDGE2AI

NIH National Institutes of Health
Office of Strategic Coordination–The Common Fund

NIH National Human Genome Research Institute

NIH/NHGRI and NIH/CF Awards

Generate new data & best practices to **propel modern AI/ML models** toward scientific pioneering, advance **a new culture of ethical consideration** around the data, and create a **modernized workforce** that is skilled in this new method of scientific data creation.

M. Munoz-Torres.

University of Colorado
Anschutz Medical Campus

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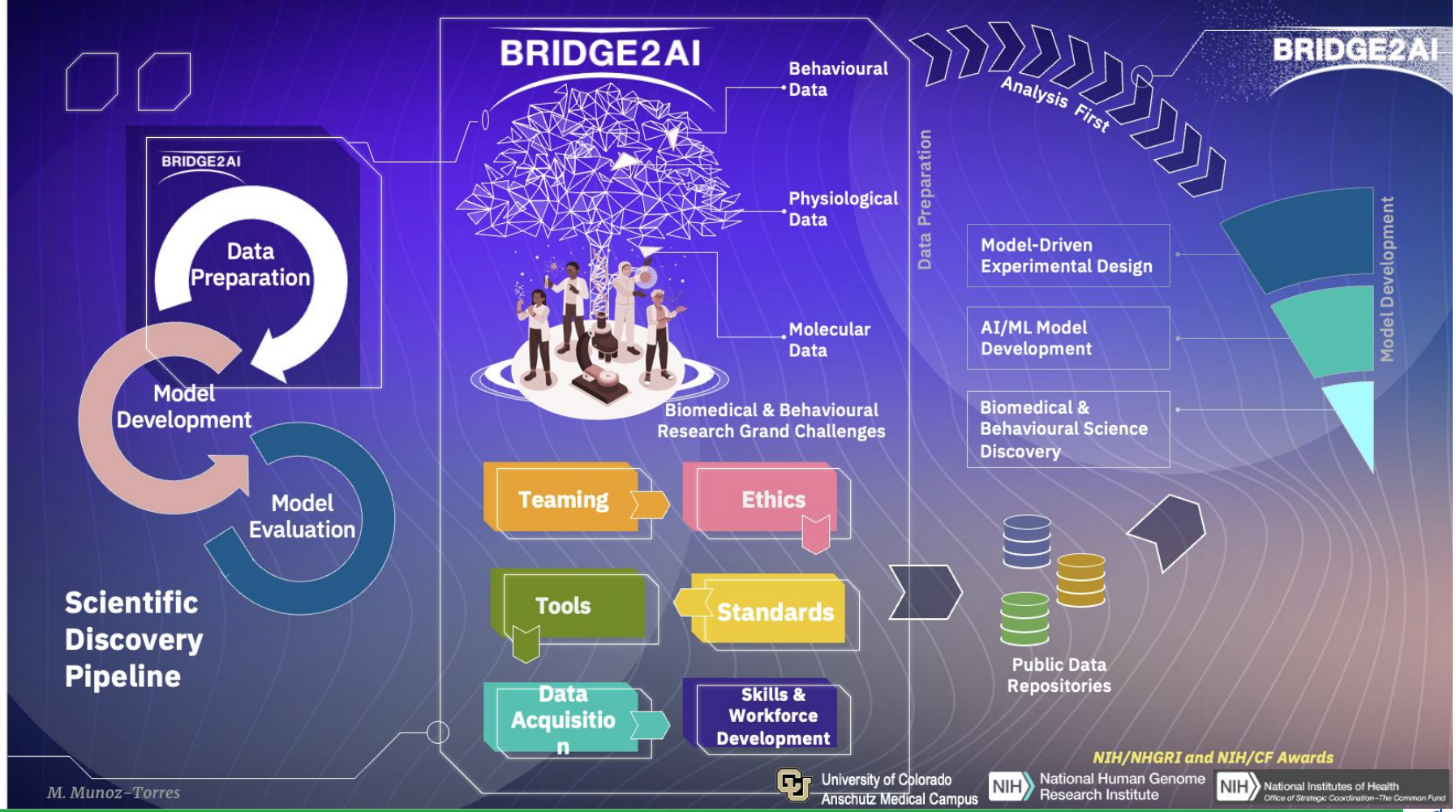
AIM AHEAD



