North Dakota State University AI SUSTEIN 2025
Summer Research Experiences for Undergraduates (REU)

NDSU was awarded a multiyear NSF Track-2 RII program "RII Track-2 FEC: Artificial Intelligence on Sustainable Energy Infrastructure Network (AI SUSTEIN) and Beyond towards Industries of the Future". This summer, the AI SUSTEIN program will offer an undergraduate research experience program at NDAU with a focus on AI applications in a variety of Science, Technology, Engineering, and Mathematics (STEM) related areas such as: manufacturing engineering, civil & environmental engineering, electrical engineering, computer science and science, or any related engineering, pre-engineering, mathematics, statistics, and education, etc. This program is intended to provide a coordinated, educational and dynamic research community to encourage research in the undergraduate study for minority students such as students from Tribal Colleges (TCs), Asian American and Native American Pacific Islander-Serving Institutions (AANAPISIs), Minority-Serving Institution (MSIs), Historically Black Colleges and Universities (HBCUs), and Hispanic Serving Institutions (HSIs).

WHERE:
- North Dakota State University, Fargo, ND

WHEN:
- The program runs for 8 weeks from June 9 to August 1, 2025.

WHO:
- Undergraduate students who are currently enrolled in a degree program at a college or university and will not graduate before December 2025.
- Must be a U.S. citizen or permanent resident.
- Preference will be given to minority students from TCs, AANAPISIs, MSIs, HBCUs, and HSIs.

BENEFITS:
- Participants will receive a stipend of $500/week (total of $4,000 for an 8-week program).
- On-campus housing will be provided.
- Meal allowance of $25 per day for 8 weeks (total $1,400 for 56 days).
- Travel support upon request. Maybe limited to $700.

APPLY AND DEADLINE:
- Submit the application through the link below: https://etap.nsf.gov/award/177/opportunity/10183 Or email the completed application form with two reference letters to Dr. Ying Huang at ying.huang@ndsu.edu, using the subject title "AI SUSTEIN REU Application".
- Applications must be received by February 3, 2025, for full consideration.

RESEARCH PROJECT:
The AI SUSTEIN Program is led by North Dakota State University in collaboration with the University of Arkansas - Fayetteville, UNLV, and Nueta Hidatsa Sahnish College, to establish collaborative research, workforce development, and education to investigate the potential of Artificial Intelligence (AI) as a driving force for bringing about radical changes to critical infrastructures and industries. Potential program mentors for 2025 at NDSU include:
- Dr. Ying Huang (Professor, civil, construction and environmental engineering)
- Dr. Di Wu (Associate Professor, electrical and computer engineering)
- Dr. Jun Kong (Professor, computer science)
- Dr. Harun Pirim (Assistant Professor, industrial and manufacturing engineering)
- Dr. James Caton (Associate Professor, agribusiness and applied economics)
- Dr. Jiale Xu (Assistant Professor, civil, construction and environmental engineering)
- Dr. Armstrong Aboah, (Assistant Professor, civil, construction and environmental engineering)
- Dr. Sumitha George, (Assistant Professor, electrical and computer engineering)
- **EXPLORE:**
In addition to the research experiences, this program will also have a variety of extracurricular activities such as professional development workshops, seminars, and social activities to enrich your experiences and explore the great Fargo community! For more about the Fargo community, please visit:
https://www.fargomoorhead.org/
CONTACT: Ping Hu, Project Coordinator, ping.hu@ndsu.edu; phone 701-231-7651.