

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 and social 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 computational expertise, have passion for natural hazards and excellent statistical knowledge to develop innovative and disruptive risk assessment solutions for our clients in the diverse insurance world, from a perspective of the design and development of top-quality software to be run in HPC environments.

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 an **HPC Wildfire Analyst** will include:

- You will develop deterministic and probabilistic wildfire risk models, potentially adopted by other perils of expertise in our Catastrophe Risk framework
- You support the development of new wildfire and climate insurance products and service offerings as well as leveraging these forward-looking risk assessment tools for integration of other perils
- You will develop pieces of software to be run in High-Performance Computing environments
- You actively contribute to new solutions, for example, by providing analytics and prototypes proofing the concept of our ideas
- 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

HARD SKILLS

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"

Also, the following skills will be **desired** to fulfill the position:

- You have fundamentals (proven experience is a valuable plus) in the design/development of physical/geophysical models
- Experience in a corporate or start-up research role for a number of years, insurance industry experience is a plus
- You have experience in developing and running software in HPC/Supercomputing/Cloud computing environments
- 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, Javascript, Go, C++), you learn quickly, 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. This is a valuable plus
- 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

SOFT SKILLS

- You love challenging and demanding endeavors
- Work collaboratively with design team to understand end user requirements to provide technical solutions and for the implementation of new software features.
- Deals well with ambiguity.
- Ability to take ownership and work independently to manage projects through to completion.
- Detail-orientation, thoroughness, reliability, and ability to prioritize required.
- Proficiency in English is a must. Good handling of Spanish required.
- Maintain an openness to feedback (positive as well as areas for improvement).
- Maintain strong discretion with regard to the content of the job and the profile of the office.

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.