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Data Generation Projects

BRIDGE2AI

Data Generation Project	Data Types
Functional Genomics (CM4AI) Mapping cell architecture, interpreting cell function/structure in health & disease	Cell maps, immunofluorescence, spectrometry (AP-MS), evidence (metadata)
Voice As a biomarker of health: development, respiratory & sleep disorders, mental health, etc.	WGS, tomography (CT), magnetic resonance, X-Rays, voice, consent, surveys, demographics, vital signs
Salutogenesis (AI-READi) Restoring health after disease	WGS, tomography (OCT), ophthalmic imaging, clinic & labs, surveys (SDoH, diet, MoCA), glucose, activity, HR, SpO2, EKG, AirQI
Critical Care (CHoRUS) ICU diagnosis & risk prediction	Labs, treatments, telemetry, EEG, non-medical factors, practice metadata

M. Munoz-Torres.

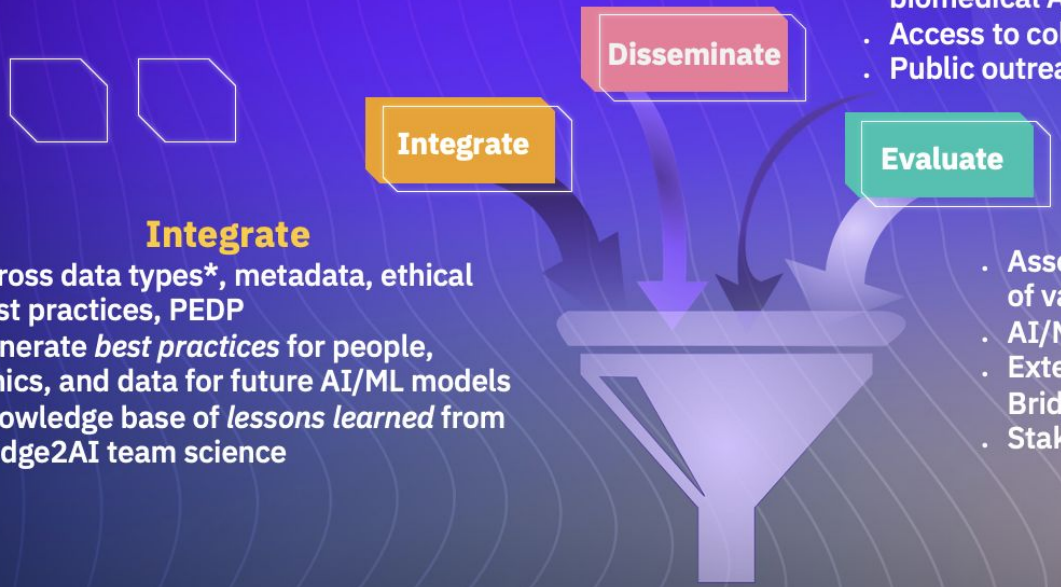
NIH/CF Awards

University of Colorado Anschutz Medical Campus

NIH National Institutes of Health
Office of Strategic Coordination–The Common Fund

BRIDGE2AI

Bridge Center



Disseminate

- Consensus guidelines for the broader biomedical AI community
- Access to collected datasets
- Public outreach and stance on difficult issues

Integrate

- Across data types*, metadata, ethical best practices, PEDP
- Generate *best practices* for people, ethics, and data for future AI/ML models
- Knowledge base of *lessons learned* from Bridge2AI team science

Evaluate

- Assessment and establishment of validity for best practices
- AI/ML readiness of datasets
- Extent of outside adoption of Bridge2AI products
- Stakeholder engagement

