

Atmospheric Scientists, Including Meteorologists

SOC: 19-2021 • Career Profile Report

■ Key Facts

\$97,450

Median Salary

9,400

Employment

+1.0%

Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 8.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

7.5/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	6.2/10	Investigative	9.4/10
Artistic	5.6/10	Social	6.4/10
Enterprising	4.8/10	Conventional	6.4/10

■ Top Skills Required

Analytical skills, Communication skills, Critical-thinking skills, Math skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Atmospheric Scientists, Including Meteorologists typically perform the following tasks:

- Develop or use mathematical or computer models for weather forecasting.
- Interpret data, reports, maps, photographs, or charts to predict long- or short-range weather conditions, using computer models and knowledge of climate theory, physics, and mathematics.
- Conduct meteorological research into the processes or determinants of atmospheric phenomena, weather, or climate.
- Formulate predictions by interpreting environmental data, such as meteorological, atmospheric, oceanic, paleoclimate, climate, or related information.
- Broadcast weather conditions, forecasts, or severe weather warnings to the public via television, radio, or the Internet or provide this information to the news media.
- Prepare forecasts or briefings to meet the needs of industry, business, government, or other groups.
- Gather data from sources such as surface or upper air stations, satellites, weather bureaus, or radar for use in meteorological reports or forecasts.
- Develop computer programs to collect meteorological data or to present meteorological information.
- Prepare weather reports or maps for analysis, distribution, or use in weather broadcasts, using computer graphics.
- Develop and deliver training on weather topics.
- Prepare scientific atmospheric or climate reports, articles, or texts.
- Analyze climate data sets, using techniques such as geophysical fluid dynamics, data assimilation, or numerical modeling.
- Analyze historical climate information, such as precipitation or temperature records, to help predict future weather or climate trends.
- Consult with other offices, agencies, professionals, or researchers regarding the use and interpretation of climatological information for weather predictions and warnings.
- Speak to the public to discuss weather topics or answer questions.
- Apply meteorological knowledge to issues such as global warming, pollution control, or ozone depletion.
- Perform managerial duties, such as creating work schedules, creating or implementing staff training, matching staff expertise to situations, or analyzing performance of offices.
- Measure wind, temperature, and humidity in the upper atmosphere, using weather balloons.
- Direct forecasting services at weather stations or at radio or television broadcasting facilities.
- Collect air samples from planes or ships over land or sea to study atmospheric composition.

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Source: <https://www.bls.gov/ooh/life-physical-and-social-science/atmospheric-scientists-including-meteorologists.htm>