

KANI Interdisciplinary Climate Science and Engineering Summer Camp, 2025

(No Reference Letters Required)

The University of Iowa is hosting a **two-week, paid summer camp/mini-internship** focused on advancing undergraduate students' knowledge in **weather prediction, local weather intelligence assessment, and resilience in agricultural communities**. This immersive program, funded by the National Science Foundation (NSF)'s EPSCoR program (award #2420405.), will provide hands-on training and exposure to cutting-edge technologies to 40 students.

Camp Highlights

Participants will:

- Understand climate science and resilience in the rural community.
- Explore emerging technologies, including the **Internet of Things (IoT), unmanned aerial vehicles (UAVs), machine learning (ML), artificial intelligence (AI)**, and cloud and high-performance computing applications.
- Engage in interactive **workshops, group projects**, and **professional development** activities.
- Work on a group project culminating in an **end-to-end application** aligned with students' academic and career interests.
- Gain KANI DARE Camp Participation Certificate

Program Details

- **What:** Workshops and hands-on training in emerging technologies, professional development sessions, networking opportunities, and group projects.
- **When:**
 - Onsite: June 2–13, 2025 (Monday–Friday, 8:30 AM–4:00 PM)
 - Virtual: Pre-workshop training (one week before camp) and post-camp follow-ups (one week after camp).
- **Where:** The University of Iowa, Iowa City, IA
- **Cost:** Free! Includes housing and a stipend of **\$100 per day** for June 2-13, 2025. Need-based travel funding is available upon application.
- **Topics:**
 - Weather intelligence and community resilience
 - Sensor development and deployment
 - Artificial intelligence applications
 - Unmanned aerial vehicles (UAVs)
 - Field trips
 - Professional development workshops
 - Networking opportunities



Eligibility Open to **undergraduate students** currently enrolled in public or private universities or community colleges in **Kansas, Arkansas, Nebraska, and Iowa (KANI states)**.

How to Apply Submit the following materials by **April 15, 2025**, to: <https://dare.org.uiowa.edu/>

- A one-page resume
- An unofficial transcript
- A one-page essay describing how this camp aligns with your academic and career goals



Take advantage of this opportunity to gain valuable skills, expand your network, and prepare for cutting-edge challenges in climate science and engineering!

For additional questions, please contact Marc Linderman (marc-linderman@uiowa.edu) and Shaoping Xiao (shaoping-xiao@uiowa.edu).

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