

## **Development & optimisation of computational codes on supercomputers**

We will give an overview of the programming environment of the Okeanos system (compilers, libraries, tools). We will also describe the basics of parallel computing. Students will learn by examples how to develop and optimise parallel programs with tools like Message Passing Interface (MPI) and OpenMP. We will also learn how to compile MPI/OpenMP programs written in C/C++ or Fortran programming languages.

**Recommended prerequisites:** *a general knowledge of the Linux operating system (user commands), basic knowledge of C/C++ or Fortran programming languages is required*