



ONLINE: PRACE Course: Advanced Fortran Topics

22 – 25 September 2020

PRACE Survey



- Please fill out the PRACE online survey under



<https://tinyurl.com/survey-advanced-fortran>



- This helps us and PRACE to
 - increase the quality of the courses,
 - design the future training programme at LRZ and in Europe according to your needs and wishes,
 - get future funding for training events.

Upcoming LRZ Courses and Workshops



- **Upcoming Courses at LRZ:**

- [ONLINE: Introduction to LRZ HPC Systems with Focus on CFD Workflows](#)

- Wednesday, October 07, 2020, 14:00-16:30 CEST

- [ONLINE: Introduction to ANSYS Fluid Dynamics on LRZ HPC Systems](#)

- Monday, October 12 - Monday, December 14, 2020, 10:00-12:00 and 14:00-16:00 CET

- [ONLINE: Advanced C++ with Focus on Software Engineering](#)

- Wednesday, November 18 - Friday, November 20, 2020, 10:00 - 17:00 CET

- [ONLINE: Molecular Modeling with Schrödinger-Suite Workshop](#)

- Wednesday, December 02- Thursday, December 03, 2019

- [ONLINE: PRACE Course: Node-Level Performance Engineering](#)

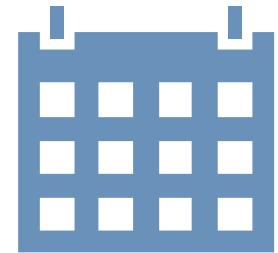
- Wednesday, Dec 2, 2020 10:00 - Friday, Dec 4, 2020 17:00

- [ONLINE: Introduction to LRZ HPC Systems with Focus on CFD Workflows](#)

- Wednesday, December 09, 2020, 14:00-16:30 CET

- **Information on further HPC courses:**

- by the Partnership for Advanced Computing in Europe (PRACE): <http://www.training.prace-ri.eu/>
 - by LRZ: <http://www.lrz.de/services/compute/courses/>
 - by the Gauss Centre of Supercomputing (GCS): <http://www.gauss-centre.eu/training>
 - by German Centres (collected by the Gauß-Allianz): <https://hpc-calendar.gauss-allianz.de/>



PRACE Training



LRZ as part of the Gauss Centre for Supercomputing (GCS) and IT4Innovations belong to the 14 **PRACE Training Centres** that started in 2012-2017-2020:

- Barcelona Supercomputing Center (Spain)
- CINECA Consorzio Interuniversitario (Italy)
- CSC – IT Center for Science Ltd (Finland)
- EPCC at the University of Edinburgh (UK)
- Gauss Centre for Supercomputing (Germany)
- Maison de la Simulation (France)
- GRNET – Greek Research and Technology Network (Greece)
- ICHEC – Irish Centre for High-End Computing (Ireland)
- IT4I – National Supercomputing Center VSB Technical University of Ostrava (Czech Republic)
- SURFsara (The Netherlands)
- TU Wien – VSC Research Center (Austria)
- University ANTWERPEN – VSC & CÉCI (Belgium)
- University of Ljubljana – HPC Center Slovenia (Slovenia)
- Swedish National Infrastructure for Computing (SNIC) (Sweden)



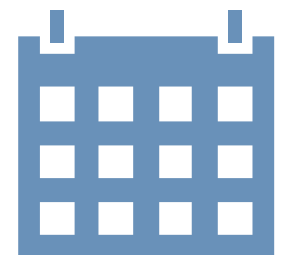
Mission: Serve as **European hubs and key drivers of advanced high-quality training** for researchers working in the computational sciences.

<http://www.training.prace-ri.eu/>

Upcoming PRACE Courses and Workshops



- 29 Oct [Data Management with iRODS and Compute @SURFsara](#)
- 26 Oct - 28 Oct [\[MOOC\] Tools and techniques to quickly improve performances of HPC applications in Solid Earth @ Cineca](#)
- 21 Oct - 23 Oct [\[POSTPONED\] Introduction to Deep Learning Models @ JSC](#)
- 21 Oct - 23 Oct [\[ONLINE\] ChEESE Advanced Training on HPC for Computational Seismology @ HLRS](#)
- 19 Oct - 20 Oct [Introduction to ScaLAPACK and MAGMA libraries @ MdIS/Ildris](#)
- 13 Oct - 22 Oct [\[ONLINE\] Parallel Programming Workshop @ BSC](#)
- 12 Oct - 13 Oct [\[POSTPONED\] Performance portability for GPU application using high-level programming approaches with Kokkos @ MdIS/Ildris](#)
- 12 Oct - 16 Oct [\[ONLINE\] Parallel Programming Workshop \(MPI, OpenMP and advanced topics\) @ HLRS](#)
- 12 Oct - 16 Oct [\[ONLINE\] Parallel Programming Workshop \(Train the Trainer\) @ HLRS](#)
- 06 Oct - 15 Oct [Shared-memory programming with OpenMP @ EPCC Online](#)
- 05 Oct - 08 Oct [Modern Scientific C++ @ MdIS/Ildris](#)
- 05 Oct - 09 Oct [\[ONLINE\] School on Scientific Data Analytics and Deep Learning @ Cineca](#)



PRACE Courses 2020 / 2021 @ LRZ



- **Advanced Fortran Topics**
4 days, 3 LRZ lecturers (Sep 2021)
- **Node-Level Performance Engineering**
2 days, 2 RRZE lecturers (Dec 2020)
- **OpenMP Programming Workshop**
3-days, members of the OpenMP ARB (Feb 2021)
- **Advanced Topics in High Performance Computing**
4-days, 3 LRZ + 2 RRZE lecturers (Mar 2021)
- **Introduction to hybrid programming in HPC**
2-day, 1 HLRS & 1 RRZE lecturers & 2 VSC lecturers (Apr 2021)
- **VI-HPS Tuning Workshop**
5-days, 15 lecturers (May 2021)
- **HPC Code Optimisation Workshop**
3 days, 4 LRZ, 1 RRZE + 4 Intel lecturer (Jun 2021)
- **Deep Learning and GPU Programming Workshop**
4 days, 4 LRZ NVIDIA certified lecturers, in collaboration with NVIDIA Deep Learning Institute (DLI) (July 2021 by LRZ)



Mailing Lists



- Subscribe via <https://lists.lrz.de/mailman/listinfo/aktuell> to get regular information on events, courses, workshops, positions etc. at LRZ.
- Subscribe via <https://prace-ri.eu/subscribe-to-prace-mailing-lists/> to the PRACE training mailing list, to get regular information on PRACE training.



Thank you!
We hope to see you again in a future training event!