Earthquake Engineer
Boston, MA, USA
Full-time
Verisk Business: Extreme Event Solutions

Company Description
We help the world see new possibilities and inspire change for better tomorrows. Our analytic solutions bridge content, data, and analytics to help business, people, and society become stronger, more resilient, and sustainable.

Job Description
This Research Engineer is responsible for developing and supporting the engineering components of Verisk's wind vulnerability models that cover multiple regions and perils, including perils such as straight-line wind, tornadic wind, hail, snow, and freezing temperatures. General responsibilities include identifying the impact that these perils can have on the built environment, including physical damage which can result in monetary loss to buildings/infrastructure, contents, and loss of use (downtime). In this role, you will work closely with a team of structural engineers and atmospheric scientists to perform probabilistic risk assessments for the built environment, and present and explain results to internal stakeholders and external clients.

The evolving nature of research work at Verisk creates unique and challenging problems that spark innovation and growth and creates opportunities for its employees. A successful candidate should have a desire to use problem-solving skills in applying sound engineering principles to solve unique and challenging problems in the fields of civil/structural engineering and risk assessment. It is expected that candidates will be highly motivated, detail-oriented, well-organized, able to perform high-quality self-directed research, have outstanding written and verbal communication skills, and be team-oriented.

About the Day to Day Responsibilities of the Role
As a member of our Atmospheric Perils Vulnerability Team, your day-to-day responsibilities will include the following:

- Data acquisition and analysis for the purpose of understanding building inventory and its vulnerability subjected to atmospheric-based hazards in multiple regions worldwide
- Analytical analyses and research aimed towards the development of vulnerability functions and monetary loss curves for structural and non-structural building and infrastructure components subjected to hazards such as wind, tornadoes, hail, and snow for several regions of interest worldwide
- Implementation of research into AIR's portfolio risk analysis models, including programming loss simulation codes and analysis tools, and probabilistic assessment validation
• Use of GIS tools for data visualization and analysis
• Real-time and virtual building damage assessments due to natural catastrophes during and after significant events
• Preparation and presentation of work at staff internal and client external meetings as well as technical writing for internal and external publications and client-facing documentation

#LI-SM1

Qualifications

About You and How You Can Excel in This Role

• Ph.D. in Wind Engineering, Structural Engineering, Civil Engineering, and/or other relevant fields
• Experience in performance-based design, probabilistic and stochastic risk assessment and modeling, and reliability theory with applications to the field of structural engineering
• Proficient in C/C++, MATLAB, R, and/or FORTRAN
• Demonstrated data mining skills (SQL and/or statistical analysis)
• Excellent written and verbal communication skills
• Strong organizational and excellent documentation skills
• Knowledge of GIS applications (e.g. ArcView) and SQL server is a plus

Additional Information

At the heart of what we do is help clients manage risk. Verisk (Nasdaq: VRSK) provides data and insights to our customers in insurance, energy and the financial services markets so they can make faster and more informed decisions.

Our global team uses AI, machine learning, automation, and other emerging technologies to collect and analyze billions of records. We provide advanced decision-support to prevent credit, lending, and cyber risks. In addition, we monitor and advise companies on complex global matters such as climate change, catastrophes, and geopolitical issues.

But why we do our work is what sets us apart. It stems from a commitment to making the world better, safer and stronger.

It's the reason Verisk is part of the UN Global Compact sustainability initiative. It's why we made a commitment to balancing 100 percent of our carbon emissions. It's the aim of our “returnship” program for experienced professionals rejoining the workforce after time away. And, it's what drives our annual Innovation Day, where we identify our next first-to-market innovations to solve our customers' problems.

At its core, Verisk uses data to minimize risk and maximize value. But far bigger, is why we do what we do.

At Verisk you can build an exciting career with meaningful work; create positive and lasting impact on business; and find the support, coaching, and training you need to advance your career. We have received the Great Place to Work® Certification for the 7th consecutive year. We've been recognized by Forbes as a World's Best Employer and a Best Employer for Women, testaments to our culture of engagement and the value we place on an inclusive and diverse workforce. Verisk’s Statement on Racial Equity and Diversity supports our commitment to these values and affecting positive and lasting change in the communities.
where we live and work.

Verisk Analytics is an equal opportunity employer.

All members of the Verisk Analytics family of companies are equal opportunity employers. We consider all qualified applicants for employment without regard to race, religion, color, national origin, citizenship, sex, gender identity and/or expression, sexual orientation, veteran's status, age or disability.


Unsolicited resumes sent to Verisk, including unsolicited resumes sent to a Verisk business mailing address, fax machine or email address, or directly to Verisk employees, will be considered Verisk property. Verisk will NOT pay a fee for any placement resulting from the receipt of an unsolicited resume.

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