

## **ABOUT US**

Mitiga Solutions is a spin-off from the Barcelona Supercomputing Center – Centro Nacional de Supercomputación (BSC-CNS). We provide commercial solutions capable to evaluate and mitigate the impact of natural hazards, improving the management of risk for clients across multiple industries. We have a dynamic and collaborative workplace that provides an ideal environment where people can be challenged and inspired every single day.

## **CORE RESPONSIBILITIES**

We are looking for individuals who are keen on applying their natural hazard expertise and excellent statistical knowledge to develop innovative and disruptive risk assessment solutions for our clients in the diverse insurance world. With your superior analytical skills and your ability to solve challenges by thinking outside of the box, you will fit perfectly in our international and dynamic team that uses the latest developments in data science and AI. We believe the future is not going to be predicted by looking at the past. Thus, we are combining state of the art climate science research and data with optimized high performance computing algorithms to build models that forecast the impact of extreme weather events with the intention to make the world more resilient against natural hazards.

Your role as a Cat Modeler will include:

- You will develop deterministic and probabilistic natural catastrophe (NatCat) models for your peril of expertise, enhanced with new climate modelling and observational capabilities, as well as other emerging new technologies
- You support the development of new climate insurance products and service offerings as well as leveraging these forward-looking risk assessment tools for integration of physical climate risk
- You actively contribute to new solutions, for example, by providing analytics and prototypes proofing the concept of our ideas, or by bringing in new insights based on emerging features in the world of NatCat prevention
- You work actively with the software development and science teams during the implementation of proposed methods
- You collaborate with team members and external partners to implement new solutions from the prototype stage all the way to commercial production
- By Contributing to international research proposals and projects you can expect to be at the forefront of innovation and technology

## SKILLS AND EXPECTATIONS

This position will be accepted under **Tecniospring Talent Program** promoted by ACCIÓ and the candidate must meet the requirements specified for the program listed above:

- PhD or Master's degree in a quantitative field such as natural sciences, applied mathematics, engineering or computer science
- You must not have lived or engaged in your main activity (work, study) in Spain for more than 12 months from 16th November 2017 and 16th November 2020"

Other desirable skills:

- You have several years of experience in catastrophe modelling research and developing NatCat models
- Experience in a corporate or start-up research role for a number of years, insurance industry experience is a plus
- You bring a sound background in data analytics and analytical problem-solving skills, including applied knowledge of data science and AI.
- You can code in various languages (e.g. Python, R, MATLAB, FORTRAN, C++) and feel at ease with large and sometimes unstructured data sets
- You are creative, showing a high degree of own initiative, high-energy and a commercial attitude
- You have experience in using open-source Geographical Information Systems (GIS), such as QGIS, gvSIG, GRASS; knowledge of GDAL, PostgreSQL/PostGIS is a plus
- You have a profound overview of emergent topics (new players, new data sets, new solutions) in the NatCat and InsurTech space and are keen to contribute to Mitiga's reservoir of expert knowledge through active internal communication and knowledge share sessions
- You are eager to develop and implement new ideas with a focus on supporting our clients with our next first-to-market and innovative insurance solution

## WE OFFER

- Joining a young, dynamic, multicultural and entrepreneurial team.
- 2 years contract and possibility to extend it.
- Attractive compensation package.
- Mitiga is an equal opportunity employer.

## APPLICATION:

To apply for this position, please email your CV with a cover letter to [hr@mitigasolutions.com](mailto:hr@mitigasolutions.com).