

**** PhD Bologna on "A mathematical-physics approach to improve energy efficiency in classical and quantum machine learning" ****

The Department of Mathematics of the University of Bologna has an opening for a PhD Scholarship on the project "A mathematical-physics approach to improve energy efficiency in classical and quantum machine learning".

The aim of the project is to reduce the computational complexity of machine learning devices, eliminate the enormous redundancy they come with, and drastically cut their energy consumption. The answer requires a paramount detailed knowledge on the principles those machines work on, nowadays still largely lacking. The statistical mechanics approach to the Boltzmann Machines is one of the major and most promising paths toward their clarification. The project plan to use one of the methods of coming from the theory of equilibrium, non-equilibrium, classical and quantum.

The call for applications can be found at <https://www.unibo.it/en/teaching/phd/new-call-for-applications-for-phd-additional-scholarships-on-innovation-and-green-topics,-funded-by-FSE-REACT-EU---PON-ricerca-e-Innovazione-programme>

THE DEADLINE FOR THE APPLICATION IS OCTOBER 20

The call requires the candidates to get the MSc degree by October 31.