Best practices for AI/ML in biomedical and behavioral research

M. Munoz-Torres

University of Colorado Anschutz Medical Campus

NIH/NHGRI Awards
National Human Genome Research Institute

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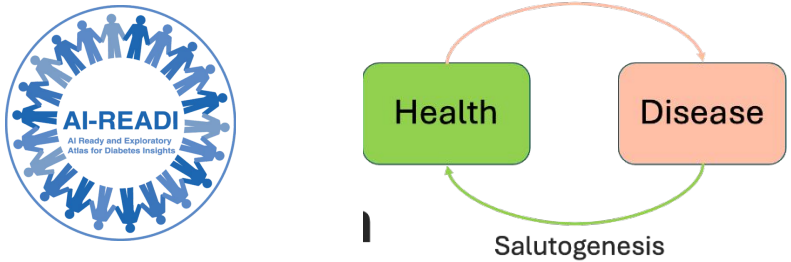
AIM AHEAD

About AI-READI

The goal of the **Salutogenesis Data Generation Project** (DGP) is to create a multidimensional, responsibly-sourced dataset in people for studying **salutogenesis** in Type 2 Diabetes and to support future AI-driven discoveries in diabetes.



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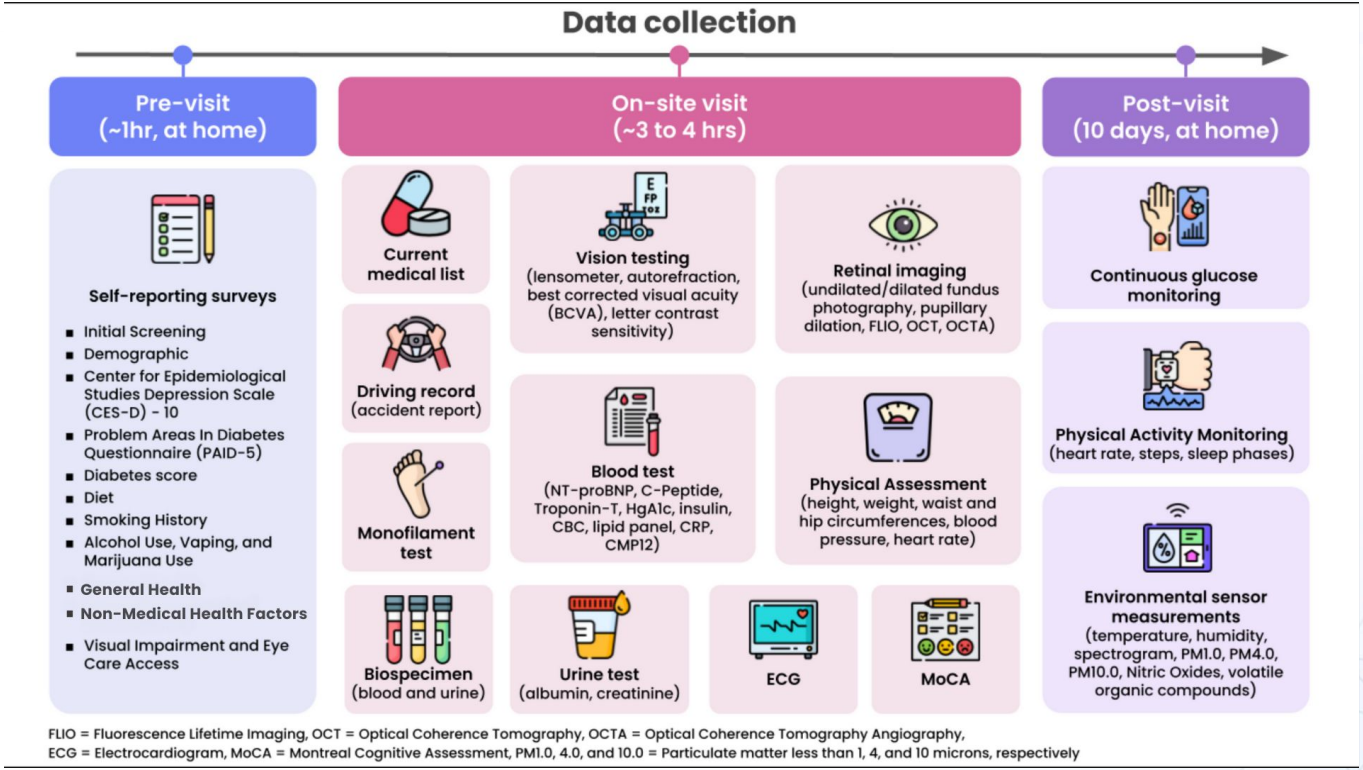
About AI-READI



