

## Application optimization for GPU acceleration



As part of driving the BSC/UPC NVIDIA GPU Center of Excellence, we provide GPU Computing optimization/development services to the BSC community. We are involved in developing /optimizing GPU acceleration in a variety of projects from different departments at BSC.

### Summary

Right now we are involved in developing/optimizing GPU acceleration for the following applications:

- [EPEEC Applications:](#)
  - AVBP
  - DIOGENeS
  - Osiris
  - Quantum Espresso
  - SMURFF

In the past we were involved in developing/optimizing GPU acceleration for the following applications:

- [ALYA Multiphysics](#)

- [PELE](#)
- [Human Brain Project](#)
- [CaixaBank - Cognitive Computing Application to Financial Innovation](#)
- [Barcelona Subsurface Imaging Tools \(Repsol-BSC Research Center\)](#)

## Objectives

To provide GPU Computing optimization/development services to the BSC community.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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