

Senior Meteorological Software Developer

If you are motivated to create and deploy innovative weather technology that reaches hundreds of millions of people worldwide you will want to work within our Global Forecast Services Sciences group. This group is responsible for providing the overall forecasting solutions for the Weather Company by acquiring, developing, and/or refining technologies that represent cutting-edge weather and forecasting science. This includes the development of meteorological products for the analysis and forecasting of weather, and presentation of weather information to all TWCC product lines.

The Weather Company is dedicated to creating and delivering the World's Best Weather, and building the science and technology necessary to support this objective. As we endeavor to accelerate our development and deployment of state-of-the-science methods in a number of weather and forecasting areas. This position will contribute to those efforts. Initially, the incumbent will work with a team developing new techniques to ascertain ongoing weather and short-term forecasts built from disparate weather observing systems, and then creating the software to implement those methods. In the longer-term, this position will contribute to a variety of cutting-edge weather forecasting technologies that cover a wide array of scope and uses, including numerical weather prediction systems, statistical forecasting engines, and other modern weather analysis and forecasting methods.

The primary responsibilities of this position will be to assist in the creation of new methods, and the design, development, and reduction to practice of software that embodies those methods.

Duties and Responsibilities

- Work with the Global Forecasting Services team in the creation, evaluation, refinement and reduction to practice of cutting-edge meteorological science and software in order to create world-class weather and forecasting technology.
- Develop high-level, robust meteorological software applications that employ modern software engineering methods and practices.
- Work closely with operational teams to transition developed software into operations and provide ongoing technical support as necessary.
- Assist in the experimentation and prototyping of novel methods in order to determine the efficacy of new solutions to forecasting improvements.
- Perform problem analysis and solution development, and provide alternative solutions as required.
- Document and demonstrate solutions by developing documentation, flowcharts, layouts, diagrams, charts, and code comments.
- Improve operations of deployed technologies by conducting systems analysis; recommending changes in applications, procedures and/or policy as needed.
- Provide estimates of the level of effort required for new projects.
- Work as part of a development team to build maintainable and scalable software.
- Maintain and extend skills and expertise by studying scientific and technical literature, and learning about state-of-the-art development tools, programming techniques and computing equipment.

Qualifications

- Master's Degree in meteorology, atmospheric science, computer science, or a related field, or equivalent level of education and experience.
- 5 years of related experience in software engineering with demonstrated achievements and progressive responsibilities.

- Experience developing in multiple languages (including C++).
- Experience developing parallel applications using OpenMP, MPI and/or other parallel implementations.
- Experience using meteorological datasets such as NOAAPort, numerical weather prediction output and NEXRAD weather radar content in a variety of technical formats such as grib2 and netCDF.
- Experienced in the design and use of structured programming and design methodologies.
- An ability to understand complex software systems and work within a hybrid development team.
- A sufficiently advanced level of experience and technical abilities, including the ability to lead others in selecting methods, techniques and evaluation criteria for obtaining results.
- Solid knowledge and experience coding in a LINUX/UNIX environment, including shell scripting.
- Superior analytical and problem-solving abilities especially related to computing and applications.
- Comprehensive knowledge of professional software development process and concepts, with the ability to lead and teach others.
- Excellent and demonstrated communication skills (verbal, written, wiki and white-boarding).
- Ability to communicate and coordinate projects in a team leadership capacity.

Interested candidates should send their resume and cover letter to jobs@wsi.com – and reference Senior Meteorological Software Developer 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.