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Training Overview

Trainees will receive hands-on training on the Bridge2AI AI-READI dataset and Fairhub.io platform, applying AI/ML methods and research skills to develop research proposals using real-world data. Training will include:

Foundational AI/ML Training	Analyzing Bridge2AI AI-READI data	Ongoing mentorship and support
Basic Biomedical Research Concepts	R. Python, Jupyter notebooks, and model development	Overview of AI-READI Domains
Foundations of ethical research and ethical considerations in AI-READI	Virtual live courses and workshops	Abstract development using AI-READI data

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Curriculum Overview

Training on the AI-READI Dataset

- Learn how to use the FAIRhub platform and gain access to the AI-READI dataset
- Receive mentorship from AIM-AHEAD and technical support from AI-READI to assist them in completing research proposals and projects using these data
- Engage in workshops on how to access and analyze the AI-READI data
- Gain exposure to a multi-modal array of data domains involved in the AI-READI dataset, including **unique data types such as retinal imaging data, EKG/waveform data, environmental sensor data**, and others

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Program Trainee Objectives

Objective 1

The trainee will exhibit advanced expertise in AI/ML principles.

Objective 2

The trainee will develop and present feasible and detailed research proposals to enter into Fairhub, utilizing the expertise and insights gained from the program.

Objective 3

The trainee will prepare a compelling poster presentation for the Bridge2AI and AIM-AHEAD Annual Meetings, submit an abstract for a health informatics or other scientific conference, and/or develop a manuscript for a peer-reviewed journal.

Outcome

After completing the program, trainees will have gained exposure to foundational principles in AI/ML, learned specifically how to work with the NIH Bridge2AI AI-READI dataset, and completed a research project using this data to advance their overall training and career development.

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Curriculum Overview

AFT (AI Foundational Training using AI-READI Data)

Module 01
Foundations of AI

Module 02
Classic Machine Learning

Module 03
Deep Learning

Module 04
Generative AI

Module 05
Human-AI fusion

Module 06
Responsible and Robust AI

+

Two Vibe Coding Workshops

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Trainee Expectations

In order to successfully complete the program, selected trainees must:

Time Commitment: Be able to commit to 8 hours per week (on average) of coursework and synchronous class sessions

Attendance: Attend one virtual, synchronous class session per week (day of the week and time TBD)

Assignments: Complete all assigned milestones and goals

Presentation of Work: Attend both the AIM-AHEAD Annual Meeting (July 2026) and the Bridge2AI Annual Meeting (May 2026) and present a works-in-progress poster.

*These are both in-person events and a travel allowance will be given to each trainee for travel expenses.

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Program Benefits

Stipend

An $8,000 stipend upon successful completion of trainee milestones

Travel allowances to attend both the AIM-AHEAD Annual Meeting and the Bridge2AI Conference in 2026

Support

Support and guidance from an experienced AIM-AHEAD mentor

Support from the AIM-AHEAD Data Science Training Core

Direct 1:1 guidance, virtual office hours, HelpDesk support, and concierge services supporting projects using AI-READI data

Training

Training on:

- Basic biomedical research concepts and human subjects research protection
- Foundations of ethical research and ethical considerations in AI-READI
- Stigma and Stigmatizing Research
- Biology and Society
- Social Responsibility in Research
- Overview of the domains in AI-READI
- R, Python, Jupyter notebooks, and model development
- Analyzing Bridge2AI AI-READI data

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AIM-AHEAD Mentorship Process

Each trainee will be matched with a mentor who will provide ongoing support throughout the training program. Mentors are matched with mentees using the Connect Platform. Mentorship matches are made using:

