

# LUMI



## **What else?**

**A brief discussion about what else LUST offers, what is not covered in this course, and how you can learn about it.**

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# What did we not cover?

- For several topics, this course gave only a brief overview with many details omitted
- General topics not covered at all:
  - Guidelines for writing HPC-friendly code
  - Debugging and profiling tools
  - Developing (portable) code for GPU and optimising that code
- And it is not a very domain-specific course (well, the domain is “LUMI supercomputer” and not CFD or molecular dynamics or AI)

# LUST trainings

- Introductory training: Basically this training...
- Advanced training and “Performance Analysis and Optimisation workshop”  
Oriented towards traditional HPC:
  - Mostly given by HPE and AMD experts
  - Covers also debugging and profiling tools, and a bit about writing HPC-friendly code
  - Some topics of this course covered in more depth
  - On-site recommended for contact with HPE and AMD experts
- AI on LUMI: Workshop-style training on AI
  - Next edition in June in Tromsø
  - On-site necessary for the full experience as we cannot properly assist with remote coursework

# Other trainings

- PRACE coordination is no more, EuroHPC is starting up [EVITA](#)
  - For now overview on the [HPC in Europe Portal](#)
  - Courses about tools, about programming paradigms, ...
- AMD provides trainings in Europe from time to time
  - Excellent materials from a [course at ENCCS](#), with [recordings on YouTube](#)
- LUMI consortium countries also organise courses from time to time
  - E.g., in January 2024 there was a GROMACS course at CSC in collaboration with [BioExcell](#) and the EuroHPC national competence centres of Finland and Sweden
  - Some of those courses are also announced on [the LUMI web site](#)
- AI: The “AI Factories” and MINERVA should provide most of these trainings
  - [LUMI AI Factory is building up its trainings](#), but the basic LUMI AI training will be done with LUST
  - MINERVA so far has done a [number of webinars](#) but no full training

# Other LUST services

- One or two “hackathons” per year: No specific theme, but for optimisation of your code with the help of experts from HPE, AMD and LUST
  - One week, so a clear goal is needed
  - Next one May in Antwerp (but projects already selected)
- Porting call: When resources allow, we also launch a call for assistance in porting code
  - Assistance = you guarantee availability of people in the time window
  - Help from experts at HPE, AMD and LUST
  - Selection partly based on potential impact of the code
- Monthly virtual user coffee break
  - Usually last Wednesday of the month
  - Sometimes with a short presentation
  - Experts from HPE and AMD also present

# Other support services

- Check with your local organisation as some have support programs
- EPICURE program ([epicure-hpc.eu](http://epicure-hpc.eu))
  - Larger support projects: 1-3 personmonths from EPICURE, and expect a similar effort from the applicant during that period
  - Need a EuroHPC project, but a development project is enough
  - Can go from optimising a complex software installation, to help with optimising and porting your own codes for EuroHPC supercomputers
  - Don't expect domain knowledge about every science domain and all software packages!
- Something coming up from MINERVA and/or the AI factories?

# LUMI web sites

- Main LUMI web site at [lumi-supercomputer.eu](https://lumi-supercomputer.eu)
  - Links to information on obtaining an allocation and to training events
- Documentation split in three:
  - [docs.lumi-supercomputer.eu](https://docs.lumi-supercomputer.eu): Everything except documentation that is very specific to a single package
  - [LUMI Software Library](https://lumi-supercomputer.github.io) at [lumi-supercomputer.github.io](https://lumi-supercomputer.github.io): Package-specific information for all software for which we have some support
  - [LUMI AI Guide](https://github.com/Lumi-supercomputer/LUMI-AI-Guide) at [github.com/Lumi-supercomputer/LUMI-AI-Guide](https://github.com/Lumi-supercomputer/LUMI-AI-Guide)
- [LUMI training materials](https://lumi-supercomputer.github.io) at [lumi-supercomputer.github.io](https://lumi-supercomputer.github.io): Archive of past LUMI trainings and user coffee break presentations
  - Not all materials online, some only available on LUMI
- Some local organisations have documentation that is relevant to LUMI
  - We link to it if it is a real addition to our materials and we know about it

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**The End...**

