Istituto Nazionale di Fisica Nucleare

CORSO DI FORMAZIONE NAZIONALE

The project management inside scientific projects: project initiation, scoping, costing, planning, resourcing and executing

INFN National Training Programme

Target:
This course is inserted in a training path for Fellini fellows and mentees of INFN mentoring programs in order to give to young researchers a broader training on different items, not strictly scientific.
These 2-half days training course focuses on the development of complementary skills concerning Project Management. The knowledge and understanding of how scientific projects are managed has the aim of improving the participants' education. The course is designed to highlight the roles of the project stakeholders in the whole project lifetime and covers project initiation, scoping, costing & planning, executing & controlling and closing. The limits of project management approaches are also considered. This training module refers to major project management and systems engineering standards and methodologies. The course is a mixture of interactive lectures, in which discussion and idea sharing are encouraged, and of discussion sessions around real and specifically designed scientific project case studies.

Training language:
English

Dates:
4-5 maggio 2021

Number of training modules:
2, each of 4 hours

Participants:
30 plus 4/5 auditors in case of many applications

Teacher:
Luisella Lari (Ingegnere- PhD in Fisica- In-Kind Contribution Manager & Scientist presso il FERMILAB(USA)
llari@fnal.gov

Training format:
webinar

PROGRAMME

Module 1 (first day): 14:00-18:00 (Italy) 7:00-11:00 (Chicago)

1. Welcome and motivation for the PM course for young researchers
    a. Example of open positions to show them a possible alternative carrier path with a PhD in physics or in scientific disciplines.
    b. Overview of the strategic management of the laboratory and the roles of the different level managers.
2. Introduction to PM discipline.
    a. Project Life cycles.
3. Scientific projects and key topics for scientific projects
    a. Examples of technical vs. performance incertitude
        i. Possible exercise with project examples.
    b. PM Standards vs PM Methodologies
4. Project Management Organization and the role of the Project Manager.
    a. Stakeholders identification

Module 2 (second day): 14:00-18:00 (Italy) 7:00-11:00 (Chicago)

1. Project key docs vs Project life cycles
    a. System Engineering
    b. Project document deliverables
2. Project scope management:
    a. WBS vs PBS vs OBS
    b. Scope creep examples in the scientific community
3. Project cost management:
    a. Cost estimates
    b. S curve
    c. Controlling/tracking costs (EVMS)
4. Project Quality/Risk management
    a. Contingency
5. Ramp up, incl. overview on Agile PM discipline.