CRESTA brings together four of Europe’s leading supercomputing centres, with one of the world’s major equipment vendors, two of Europe’s leading programming tools providers and six application and problem owners to explore how the exaflop challenge can be met.

The project has two integrated strands: one focused on enabling a key set of co-design applications for exascale, the other focused on building and exploring appropriate systemware for exascale platforms.

The six co-design vehicles represent an exceptional group of applications used by European academia and industry to solve critical grand challenge issues, including: biomolecular systems, fusion energy, the virtual physiological human, numerical weather prediction and engineering.

Partners:

- Åbo Akademi University (ABO) (Finland)
- Allinea Software (UK)
- Cray UK Limited (CRAY) (UK)
- DLR (Germany)
- Ecole Centrale Paris (ECP) (FRANCE)
- EPCC, The University of Edinburgh (UK)
- Kungliga Tekniska Högskolan (KTH) (Sweden)
- The Center for Information Services and High Performance Computing (ZIH) (Germany)
- The European Centre for Medium-Range Weather Forecasts (UK)
- The University of Jyvaskyla, Department of Physics (Finland)
- High Performance Computing Center Stuttgart (Germany)
- Tieteen Tietotekniikan Keskus OY (CSC)’s IT Center For Science LTD. (Finland)
- University College London (UK)