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## WHY FUNDAMENTAL SCIENCE IS ESSENTIAL

*Saturday 4 September 2021 15:00 (1 hour)*

Dr. Jose Miguel Jimenez is the head of the Technology Department (TE) at CERN.

The TE Department is responsible for technologies specific to existing particle accelerators, facilities and future projects.

The main domains of activities cover : magnets (superconducting, normal conducting, fast pulsed magnets, electrostatics and magnetic septa), their machine integration and protection, power converters, cryogenics, vacuum systems, coatings and surface treatments.

The TE Department is responsible for injection and extraction systems in the entire accelerator complex for beam transfer lines (conception, commissioning, performance follow-up) between accelerators and primary beam lines up to targets.

The TE provides support to the experimental detectors, mainly for cryogenics vacuum, coatings, surface treatments and power converters.

The dominating part of the activities for the next years is the exploitation of the LHC complex and its upgrades.

The TE Department is responsible to contribute to design studies and to design equipments and systems where necessary for consolidations, upgrades and future CERN projects.

The TE is responsible to guarantee permanence of expertise, follow the state-of-the-art and to develop knowledge in the particle accelerator technology fields.

(Credit: CERN TE Department)

**Presenter:** Dr JIMENEZ, Jose Miguel (CERN)

**Session Classification:** CLOSING SCHOOL SESSION