



**\*\* Weather Information – Presentation & Aiding \*\***  
*~ NASA Langley Research Center Fellowships ~*



**The Aviation Weather Information (AWIN) Program**

Weather continues to be identified as a causal factor in about 30% of all aviation accidents. To reduce these aviation accidents, NASA instituted the Aviation Weather Information (AWIN) project within NASA's Aviation Safety Program. AWIN's goal is two-fold: to develop enhanced weather products, based on sensor and communications technology, and to improve pilot's situation awareness of, and safe response to aviation weather hazards. The Aviation Weather Information project also addresses the collaborative nature of weather detection and avoidance among pilots, dispatchers, air traffic controllers, and other ground personnel and systems. Additional information about AWIN and the aviation weather information problem can be found at the AWIN Website: <http://awin.larc.nasa.gov>.

**AWIN Topics**

This announcement advertises opportunities to develop decision aiding methods and technologies, and to address research issues associated with information presentation, decision aiding, automation and measuring human performance. Topics of interest include:

- Weather hazards alerting schemes.
- Automated/Aided monitoring & sensor management.
- Weather/Terrain/Traffic/Airspace data fusion.
- Personal tolerances for weather exposure.
- Intelligent agents for information management
- Expressing weather implications for mission.
- Representing/Presenting spatial and temporal uncertainty.
- Collaborative decision-making with weather information.
- Expressing risk associated with weather hazards.
- Fuzzy classifiers for hazard characterization

**NASA Fellowship Opportunities**

>>*The deadline for all applications is February 1, 2003*<<

**Graduate Student Fellowships**

Graduate Student Researcher Fellowships (GSRPs) are awarded for graduate study leading to research-based masters or doctoral degrees in a field consistent with ongoing NASA research. Grants of up to \$22000, are awarded for one year and are potentially renewable for a total of three years. Preferred students have completed required graduate coursework and propose work aligned with advisor's research. Interested applicants should consult the GSRP website (<http://education.nasa.gov/gsrp/>) or Mr. Lloyd Evans ([l.b.evans@larc.nasa.gov](mailto:l.b.evans@larc.nasa.gov)) for eligibility and submission requirements.

**Undergraduate/Graduate Summer Internships**

The Langley Aerospace Research Summer Scholars Program was established to benefit undergraduate juniors and seniors and first-year graduate students whose academic interests and skills are consistent with ongoing work at NASA Langley. LARSS Participants receive \$4000 for a ten-week summer tenure in which they complete a research project and attend weekly technical lectures. Interested applicants should consult the LARSS website (<http://edu.larc.nasa.gov/larss/>) or Ms. Heidi Davis ([larss@larc.nasa.gov](mailto:larss@larc.nasa.gov)) for eligibility and submission requirements.

**Summer Faculty Fellowship**

NASA also offers the ASEE summer scholar program for faculty appointments. The NASA/ASEE Summer Faculty Fellowship Program exists to further the professional knowledge of qualified engineering and science faculty, to stimulate an exchange of ideas between teaching participants and employees of NASA, to enrich and refresh the research and teaching activities of participants' institutions, and to contribute to the research objectives of the center. Participants will attend a NASA Langley/ASEE lecture & tour series. Interested applicants should consult the NASA/ASEE website (<http://talawah.larc.nasa.gov/asee/>) or Ms. Debbie Murray ([d.b.murray@larc.nasa.gov](mailto:d.b.murray@larc.nasa.gov)) for eligibility and submission requirements.

**Websites & Points-of-Contact**

<b>NASA Graduate Fellowship</b>	<b>Summer Langley Undergrad. Program</b>	<b>ASEE Summer Faculty Program</b>
<a href="http://education.nasa.gov/gsrp/">http://education.nasa.gov/gsrp/</a>	<a href="http://edu.larc.nasa.gov/larss/">http://edu.larc.nasa.gov/larss/</a>	<a href="http://talawah.larc.nasa.gov/asee/">http://talawah.larc.nasa.gov/asee/</a>
Program Coordinator	Program Coordinator	Program Coordinator
Mr. Lloyd Evans, <a href="mailto:l.b.evans@larc.nasa.gov">l.b.evans@larc.nasa.gov</a>	Ms. Heidi Davis, <a href="mailto:larss@larc.nasa.gov">larss@larc.nasa.gov</a>	Ms. Deb Murray, <a href="mailto:d.b.murray@larc.nasa.gov">d.b.murray@larc.nasa.gov</a>

***Please refer to the AWIN Research Project (POC: Dr. Kara Latorella).***