

OpenMC in-person course 2026

[Register for the event](#)

Practical information

Dates: 23-27 November 2026

Location: NEA Headquarters in Paris, France

Minimum enrollment: 12 participants

Maximum enrollment: 20 participants

Registration fee: 2000 EUR

Registration deadline: 26 October 2026

Contact: hedvig.nahon@oecd-nea.org with copy to programs@oecd-nea.org

About the OpenMC course

This 4,5-day interactive course is intended to give students a thorough introduction to the usage and application of the OpenMC Monte Carlo code. During the course students will work hand-in-hand with the instructors to develop models, run the code and explore a wide range of features.

Topics to be covered include:

- **Geometry:** constructive solid geometry; surfaces, cells, universes, lattices, CAD-based geometry
- **Sources:** statistical distributions, source options
- **Tallies:** filters, scores, and tallies; cell instances; meshes; triggers
- **Post-processing:** working with statepoint files; Pandas dataframes; tally arithmetic
- **Nuclear data:** cross-section configuration; introspection of data; automated data generation; cross-section visualisation
- **Depletion:** depletion operators; time integration methods; activation calculations
- **Multigroup cross-section generation:** automated generation of MGXS over spatial domains; group structures; MGXS libraries
- **Visualisation:** Geometry and tally visualisation with the OpenMC plotter application
- **Coupling:** C/C++ API, multiphysics calculation

The class will be based on the latest version of OpenMC as of the start of the class. During the course, students will be provided with a cloud-based Jupyter notebook interface accessible through any web browser. It is not required to have OpenMC installed on your laptop; however, students are welcome to install OpenMC in advance.

Students are expected to have basic knowledge and familiarity with Python 3. Resources for learning basic Python will be provided in advance.

Students will need to bring a laptop to participate in the course.

[More information about the OpenMC Monte Carlo Code.](#)

When?

23 - 27 November 2026
NEA headquarters, Paris

Contact

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