AIM-AHEAD CONNECT

- AI Algorithm
- Administrative Matching
- Mentor Pool Search

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Applicant Eligibility

Citizenship and Tax Requirements

- ✓ Must be a U.S. Citizen, Permanent Resident, or Non-Citizen U.S. National
- ✓ Permanent Residency must be established by Sept. 26, 2025
- ✓ Temporary visa holders (F1, J1, H1, etc.) are not eligible
- ✓ Accepted candidates must be able to submit a W-9 form

Participation Restrictions

- ✓ Current/former AIM-AHEAD program participants (awardees, fellows, trainees, mentors, advisors, coaches) are ineligible
- ✓ Applicants may apply to more than one AIM-AHEAD training program but can only be selected for one

Special Cases

- ✓ AIM-AHEAD Coordinating Center personnel and Federal employees may participate, but will not receive stipend or travel allowance

Note: Please refer to the full CFA on AIM-AHEAD.net for all eligibility requirements.

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Education & Experience

Education Requirements

- ✓ Minimum: Bachelor's degree in physical sciences, life sciences, math, statistics, data science, engineering, health sciences, or public health
- ✓ Eligible applicants include: post-baccalaureate and graduate students, postdocs, medical students/residents, allied health trainees, early-career investigators, and early-career professionals in non-academic institutions

Required Skills

- ✓ Prior programming experience
- ✓ Basic understanding of statistics
- ✓ Working command of English

Recommended Skills

- ✓ Coursework in probability and statistics or higher-level math
- ✓ Coding experience in R or Python
- ✓ Experience with data manipulation and management through coursework or research

Note: Please refer to the full CFA on AIM-AHEAD.net for all eligibility requirements.

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Eligibility Requirements

Eligible Organizations

- **Higher education institutions**
- **Nonprofits** (with or without 501(c)(3) status)
- **For-profit businesses and organizations**
- **Local, state, and tribal governments**
- **Other U.S.-based organizations**

  (e.g., school districts, housing authorities, faith-based, community-based, and regional organizations)

Email Requirement

In order to gain access to the AI-READI dataset, you will need to have a ".edu" email address.*

*This requirement is not a barrier to acceptance into the program.

Program administrators will assist with this access if needed.

Note: Please refer to the full CFA on AIM-AHEAD.net for all eligibility requirements.

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Application Requirements

Submission Deadline: September 26, 2025 by 11:59 PM EST

Required Application Elements

- **Profile Information** (basic applicant details in InfoReady portal)
- **Letters of Support & Recommendation**
  - Supervisor letter confirming protected time
  - At least one faculty recommendation (additional letters optional)

- **Academic Transcript** (undergraduate and, if applicable, graduate)
- **Biographical Sketch** (NIH biosketch or CV, max 5 pages)
- **Statement of Rationale** (≤2 pages) describing goals, need for training, relevant experience, and long-term plans

Important Note

- Applicants may apply to more than one program but can only be selected for one
- Applicants will rank program preferences in the application

**This is just an overview. Please see the CFA for the full list of application requirements*

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Application Process

Applications must be submitted between September 02, 2025 and September 26, 2025 at 11:59 PM EST

Note: Please use Chrome, Firefox, or Edge browsers.

1. **Familiarize yourself with the program requirements outlined in the call for applications**
2. **Gather all of the required application materials**
3. **Create an account on AIM-AHEAD Connect and register as a "mentee/learner"**
4. **Submit application for review using the InfoReady platform**

Up to 25 trainees will be selected

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Key Program Dates

CFA Release Date	September 02, 2025
Application Deadline	**September 26, 2025 by 11:59 PM EST**
Notice of Award	November 10, 2025
Program Start Date	**November 17, 2025**
Bridge2AI Conference 2026	May 2026
AIM-AHEAD Annual Meeting 2026	July 2026
Program End Date	**July 31, 2026**

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Questions?

SCAN ME

Please see the FAQ document linked above and in the chat

Scan the QR code above to access the AIM-AHEAD Bridge2AI AI-READI CFA.

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