# FUDGE/(MC)GIDI/GNDS introductory course

Register for the event

**Date:** 6-9 October 2026, 16:00-21:00 CET (Paris time)
**Place:** Online training course
**Minimum enrollment:** 8 participants
**Maximum enrollment:** 20 participants
**Course fee:** 50 EUR
**Registration deadline:** 18 September 2026
**Contact**: hedvig.nahon@oecd-nea.org
with a copy to programs@oecd-nea.org

This event consists of four online classes with a discussion session following each topic. Time is reserved for providing individual support to participants.

This training course is taught in English by the FUDGE/(MC)GIDI/GNDS development team from LLNL.

For any questions about this course, please send an email to hedvig.nahon@oecd-nea.org with a copy to programs@oecd-nea.org

Download the agenda
332.92 KB

## Programme

This four-day introductory class is intended to give nuclear data evaluators and users an introduction to using the open-source codes FUDGE and GIDIplus (available from https://github.com/LLNL/fudge and https://github.com/LLNL/gidiplus) to generate and use nuclear data in the Generalised Nuclear Database Structure or GNDS.

FUDGE is a code (primarily written in Python) developed by Lawrence Livermore National Laboratory (LLNL) to manage generating, checking, visualising, processing, and using nuclear data libraries. The name stands for "For Updating Data and Generating Evaluations". It is primarily intended for use with data stored in Generalised Nuclear Database Structure (GNDS) files.

GIDIplus is a C++ API that supports reading and writing GNDS-formatted nuclear data. It also supports Monte Carlo sampling.

FUDGE is designed as a tool to support nuclear data evaluators, processors and users while GIDIplus is designed mainly for use by radiation transport codes.

During the course, FUDGE/GIDIplus developers will be available to discuss individual questions and problems. Details on more advanced topics will be discussed at the request of participants.

**The class is based on the latest versions of FUDGE and GIDIplus**

**Topics include:**

- an overview of how data are organised in GNDS files;
- a description of the FUDGE code including installation and basic use;
- an explanation of various scripts released with FUDGE to aid evaluators and users;
- a demonstration of using FUDGE to access, check and visualise GNDS data;
- special topic on translating ENDF-6 into GNDS;
- a demonstration of using FUDGE to generate GNDS-formatted evaluations;
- explanation of the "processProtare" script, used to generate processed data libraries;
  using "map" files to assemble GNDS files into a library; and
- an introduction to using GIDIplus to access and sample GNDS nuclear data.

*Note aux participants français : l'OCDE/NEA n'est pas un centre de formation. Pour cette raison, les frais d'inscriptions sont dus avant le début de la prestation et il ne sera pas établi de convention de stage.*

# When?

**6 - 9 October 2026**
Online training course

# Contact

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# Email

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