Course on seismic hazard and risk with the use of the OpenQuake engine (9-12 June 2025, Camerino)

Venue: Department of Geology (Via Gentile III da Varano 7, 62032 Camerino, MC)

Programme

9 June 2025 9:00-17:30 (Lunch Break 13:00-14:00)	*Introduction to PSHA and the OpenQuake engine* • PSHA introduction • OQ installation • Introduction to OpenQuake
10 June 2025 9:00-17:30 (Lunch Break 13:00-14:00)	*Running PSHA in OpenQuake* • OQ introduction (continued) • PSHA with OQ
11 June 2025 9:00-17:30 (Lunch Break 13:00-14:00)	*Further OQ examples* • OQ PSHA model example • OQ scenario example
12 June 2025 9:00-13:30	• Tools for preparing a hazard model (OQ-mbtk)

Objectives of the 30 hour course:

- Develop an understanding of Probabilistic Seismic Hazard Analysis (PSHA)

- Understand the necessary inputs for PSHA and how these are combined

- Understand how PSHA models are implemented in OpenQuake (OQ)

- Learn how to run PSHA in OQ

Lecturers: Dr. Kirsty Bayliss and Dr. Christopher Brooks (Global Earthquake Model Foundation)

The course is free of charge for students in the REDI PhD programme.
10 positions for REDI PhD students are available and priority is given based on the order of registration.

To register, send an email to flavio.stimilli@unicam.it by April 15 2025