FLOOD**BASE**

Insurance Structuring Data Scientist

Boston, Massachusetts, United States, Brooklyn, New York, United States

Apply

ABOUT FLOOD**BASE**

Floodbase is changing the way businesses and communities adapt to increasing risk of climate change impacts from flooding. Last year, we launched a solution enabling re/insurers and public sector organizations to profitably design, underwrite, and monitor parametric flood insurance products, extending coverage to historically uninsurable locations and risks. Built on nearly a decade of industry-leading and peer-reviewed science, our proprietary solution continuously monitors flooding globally. Floodbase is backed by investors like Lowercarbon Capital, Collaborative Fund, and Floating Point, and trusted by NASA, The UN, Google, FEMA, and more.

As we expand, we are seeking an Insurance Structuring Data Scientist to join our technology team to help us solidify our flood data platform's position as the preferred solution for the parametric flood insurance market. This role will be responsible for developing principles to guide parametric flood policy structuring leveraging their deep understanding of the scientific and technical principles underlying the Floodbase product. As we grow, this role will push our product forward by establishing novel structuring solutions which minimize basis risk and allow more floods to be covered by parametric flood insurance. The role is hybrid, requiring regular in-office presence in Brooklyn, NY or Boston, MA, and will report to the Chief Product & Strategy Officer.

Here's what you will do:

Design parametric flood insurance structures that enable (re)insurer partners to efficiently price submissions

- Present and communicate policy payout structures to insurance carriers
- Develop creative structures that balance the needs to (re)insurers and risk holders.
- Actively support insurance carriers through their underwriting process, resolving any questions about Floodbase methodology, payout structure design, and data.

Design pricing models for new flood insurance programs powered by Floodbase

- Develop a repeatable methodology for the program pricing model that can be easily repeated for submissions

- Establish buy-in and acceptance of pricing model with (re)insurance carriers providing capacity behind the program
- Support the commercial team during client outreach, specifically by supporting clients to evaluate their coverage needs and options

Drive development and adoption of novel techniques to estimate flood risk based on Floodbase data

- Use Floodbase data and models to estimate flood risk for businesses, governments, and communities.
- Statistical analysis of flood frequency and risk profiles, and how they change over time.
- Design and improve methodologies and models for estimating flood risk and event damage with Floodbase data.
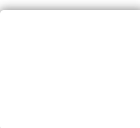
Who You Are

1. Have prior experience with statistical inference in complex dynamical non-stationary systems (especially utilizing extreme value distributions), exploratory data analysis, and data visualization, preferably with data and models associated with climate perils or other hazards using programming languages such as Python or R.
2. A doer; you're ready to roll up your sleeves and are comfortable building methodologies and features within nascent markets with ambiguous requirements.
3. Comfortable working with and communicating to a wide variety of stakeholders from machine learning scientists to software engineers, senior management and external audiences.
4. Bachelor's degree in Engineering, Statistics, Mathematics, Earth Science, Data Science, or related quantitative disciplines (a graduate degree is a plus).
5. Prior experience in the risk transfer domain preferably within NatCat perils such as wildfire, earthquakes, tropical cyclones, severe convective storms and/or floods is a plus.
6. Demonstrated understanding of (re)insurance risk is a plus.
7. Experience working with modern technical data platforms including APIs and other automated data delivery mechanisms is a plus.

Salary range

Floodbase offers competitive salaries with regular reviews and adjustments based on performance and industry standards.

Apply for this job

* indicates a required field

First Name *

Last Name *

Email *

Phone

Resume/CV *

Attach, Dropbox, Google Drive, or enter manually

Accepted file types: pdf, doc, docx, txt, rtf

Cover Letter

Attach, Dropbox, Google Drive, or enter manually

Accepted file types: pdf, doc, docx, txt, rtf

LinkedIn Profile

Website

Voluntary Self-Identification

For government reporting purposes, we ask candidates to respond to the below self-identification survey. Completion of the form is entirely voluntary. Whatever your decision, it will not be considered in the hiring process or thereafter. Any information that you do provide will be recorded and maintained in a confidential file.

As set forth in Floodbase's Equal Employment Opportunity policy, we do not discriminate on the basis of any protected group status under any applicable law.

Gender

Select... ▼

Are you Hispanic/Latino?

Select...   ▼

[Race & Ethnicity Definitions](#)

If you believe you belong to any of the categories of protected veterans listed below, please indicate by making the appropriate selection. As a government contractor subject to the Vietnam Era Veterans Readjustment Assistance Act (VEVRAA), we request this information in order to measure the effectiveness of the outreach and positive recruitment efforts we undertake pursuant to VEVRAA. Classification of protected categories is as follows:

A "disabled veteran" is one of the following: a veteran of the U.S. military, ground, naval or air service who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs; or a person who was discharged or released from active duty because of a service-connected disability.

A "recently separated veteran" means any veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval, or air service.

An "active duty wartime or campaign badge veteran" means a veteran who served on active duty in the U.S. military, ground, naval or air service during a war, or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.

An "Armed forces service medal veteran" means a veteran who, while serving on active duty in the U.S. military, ground, naval or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985.

Veteran Status

Select...   ▼

Voluntary Self-Identification of Disability

Form CC-305   OMB Control Number 1250-0005
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Why are you being asked to complete this form?

We are a federal contractor or subcontractor. The law requires us to provide equal employment opportunity to qualified people with disabilities. We have a goal of having at least 7% of our workers as people with disabilities. The law says we must measure our progress towards this goal. To do this, we must ask applicants and employees if they have a disability or have ever had one. People can become disabled, so we need to ask this question at least every five years.

Completing this form is voluntary, and we hope that you will choose to do so. Your answer is confidential. No one who makes hiring decisions will see it. Your decision to complete the form and your answer will not harm you in any way. If you want to learn more about the law or this form, visit the U.S. Department of Labor's Office of Federal Contract Compliance Programs (OFCCP) website at www.dol.gov/ofccp.

How do you know if you have a disability?

A disability is a condition that substantially limits one or more of your "major life activities." If you have or have ever had such a condition, you are a person with a disability. **Disabilities include, but are not limited to:**

- Alcohol or other substance use disorder (not currently using drugs illegally)
- Autoimmune disorder, for example, lupus, fibromyalgia, rheumatoid arthritis, HIV/AIDS
- Blind or low vision
- Cancer (past or present)
- Cardiovascular or heart disease
- Celiac disease
- Cerebral palsy
- Deaf or serious difficulty hearing
- Diabetes
- Disfigurement, for example, disfigurement caused by burns, wounds, accidents, or congenital disorders
- Epilepsy or other seizure disorder
- Gastrointestinal disorders, for example, Crohn's Disease, irritable bowel syndrome
- Intellectual or developmental disability
- Mental health conditions, for example, depression, bipolar disorder, anxiety disorder, schizophrenia, PTSD
- Missing limbs or partially missing limbs
- Mobility impairment, benefiting from the use of a wheelchair, scooter, walker, leg brace(s) and/or other supports
- Nervous system condition, for example, migraine headaches, Parkinson's disease, multiple sclerosis (MS)
- Neurodivergence, for example, attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder, dyslexia, dyspraxia, other learning disabilities
- Partial or complete paralysis (any cause)
- Pulmonary or respiratory conditions, for example, tuberculosis, asthma, emphysema
- Short stature (dwarfism)
- Traumatic brain injury

Disability Status

Select... ▼

PUBLIC BURDEN STATEMENT: According to the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. This survey should take about 5 minutes to complete.

Submit application