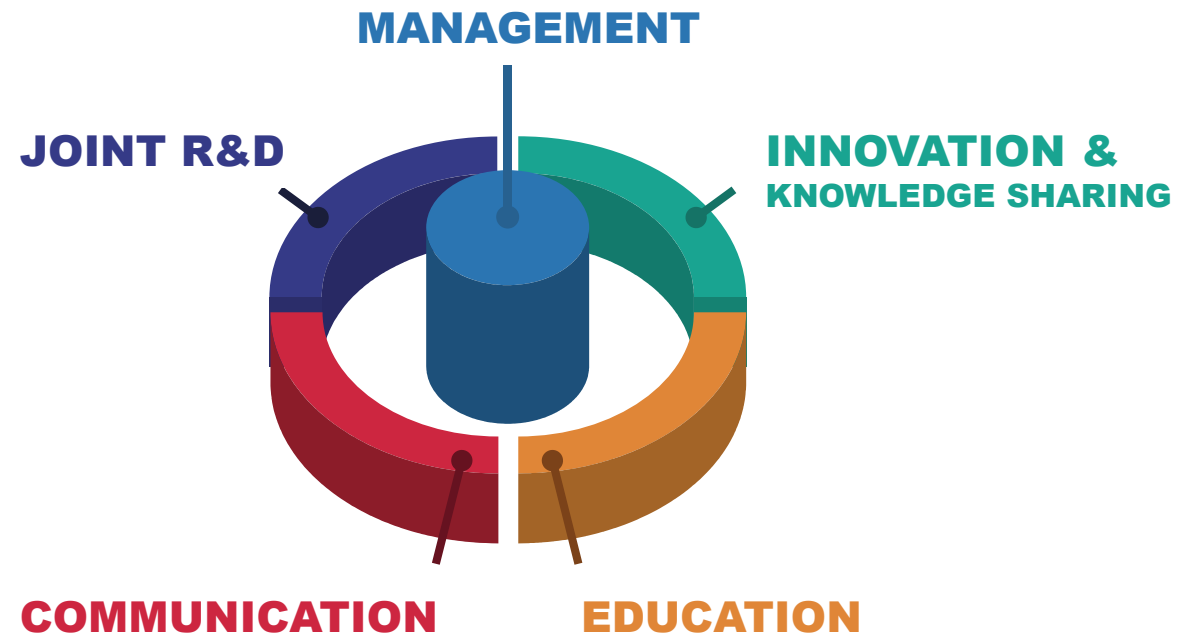


# CERN openlab's mission

*Our recipe for success*

- **Evaluate** state-of-the-art technologies in a challenging environment and improve them.
- **Test** in a research environment today technologies that will be used in many business sectors tomorrow.
- **Train** the next generation of engineers/researchers.
- **Promote** education and cultural exchanges.
- **Communicate** results and reach new audiences.
- **Collaborate** and exchange ideas to create knowledge and innovation.



# CERN openlab lecture programme

*All students from all programmes are welcome to attend!*



## Computing in high-energy physics

*Maria Girone*

IT Amphitheatre (31-3-004)

13:30-14:30, 2 July



## Computing Security in 2019

*Sebastien Lopienski*

IT Amphitheatre (31-3-004)

13:30-15:30, 4 July



## Presentation by the CERN Director for Research and Computing

*Eckhard Elsen*

Main Auditorium (500-1-001)

11:30-12:20, 8 July



## Quantum Computing for High Energy Physics Applications

*Federico Carminati*

IT Amphitheatre (31-3-004)

13:30-15:30, 9 July



## DAQ-Filtering Data from 1 PB/s to 600 MB/s

*Tommaso Colombo*

IT Amphitheatre (31-3-004)

14:45-17:00, 2 July



## Introduction to Machine Learning

*Michael Aaron Kagan*

IT Amphitheatre (31-3-004)

13:30-15:30, 5 July



## Containers and Orchestration with Docker and Kubernetes

*Ricardo Brito Da Rocha, Spyridon Trigazis*

IT Amphitheatre (31-3-004)

13:30-15:30, 8 July



## From raw data to physics results (1/3)

*Paul James Laycock*

Main Auditorium (500-1-001)

10:25-11:25, 15 July

# CERN openlab lecture programme

*All students from all programmes are welcome to attend!*



## From raw data to physics results (2/3)

*Paul James Laycock*

Main Auditorium (500-1-001)

10:25-11:25, 16 July



## Evolution in Computing Hardware (1/2)

*Sverre Jarp*

IT Amphitheatre (31-3-004)

13:30-15:30, 16 July



## Evolution in Computing Hardware (2/2)

*Andrzej Nowak*

IT Amphitheatre (31-3-004)

16:00-17:30, 16 July



## From raw data to physics results (3/3)

*Paul James Laycock*

Main Auditorium (500-1-001)

10:25-11:25, 17 July



## Intro to High Performance Computing with GPUs

*Ahmad Siar Hesam*

IT Amphitheatre (31-3-004)

13:30-16:30, 19 July



## Deep Learning hands-on

*Sofia Vallecorsa*

IT Amphitheatre (31-3-004)

13:30-15:30, 22 July



## Introduction to medical informatics

*Taghi Aliyev*

IT Amphitheatre (31-3-004)

13:30-14:30, 23 July



## Medical informatics: Biodynamo project

*Lukas Breitwieser*

IT Amphitheatre (31-3-004)

14:30-16:30, 23 July

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[indico.cern.ch/category/11195](https://indico.cern.ch/category/11195)

## Lightning talks

- Students work on projects over nine weeks, gaining hands-on experience with latest ICT solutions.
- 5-minute presentations by each student, with prizes for best talks.
- Split into two sessions: 13 August at 14:00 and 15 August at 14:00.
- Both take place in IT Amphitheatre (31-3-004).

## Webfest

- A weekend-long hackathon: run by students for students.
- Takes place 26-28 July here in Main Auditorium and R1.
- Collaborate on science-related projects using open-web technologies.
- Submit your ideas for projects or join existing ones.
- Full details on the event website: [webfest.web.cern.ch](http://webfest.web.cern.ch).



The poster for Webfest 2019 is set against a blue background with various white and yellow icons representing science and technology, such as a DNA helix, a calculator, a microscope, a cloud with an arrow, a recycling symbol, a QR code, and a signal tower. The text is arranged as follows:

JULY 26 - 28 • RESTAURANT 1  
CERN SUMMER STUDENT  
**WEB  
FEST  
2019**  
#CERNWEBFEST

THE LHC + TECH  
DATA + CREATIVITY  
+ CHALLENGES +  
COMMUNITY + YOU

FOR MORE INFORMATION: [HTTP://WEBFEST.WEB.CERN.CH/](http://webfest.web.cern.ch)

Come develop world-changing apps, collaborate with incredible people, and innovate the future of the web, the LHC, and the way we understand the world.

At the bottom, there are logos for CERN openlab, crowdAI, Quantum Future, citizen cyberlab, and THE Port.ch.