



CERN openlab's summer student programme





















And the CERN Webfest!

Andrew Purcell, CERN openlab communications officer

On behalf of the CERN openlab management team

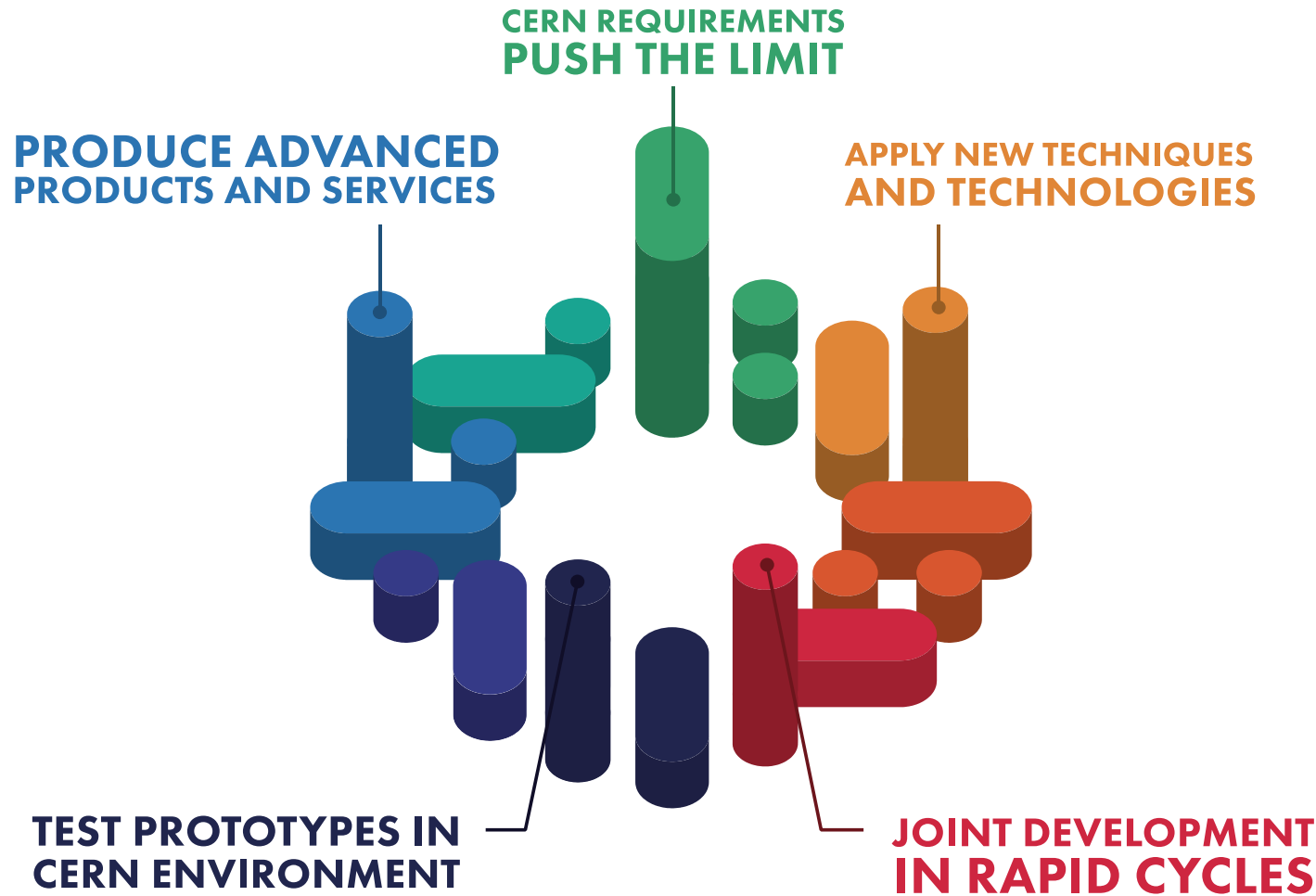
COLLABORATION MEMBERS

Supporting the LHC research community since 2001

PARTNERS	CONTRIBUTORS	ASSOCIATES	RESEARCH	
			 Istituto Nazionale di Fisica Nucleare	
			 Technische Universiteit Eindhoven University of Technology	
				
				 knowledge exchange for smart decisions
				

A VIRTUOUS CYCLE

Tackling tomorrow's computing challenges today



Four main pillars

Exascale technologies

Artificial intelligence

Quantum computing

Multi-science collaborations

EDUCATION AND TRAINING

Training tomorrow's leaders in ICT

CERN openlab runs a **highly competitive** summer-student programme

~ 28 students selected from around 1141 applicants

Most dedicated CERN openlab personnel are **young, talented 'fellows'**.

Receive hands-on experience with cutting-edge technologies

Workshops, training courses, and other initiatives run with our collaborators.

Competitions, challenges, online training, hackathons.

Experts from industry and research give lectures.

Participate in events both inside and outside CERN.



LECTURE SERIES

All lectures are open to all summer students

Full schedule

[https://indico.cern.ch/category/14019/
openlab.cern](https://indico.cern.ch/category/14019/openlab.cern)

Monday 5 July, 16:00 → 17:30 : [Tackling Computing Challenges at CERN](#) **Maria Girone** ✓

Wednesday 7 July, 16:00 → 17:30 : [DAQ-filtering data from 1PB/s to 600MSs/s](#) **Flavio Pisani** ✓

Thursday 8 July, 16:00 → 18:00 : [Docker, Kubernetes and other Cloud Native Technologies](#) **Ricardo Rocha, Spyridon Trigazis** ✓

Friday 9 July, 16:00 → 18:00 : [Best practices: the theoretical and practical underpinnings of writing code that's less bad](#) **Axel Naumann** ✓

Monday 12 July, 16:00 → 17:30 : [Computer security in 2021](#) **Stefan Lueders**

Tuesday 13 July, 16:00 → 17:30 : [Introduction to Machine Learning](#) **Michael Aaron Kagan** ✓

Thursday 14 July, 16:00 → 17:30 : [Quantum Computing for High Energy Physics Applications](#) **Sofia Vallecorsa** ✓

Monday 19 July, 16:00 → 17:30 : [Intro to High performance Computing with GPUs](#) **Ahmad Siar Hesam**

Tuesday 20 July, 16:00 → 17:30 : [Deep Learning deep dive](#) **Sofia Vallecorsa** ✓

Thursday 22 July, 16:00 → 17:30 : [CERN Science for Open Data](#) **Anna Ferrari** ✓

Friday 23 July, 16:00 → 17:30 : [How to build a large-scale agent -based simulator](#) **Lukas Breitwieser** ✓

Members of public can follow any lecture marked with '✓' via webcast.

Plus, there is a [special information session](#) for CERN openlab students on Monday 5 July, 15:00 → 17:00.

Webfest 2021

Our annual hackathon since 2012



Dates: Weekend of 21-22 August



Theme : Science, society, sustainability



Website: <https://webfest.cern>



Facebook group: <http://cern.ch/go/7Vpg>



Location : Will be held online for the second year



Sign up here: <https://indi.to/e-webfest2021>

QUESTIONS?

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openlab.cern

