

CLASS TITLE: STATE METEOROLOGIST/ATMOSPHERIC SCIENTIST (DEM)

Class Code: 02511100
Pay Grade: 32A
EO Code: B

CLASS DEFINITION

GENERAL STATEMENT OF DUTIES: Within the Department of Environmental Management, to manage state metrological support services for various state agencies and authorities; to serve as a liaison between national weather information services, state emergency response agencies, the Governor's Office and university researchers; to be responsible for complex work in an air quality control engineering program; to perform professional scientific work involving complex problems in air quality control engineering; to evaluate and forecast atmospheric air pollution and weather-related phenomena; to provide weather information to assist state authorities in emergency operations for weather-related problems; to review and assist in the implementation of technological developments in air pollution meteorology and mathematical modeling; and to do related work as required.

SUPERVISION RECEIVED: Works under the general supervision a superior with wide latitude for the exercise of initiative and independent judgment; work is subject to review through consultation and submitted reports for conformance to established policies and objectives and accepted air quality control engineering methods and techniques.

SUPERVISION EXERCISED: As required, plans, supervises and reviews the work of professional, technical and clerical personnel assigned to assist.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

Within the Department of Environmental Management, to manage state metrological support services for various state agencies and authorities; to serve as liaison between national weather information services, state emergency response agencies, the Governor's Office and university researchers; to be responsible for complex work in an air quality control engineering program; to perform professional scientific work involving complex problems in air quality control engineering; to evaluate and forecast atmospheric air pollution and weather-related phenomena; to provide weather information to assist state authorities in emergency operations for weather-related problems; and to review and assist in the implementation of technological developments in air pollution meteorology and mathematical modeling.

To be responsible for supplying a daily analysis of meteorological data to state officials, determining any weather-related threats from various federal, state and university-based meteorological sources.

To collaborate as necessary with the National Weather Service providers, including weather forecast offices, the National Hurricane Center, the Storm Prediction Center, the US Geological Survey (USGS) and the National Oceanic and Atmospheric Administration (NOAA).

To prepare weather briefings and presentations for government officials, media and the public using data gathered from pertinent services during activations of the State Emergency Management Center.

To independently perform special assignments related to meteorological topics, as needed.

To monitor ambient air conditions and/or emission rates from various air pollution sources and source categories, including potential sources of radioactivity; prepare plans to monitor air quality; install and/or maintain air quality monitoring equipment; perform air quality modeling using existing or future emission inventories; perform statistical analysis of measured air quality data, evaluate air quality sections of environmental impact statements; and provide technical advice relating to the solution of air quality problems, as assigned.

To coordinate and collect weather observations for the purpose of climate monitoring, as assigned.

To summarize and disseminate weather and climate information to the user community, as assigned

To demonstrate to the user community the value of climate information in the decision making process, as assigned

To perform climate impact assessments and weather event evaluations, as assigned

To conduct climate research, diagnosis and projections, as assigned

To be responsible for the preparation of air quality standards, air quality control regulations and an annual summary and evaluation of current air quality, as assigned.

To be responsible for recommending to a superior the approval, non-approval, or specific changes on applications to construct, install or modify equipment which may emit pollutants and air quality control systems.

To review reports, investigations and studies, interpret findings, prepare written reports and make recommendations to a superior.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS, AND CAPACITIES: A thorough knowledge of the terminology and principles of meteorology and the ability to provide technical briefings to the State Emergency Response Team and the media; a thorough knowledge of meteorological data analysis from National Weather Service providers, including but not limited to, National Weather Service Forecast Offices, the National Hurricane Center, and the Storm Prediction Center; a thorough knowledge of the principles and practices of air control engineering and air quality monitoring as the relate to the control or limitation of emissions from all air pollution sources and the attainment and maintenance of air quality standards; a working knowledge of public health problems resulting from air contaminants; a thorough knowledge of weather-related threats and an ability to analyze meteorological data to determine hazardous weather threats; a knowledge of computer-based report preparation and strategic planning; the ability to research, prepare, and present reports, briefings, and technical programmatic information regarding meteorological data and forecast to government officials; the ability to work in an operational mode to provide critical weather-related data to state and local government entities; during activations of the State Emergency Operations Center; the ability to coordinate, develop, and manage weather-related public information; the ability to make recommendations on complex engineering problems relating to the improvement of the design, location, operation and maintenance of such facilities; the ability to plan, supervise and participate in air quality control engineering investigations; the ability to design an Air Quality Monitoring Network; the ability to evaluate air quality data with regard to air control regulations and air quality standards; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a college of recognized standing with specialization in either environmental engineering, meteorology or atmospheric science or chemical engineering; and advanced study, at the graduate level in meteorology or atmospheric science: and

Experience: Such as may have been gained through: considerable responsible employment in a professional capacity in meteorology or an atmospheric quality control regulatory program.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Created: March 10, 2013