NADPH

ST.A.I.R.S. STudent AI Innovation and Research Success

PROGRAM

Artificial Intelligence (AI) is projected to provide up to a **$16T** boost to the global economy by 2030

Currently, the U.S. global leadership in AI and technology innovation is declining and its share in this global market threatened. A key contributor to this decline is a **lack of workforce diversity**, which is widely recognized as a driving force to creativity, a critical component of innovation.

A major part of the United States' strategy to address this lack of diversity is through increased investments in STEM and AI diversification through federal programs such as:

- **Data Science Equity, Access, and Priority in Research and Education (DEAP) – NASA**
- **Eddie Bernice Johnson INCLUDES program – NSF**
- **National Data Science Alliance – NSF**
- **AIM-AHEAD – NIH**

While these programs help support the U.S. strategic agenda on AI, innovative public-private models are needed to help achieve the scale and sustainability required to successfully address this deficit.

PROBLEM

- U.S. global competitive advantage in AI and Technology innovation is being threatened due to challenges in the STEM labor force

NEED

- Support U.S. Strategic Agenda to diversify STEM and increase innovation in AI and other technology

SOLUTION

- Student Success in AI Innovation Initiative
- Engagement, Assessment, SME Consult, Implement, Instruction (EASI2) Framework
- U.S. STEM Diversification and AI Capacity Building

HOW

- Provide AI and data resources and technology to help build capacity in AI
- Provide diversified STEM training & workforce development

The STudent AI and Innovation Research Success (ST.A.I.R.S.) Program

is an initiative developed and led by NADPH to support the United States' strategic agenda to accelerate diversification of STEM and increase innovation in AI and other technology. NADPH has built a scalable cloud-based platform that provides data, computational tools and resources, technology infrastructure, and access to an ecosystem of subject matter experts and technical support, to help build capacity in AI and provide diversified STEM training & workforce development.

NADPH is working with academic and industry partners to provide customized, scalable AI infrastructure and resources to support AI innovation and research. This work is being supported by contributions from partners across industry.