Take part in the TREX e-Summer School on Quantum Monte Carlo with TurboRVB

"TurboRVB tutorials and applications"

2nd June 2021, Italy

On 12-16 July 2021, TREX is organising a joint e-summer school in partnership with the International School for Advanced Studies (SISSA, Italy). TREX is the targeted Center of Excellence for the community of quantum chemistry funded by the European Commission. It aims to develop and apply high-performance software solutions for quantum mechanical simulations at the exascale via efficient and portable QMC libraries, and to feed a stronger QMC community of users.

Apply for the TREX e-Summer School on TurboRVB

The TREX e-Summer School represents a unique opportunity to provide a comprehensive introduction to QMC methods without any prerequisite. During this e-School, which will run as a virtual event from 12-16 July 2021, students will be using TurboRVB for QMC applications and tutorials. TurboRVB is a computational package for ab initio Quantum Monte Carlo (QMC) simulations of both molecular and bulk electronic systems. The code implements two types of well-established QMC algorithms: Variational Monte Carlo (VMC), and Diffusion Monte Carlo in its robust and efficient lattice regularized variant.

The TREX e-summer school offers an inclusive platform for all stakeholders to share results and innovations with TREX and the community of students, researchers, HPC actors, and the high-tech industry. Interested HPC experts and researchers are invited to submit their application by July the 5th and become an active member of the e-school.

When applying you'll be requested to provide personal information and details of a referee that can confirm your application. If your application is successful, the referee will be contacted to confirm your profile and experience.

TREX e-School poster contest

A call for posters also provides a unique opportunity to present results and ongoing activities at the TREX e-School and compete for the best poster competition! Poster applications will be selected by the e-School programme committee based on their relevance to the workshop topics and their potential impact on the discussion.

Important dates:

- [Registration](#) closed on 5 July 2021, 17:00 CEST
- [Call for posters](#) - deadline 5 July 2021, 17:00 CEST

[Apply now!](#)

About TREX

TREX - Targeting Real chemical accuracy at the EXascale project has received funding from the European Union's Horizon 2020 - Research and Innovation program - under grant agreement no. 952165. Led by the [University of Twente](#) (Netherlands), the TREX consortium partners include [CNRS](#) (France), [SISSA](#) (Italy), [CINECA](#) (Italy), [KTH Royal Institute of Technology](#) (Sweden), [Max-Planck-Gesellschaft](#) (Germany), [Université de Versailles](#) (France), [Megware](#) (Germany), [Universitat Wien](#) (Austria), [Politechnika Lodzka](#) (Poland), [Trust-IT Services](#) (Italy) and [Institute of Physics of the Slovak Academy of Sciences](#) (Slovakia).

For more information about TREX, or to contact the project, you are invited to engage through a variety of social media channels:

[www.trex-coe.eu](#) I [@TREX-EU](#) I [LinkedIn/company/TREX Project](#)

Press contact goes here for any information, please write to [info@trex-coe.eu](#)

Keywords: High-Performance Computing (HPC), Quantum Monte Carlo, quantum chemistry, center of excellence, chemistry, exascale, materials science