



**EMPOWERMENT.
RESILIENCE.
DATA-DRIVEN.**

THE PUBLIC SECTOR CHALLENGE

Studying and understanding earthquake hazard and risk even in countries considered to be seismically safe, is important because it can help governments in land use zoning, urban planning, improving building codes and reducing disaster risk especially in areas with high population and building densities. In most cases, this task requires collaborative partnerships with scientific and research institutions due to the complexity and extent of the undertaking.

GEM

GLOBAL EARTHQUAKE MODEL FOUNDATION
a world resilient to earthquakes

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“

GEM will provide communities with a great opportunity to strengthen their capacity to respond to disasters, invest in disaster reduction and therefore make themselves stronger and more resilient.

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Public Sponsor

(Reserved space for partner quote)

JOIN US

Support high quality data and tools sharing on free, open and transparent platform

OUR SOLUTIONS

The Global Earthquake Model Foundation (GEM) offers comprehensive approach to seismic hazard and risk assessment - from hazard, exposure, vulnerability and risk modeling to our pioneering efforts in social vulnerability and recovery. GEM is the only non-profit organization in the world that offers this complete range of high quality services to serve the public good in a collaborative, credible, open and transparent manner.

OUR TRACK RECORD

To date, using our state-of-the-art hazard and risk assessment software - the OpenQuake (OQ) engine - GEM has successfully collaborated with the governments of: **Colombia, Italy, Canada-British Columbia, New Zealand, Switzerland and Australia**. The The OQ engines is FREE and released under the GNU Affero Public License 3) and accessible from GEM's websites:

www.globalquakemodel.org and **platform.openquake.org**.

BENEFITS

- Be part of a global team in shaping the direction of global earthquake modeling
Connect with public and private participants from around the world
- Be at the forefront of developing GEM's state-of-the-art earthquake hazard and risk assessment software: the OpenQuake engine
- Contribute to maintenance and improvement of GEM products for public good
- Demonstrates corporate social responsibility
- Use of the GEM brand and logo on proposal (official GEM partner badge)
- Gain capacity building experience in developing countries, training modules
- Access to global databases, open software and tools
- Global standards for data, models and tools
- Be part of a network of international experts in hazard, risk and financial modelling

SERVICES

- National hazard modelling
- Exposure and vulnerability modelling
- Extension of in-house capability for hazard and risk assessment using the OpenQuake engine software
- Identification of areas of higher risk to inform disaster risk reduction
- Development of earthquake scenarios for the development of emergency response plans
- Assessment of urban earthquake risk
Major infrastructure systems risk
- Community vulnerability and resilience
- Recovery modelling