

About CAPS

Mission

The formal mission of CAPS is to demonstrate the practicability of storm-scale numerical weather prediction and to develop, test, and validate a regional forecast system appropriate for operational, commercial, and research applications.

CAPS' Five Research Thrust Areas

A numerical weather prediction system must **ingest weather data**, process the data in an **atmospheric model**, and create a variety of **forecast products**. CAPS researches these components via five thrust areas (see inside):

1. Data Acquisition
2. Data Assimilation
3. Model Development
4. Simulation/Prediction Studies
5. Operational Testing

CAPS is a Science and Technology Center (STC)

To maintain US industrial competitiveness in a global market, the National Science Foundation (NSF) has funded 25 STCs since 1988. Each STC promotes basic research in a major scientific area and transfers the resultant technological advances to governmental agencies, university research groups, and private industry.

CAPS is Part of the Oklahoma Weather Center (OWC)

The OWC is a consortium of local weather-related organizations which represent a "critical mass" of meteorological resources and expertise unequaled elsewhere. Member organizations include:

University of Oklahoma (OU) School of Meteorology
National Severe Storms Laboratory
Oklahoma Climatological Survey
National Weather Service Forecast Office
WSR-88D Operational Support Facility
Cooperative Institute for Mesoscale Meteorological Studies
Center for Analysis and Prediction of Storms
Center for Computational Geosciences
OU Department of Geography

Opportunities

Research Positions

In any of CAPS' five thrust areas, there are research opportunities in the form of:

- ♦ full-time scientific staff
- ♦ graduate research assistantships
- ♦ short-term sabbatical positions
- ♦ post-doc appointments
- ♦ visiting scientist

Undergraduate Fellowships

CAPS offers 1-year fellowships for undergraduates interested in meteorology and related disciplines such as geosciences, mathematics, engineering, or computer science.

Education and Outreach

CAPS develops and supports educational programs which reach elementary and secondary school students with the intent of exposing them to science. Special effort is made to reach children and adolescents of minority groups which are generally under-represented in the sciences.

Address for more information:

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