

Texas A&M System-Wide Classification Description

Classification Title Code/Title: 9221 - Fire Weather Analyst IV

Exempt Status: Exempt

Pay Grade: 14

Job Summary: This position serves as the lead weather analyst for the Agency, with primary responsibility for the Forest Resource Protection Division's, Predictive Services Department's fire weather responsibilities.

Essential Duties and Responsibilities

- Provide weather analysis and support of weather and environmental monitoring systems, data, and infrastructure with the Predictive Services Department.
- Identify opportunities where weather analysis can contribute to a solution to a problem and conduct the appropriate analysis.
- Monitor current weather conditions for any significant weather concerns and notify agency units as needed..
- Provide specialized reports based on analysis of climatology and current weather systems on regular (weekly, monthly), and as requested basis.
- Assist department staff in data collection, data processing, analysis, reporting, and presentation of results on projects and studies.
- Respond to requests for weather information from the public, other organizations, and other TFS staff as necessary.
- Enhance existing analytical techniques to produce a better decision-support information.
- Adapt, enhance, develop and /or implement cutting-edge analytical techniques that utilize remote sensing, environmental data, and modeling to derive products needed in program area.
- Develop new and enhance existing applications as necessary for program area.
- Evaluate, develop, and complete long-range program goals that enhance the position of the program as a leader.
- Conduct in depth analysis using advance data and models.
- Conduct fire weather training as part of NWCG S-390 fire behavior course.
- Plan, direct and lead projects or activities requiring advanced quantitative analysis
- Support emergency response operations with weather analysis and forecast services.
- Lead, train, or supervise department staff in fire weather analytical procedures.

This document represents the major duties, responsibilities, and authorities of this job, and is not intended to be a complete list of all tasks and functions. Other duties may be assigned.

Additional Responsibilities

As assigned

Minimum Requirements

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Education – Bachelor's degree in Meteorology / Atmospheric Science or Bachelor's degree in earth sciences, math, statistics, or related field of study, with a minimum of 16 semester hours in Meteorology / atmospheric science

Experience – Ten years of experience in weather analysis and forecasting.

Knowledge, Skills, Abilities

- Demonstrate knowledge of the concepts and processes of meteorology including: complex interactions the atmosphere has with the earth weather observations and analysis, regional climatology and current weather trends, and practical weather forecasting.
- Demonstrate analysis skills in each of the following areas: atmospheric stability, low and high pressure systems, climatology, and the impact of weather on the fire environment.
- Comprehensive knowledge of fire weather forecasting
- A comprehensive knowledge of Texas climate and weather patterns, and primary climate and weather factors that impact fire season and fire potential levels in Texas.
- Ability to conduct fire weather briefings at the incident level
- Ability to develop local fire weather thresholds for wind, temperature and relative humidity, as it relates to fire behavior and fire danger.
- Ability to work independently and use sound judgement to find solutions to common complex problems.
- Ability to manage projects effectively
- Ability and desire to keep abreast of new developments and standards in meteorological technology and analysis.
- Proficient use of computer and MS Office

Registration, Certification, or Licensure

- Valid Texas driver's license or must acquire within 30 days of employment

Supervision Received/Given

- Under general direction / generally does not supervise

Other Requirements

- Serve as Texas A&M Forest Service Liaison with the National Weather Service and other state and federal agencies with a weather emphasis.

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Administrative physical demands:
 - May require extended bending, reaching, stooping, kneeling, squatting and sitting.
 - May require extended communication with visitors and employees in person, telephonically or electronically.
 - May require infrequent travel in State vehicles with overnight stays.
 - May require operating computers with high definition screens for extended periods of time.