Invitation to join the Accessible Healthcare through AI -Augmented Decisions (AHeAD) Center

AHeAD

A Proposed National Science Foundation Industry University Cooperative Research Center (IUCRC)

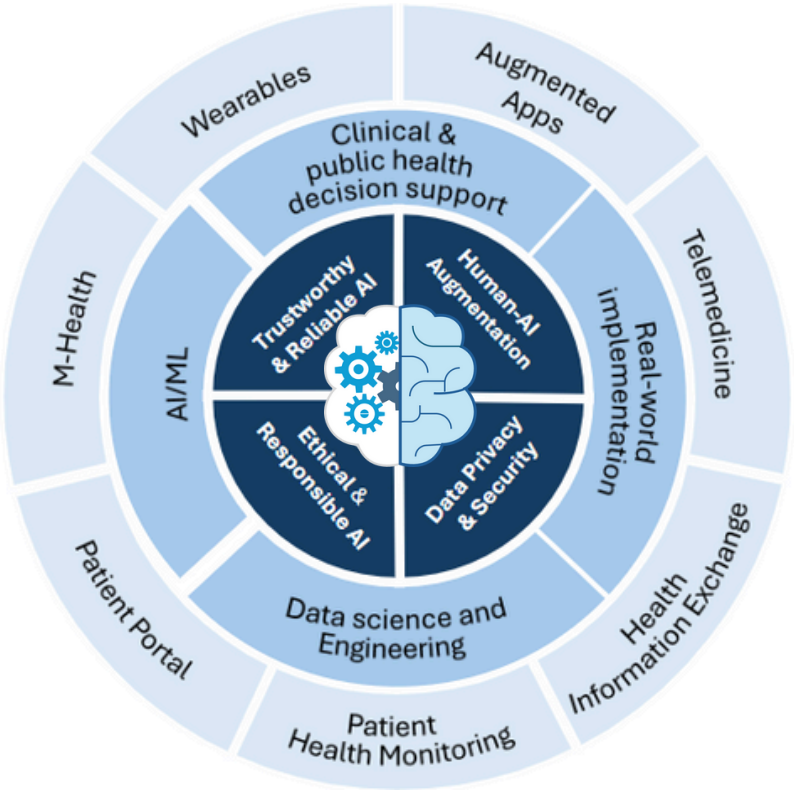
University of Louisiana Lafayette | Tulane University | Georgia Institute of Technology | University of Florida | Tampere University

Health organizations need research-driven, independently evaluated, well-validated approaches to bring AI-augmented decision support tools to improve access to patient care.

MISSION:

Our mission is to address technology gaps and create best practices to create usable AI-based healthcare decision-support tools for everyone.

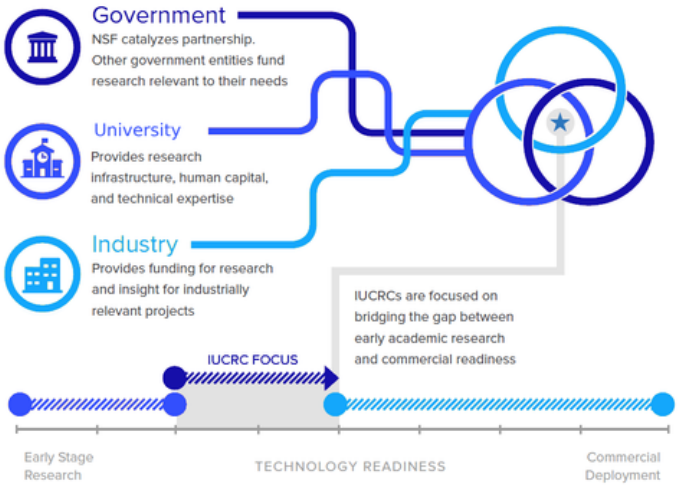
RESEARCH FOCI:



PARTNERSHIP MODEL:

AHeAD follows the well-established NSF IUCRC program framework to accelerate the development of critical technologies from early-stage research to the marketplace.

The center brings 40+ researchers, HIPAA-compliant state-of-the-art AI infrastructure, and a network of public, private, and nonprofit health organizations. The center will produce well-validated open AI models, tools, and datasets and help create a well-trained AI workforce for healthcare.



VALUE PROPOSITION:

- **Maximize ROI:** Potential 10:1 return through joint funding model leveraging prior investments
- **Mitigate R&D risks:** Reduce internal R&D costs and risks by leveraging well-proven NSF IUCRC model
- **Access skilled workforce:** Engage with students working in AI, creating talent pipeline
- **Expand collaborations:** Access diverse network of AI, healthcare, and industry experts

Website: https://nsfahead.org

WHY AN ACADEMIC PARTNERSHIP?

- **Access to State-of-the-art AI compute capacity:** Over 700 petaflops of compute using the latest NVIDIA H100s.
- **Access to world-class research expertise:** Experts from AI/ML, Data Science & Engineering, Clinical and Public Health, & Real-world Implementation Science.
- **Unbiased Evaluation**: Academic integrity ensures unbiased assessment of AI models.
- **Interdisciplinary Expertise:** Combining various fields leads to socially responsible AI solutions.
- **Open Source & Publishing**: Promotes wider innovation and transparency through shared research.
- **Ethical Standards**: Ensures AI adheres to high ethical standards, protecting privacy and fairness.

Tulane University is a leader in interdisciplinary research in health and AI. Tulane received a $23M ARPA-H award for developing AI-enhanced cancer imaging. The Center for Community-Engaged AI leads university-wide efforts in human-centered AI development in health and law. A $160M gift to the School of Public Health & Tropical Medicine will support health equity and AI initiatives.

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Please reach out to the leadership team to learn more about the AHeAD Center.

The University of Louisiana at Lafayette is a Carnegie R1 Research Institution and ranks in the top 12% of the nation for biomedical and medical research funding. In 2012, the NSF Center for Visual and Decision Informatics, focused on big data visualization, became Louisiana's first NSF Industry-University Cooperative Research Center.

Georgia Tech is a Carnegie R1 Research Institution. The National Science Foundation ranks Georgia Tech 20th among American universities with $1.11 billion in research and development expenditures for 2021. Georgia Tech has a supercomputer hub, and an AI Makerspace, that gives students access to computing resources typically available only to researchers or large tech companies. The makerspace gives our students hands-on experience, deepening their skills and preparing them to be the new generation of AI professionals.

The **University of Florida** is one of three members of the Association of American Universities in Florida and is classified among "R1: Doctoral Universities with very high research activity. UF is also home to the world's fastest AI supercomputer in academia, HiPerGator AI, delivering 700 petaflops of AI performance propelling the them to the forefront of AI innovation.

Tampere University is the second largest research university in Finland. The university is known for its excellence in teaching and research and collaborates with hundreds of universities and organizations worldwide. Our priority areas in research and education are technology, health, and society.

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