Wildfire Damage Modeling 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
Wildfire has caused significant economic losses in recent years and led to numerous environmental changes including an extended period of drought, loss of vegetation and alteration of soil properties. In this position, you will have an opportunity to directly work on a wildfire modeling that helps insurance companies to assess and manage risks. The role includes developing and enhancing damage estimation by wildfire for insurance portfolios by incorporating knowledge of wildfire mitigation, insurance regulations and state legislation. The candidate will work closely with a team of engineers, scientists, statisticians, and specialists in the research department. Candidate best suited for this position is expected to be highly motivated and detail-oriented team player with sophisticated problem-solving skills.

Main responsibilities
• Analyze wildfire data to build basis for wildfire damage and loss estimation
• Build vulnerability models to assess damage to buildings, infrastructures, and industrial facilities subjected to wildfires as well as wildfire smoke
• Represent Verisk to explain view of risks to technical and non-technical audiences
• Author technical writing for internal and external publications

Qualifications
• Master with 3-4 years of related experience or PhD degree in Agricultural, Civil, Fire Protection, Mechanical, or other relevant engineering disciplines.
• Knowledge of wildfire risk mitigation, wildfire related insurance regulations and state legislation
• Hands-on experience in fire risk assessment or post-fire damage assessment
• Proficient in programming with Python, R or similar. C++ programming capability is a plus
• Demonstrated experience in statistical and probabilistic modeling
• Familiarity of GIS data process, analysis, and visualization
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• Ability to communicate effectively through verbal and written mediums with technical and non-technical audiences

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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