





This career compass provides options, tips, suggestions, and strategies for how a student can obtain critical skills, experiences, and competencies in order to launch their geoscience career based on their academic standing. The content herein is based on data from the U.S. Bureau of Labor Statistics, interviews with personnel in the occupation, and research on available student opportunities.

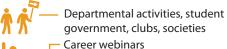
Job Summary

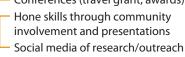
Atmospheric scientists study the present weather and future and past climate, and how those conditions affect human activity and the Earth in general. They may develop forecasts, computer models, collect and compile data from the field, assist in the development of new data collection instruments, or advise clients on risks or opportunities caused by weather events and climate change. They are adept at data analysis, uncertainty and risk analysis, computer science, and mathematics.

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Undergraduate







television, or private sector Research Experience for Undergraduates, SOARS program, NCAR/UCAR summer internships NOAA or NASA Pathways, Minority University Research and Education Project, Educational Partnership

Research and field experience Forecasting laboratories/contests

science or other physical science Courses in math, physics, media and communications, engineering or computer science

Broadcast meteorology demonstration Write senior thesis

Graduate/Master's



Lead workshops at conferences Departmental committee, campus club, professional society - AMS Summer Policy Colloquium

Career webinars NCAR Innovator's program Workshops/NCAR ASP Colloquium

- NCAR's ASP Grad Student Fellowship **AMS Graduate Fellowships** NSF Graduate Research Fellowship

Naval Research Enterprise NOAA or NASA Pathways Program NOAA 's Chesapeake Bay and National Centers for Environmental Prediction internships, NOAA-NSF - Graduate Research Internship

Field, observational, or instrumentation experiences Forecasting laboratories/contests

geoscience, climate science, oceanography, mathematics or physics, engineering, computer science, chemistry

Master's thesis related to atmospheric sciences

Ph.D./Post-doc

Present at community events, local schools, or public events Present research at conference

Publish research

Departmental committee, campus club, professional society

Research mentor for undergraduates

AMS Summer Policy Colloquium Events, activities, and technical sessions at conference

NCAR/UCAR laboratories

NCAR ASP Colloquium Career webinars

NCAR's ASP Postdoctoral program

Presidential Management Fellowship

NOAA/NRC Postdoctoral Program, NOAA Climate and Global Change Postdoctoral fellowship, Postdocs Applying Climate Expertise (PACE) **AAAS Congressional Science**

NSF Graduate Research Fellowship

Field, observational, or instrumentation experiences

> Degree in atmospheric science, geoscience, climate science, oceanography, mathematics, physics, or computer science

Dissertation topic(s) related to atmospheric sciences



















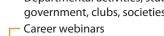


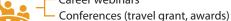


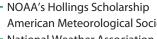


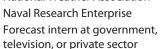
Grow

Build





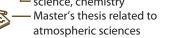




Institutions, Woods Hole PEP

Degree in meteorology, atmospheric







Program with Minority-Serving

Degree in atmospheric science,