



Lab of the Future is a European project **co-funded by the European Union** that promotes practical training in **Artificial Intelligence (AI)**, **Virtual Reality (VR)** and **Cloud-LIMS** for laboratory technicians and students across Europe.

These materials provide a **clear and up-to-date overview of the technologies that are transforming laboratories**, making it easier to understand their practical use and impact.

***Its mission:** to accelerate the digital and green transition of the laboratory sector through technical and sustainable training.*

Implementation Period: September 2025 – February 2028 (30 Months)



Lab of the Future

Boosting digitalization in laboratories and training centers with AI, VR and Cloud-LIMS.



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Why is it necessary?

The **digital and green transition** requires laboratories and training centers to acquire **new skills** to improve their efficiency, sustainability and competitiveness..

However, there is still a **lack of practical training** in the use of technologies such as **AI, Virtual Reality, IoT, Blockchain or Cloud-LIMS**, which are essential for innovation.

Lab of the Future aims to **reduce the digital gap** between European laboratories by providing **tailored content and practical training** that prepares students and professionals for the labour market.

Project objectives



Develop a training programme and an **immersive learning platform** on digitalization and sustainability.



Improve key competencies in AI, VR, IoT, Blockchain, Cybersecurity and Cloud-LIMS.



Share best digitalization practices in the European context.



Facilitate the digital and green transition in laboratories.



Connect training with the real needs of the labour market.

Expected results

5 focus groups in European countries and promotion of **70 best digitalization practices in laboratories.**

6 training modules on AI, VR, IoT, Blockchain, Cybersecurity and Cloud-LIMS in e-learning format.

Training sessions in 5 countries, involving **192 laboratory technicians and students** across the EU.

European Qualifications Framework for digital laboratory technicians.

European Digitalization Working Group with 60 laboratories and training centres from 30 countries to drive the digital transition.

32 Digitalization Strategies for laboratories and training centers developed by sector experts.



Who benefits?

Students and future laboratory professionals.

Teachers and trainers in digitalization or sustainability.

Laboratory technicians in European SMEs.

Formal and non-formal training centers (biotechnology, chemistry, analysis, etc.).

Who develops Lab of the Future?

novotec

FUNDACIÓN **equipo humano**
INNOVATIVE ACTIONS FOR A PEOPLE-CENTRED EUROPE



eurolab

