

Senior Scientist: Weather Forecasting Methods and Technologies

The Weather Company seeks a high-level scientist to participate and lead in the development and deployment of state-of-the-science weather forecasting methods and technologies. The incumbent will have responsibility to develop and oversee scientific programs aimed at ensuring that The Weather Company's forecasts and related weather information are perpetually industry-leading and world-class. The position works with and oversees a team of advanced-degree scientists, engineers and meteorologists in the Global Forecasting Services (GFS) group working to develop and implement cutting-edge forecasting solutions. Research and development activities in the GFS group currently range from convective resolving numerical weather prediction including its antecedent data assimilation, machine-learning methods in forecasting and other applications of artificial intelligence, nowcasting systems, global mesoscale analysis techniques and a large suite of applied forecasting applications. The GFS R&D resources include a NWP computing platform approaching 3,000 cores, a cloud-based R&D testbed, a peta-scale R&D archive, and a real-time operational forecasting platform delivering over 10 billion unique global forecasts per day.

The successful applicant is one who is passionate about weather and forecasting, and is motivated to develop state-of-the-science solutions for providing the world's best weather forecasts to billions of people and businesses world-wide every day. The incumbent will have broad latitude to develop new scientific directions and methods for the company which may include creating and management of multi-million dollar weather R&D investment portfolio. As such, she/he is expected to have considerable experience and have demonstrated material efficacy in developing technical weather solutions.

Duties and Responsibilities

- Propose, develop, test, mature and implement techniques and methods for cutting edge weather forecasting systems and its applications.
- Closely work with and/or manage a team of scientists and engineers working on a broad portfolio of weather forecasting systems and applications
- Own the objective quality of The Weather Company forecasts and ensuring world-class leadership in overall forecast skill.
- Identify new opportunities for next generation products and services, working closely with operational forecasting and product development teams.
- Develop and manage appropriate computational and related infrastructures to meet the R&D mission and to host operational outcomes of the technologies developed working closely with IT teams.
- Stay current with community advancements in the weather forecasting sciences and related technologies
- Propose, defend and manage budgets supporting the internal R&D activities

Qualifications

- Ph.D. in meteorology or closely related field, or an equivalent combination of education and experience.
- Broad knowledge of a wide spectrum of science and methods applicable to modern weather forecasting technologies including numerical weather prediction, data assimilation, machine learning, mesoscale analysis, nowcasting techniques, etc.
- 7 years of experience developing creative forecasting technologies and related applications.
- Proven track record of developing weather forecasting science and technologies that have been reduced to practice in real-world applications.
- Working knowledge of relevant computing technologies including high-performance computing systems and methods
- Software development experience in one or more relevant languages.
- Basic understanding of the software development process including best practices and industry standards.
- Experience managing a team of technical professionals working together on common projects.
- An overall passion for weather.
- Tenacity in creating practical solutions.

Interested candidates should send their resume and cover letter to jobs@wsi.com – and reference Senior Scientist in your communication.

About The Weather Channel Companies

The Weather Channel companies (TWCC) are made up of The Weather Channel® television network, The Weather Channel digital properties, WSI, Weather Underground and Weather Central. The Weather Channel is based in Atlanta and is seen in more than 100 million U.S. households. TWCC also operates Weatherscan®, a 24-hour all-local weather network; The Weather Channel Radio Network; and The Weather Channel HD. The most popular source of weather news and information, TWCC properties reach 60 million monthly Web consumers (weather.com and Desktop) and 30 million monthly mobile users (mobile Web and applications) and offers the second most popular mobile app on all smartphones.

WSI, headquartered in Andover, MA, with locations in Madison, WI and Birmingham, UK primarily provides business-to-business weather services, particularly for the media, aviation, marine and energy sectors, and is the leading provider of professional on-air, online, print, mobile and enterprise weather solutions and forecasting science to companies worldwide. Online weather service Weather Underground is based in San Francisco, and has developed the world's largest network of personal weather stations. Weather Central based in Madison, WI is the leading provider of professional on-air, online, print, mobile and enterprise weather solutions and forecasting science to companies worldwide.

TWCC is owned by a consortium made up of NBC Universal and the private equity firms The Blackstone Group and Bain Capital.

WSI Corporation and the Weather Company is an equal opportunity employer and gives consideration for employment to qualified applicants without regard to race, color, religion, gender, sexual orientation, national origin, disability or protected veteran status.