INGV calls for two Technologist positions in High Performance Computing (HPC) in the framework of ChEESE project closed

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The INGV (the Italian National Institute for Geophysics and Volcanology) has just closed two calls for two Technologist positions (the technological equivalent of a Researcher) in High Performance Computing (HPC) in the framework of the H2020 ChEESE project (http://www.cheese-coe.eu), the recently funded Center of Excellence in Exascale for Solid Earth.

The first one is within the Physical, Computational, and Statistical Volcanology group in the INGV-Bologna branch, and has the following objectives:

- Development of new statistical methods for Probabilistic Volcanic Hazard Assessment (PVHA) for tephra fallout using the dispersal model Fall3D-8.0 on HPC machines
- Work in collaboration with HPC experts in three of the European Tier0 HPC centres (BSC - Spain, CINECA - Italy, HLRS - Germany) in developing Python workflows with INGV researchers in Statistical Methods, PVHA, Physical Volcanology and Computational Fluid Dynamics
- Management of HPC workflows (production, pre- and post-processing, data storage, analysis and visualization) and interaction with other ChEESE tasks

Duration of the contract: 12 months, renewable up to 30 months
Starting date: June 16th, 2019 (negotiable)

The second one is within the Modeling and Computational Volcanology group in the INGV-Pisa branch and has the following goals:

- HPC optimization and enabling of ASHEE, a Finite-Volumes CFD solver based on OpenFOAM
- Manage HPC workflows (production, pre and post-processing, data storage, analysis and visualization)
- Contribute to the development of a Pilot Demonstrator for integration of 3D volcanic plume simulation into probabilistic hazard tools.

Duration of the contract: 24 months
Starting date: June 16th, 2019 (negotiable)