GUIDELINES FOR PARTICIPATING IN THE IDEASQUARE GRADE PROGRAM

IdeaSquare@CERN hosts detector R&D projects and facilitates cross-disciplinary MSc-student programmes, next to the Globe of Innovation (B3179). IdeaSquare supports and coordinates the ATTRACT-initiative[1].

IdeaSquare@CERN

The purpose of IdeaSquare is to explore new ways to connect fundamental research with society – including industry. It offers technical and administrative support for detector R&D and connected student projects responding to sustainable development goals. This support includes:

- providing access to rapid prototyping facilities;
- offering meeting space and temporary work space for the project partners and students;
- organizing thematic technical workshops cutting across the scope of the different projects;
- injecting cross-disciplinary MSc student teams working on specific assignments aiming at having an impact also outside the domain of particle physics;
- looking for potential future industrial partners;
- assisting in preparing and submitting future EU-funding applications related to detector R&D and upgrades (e.g. ATTRACT).

Operation principles for GRADE projects

All requests to join GRADE go first through the Technical and Resources Coordinator of GRADE, who then in turn consult the CERN Director of Research and Computing.

All hosted GRADE projects agree to the following guiding principles:

1) The projects are related to generic and/or early-stage detector R&D deemed necessary by future upgrades and/or physics initiatives with a 10+ year time horizon;
2) The projects aim at creating new collaborations and bringing in complementary (new) resources for the benefit of the basic research mission of CERN[2];
3) The projects start by preparing Technical Design Reports, simulations, prototyping and testing, based on in-kind contributions and agreed deliverables. Their lifetime is up to four years, after which their progress and future status is to be discussed with the Research Board;
4) The projects are transparent and accessible within the community in terms of information flow and exchange of ideas (i.e. following the principles of open science, open innovation, open access);
5) The projects include a strong educational component as well as identified potential for industrial co-development and partnership, having in mind new ideas beyond the scope of particle physics, alone (i.e. not a traditional subcontractor relationship);

[1] www.attract-eu.com.
[2] Ref. General Conditions for CERN Experiments.

6) The projects follow the open access philosophy adopted by IdeaSquare where the partners are left free to utilize the results of the project without claims from the collaboration;
7) The projects agree to share the IdeaSquare facilities and interact with each other and across scientists, engineers and students;
8) The projects agree to host visiting CBI and other cross-disciplinary student teams subject to a case-by-case agreement specifying the scope and level of involvement implied;
9) The projects agree to host short (VIP) visits as requested by CERN;
10) The projects subscribe to CERN rules and regulations related to the safe operation and effective use of the IdeaSquare building.

More information: Marzio.Nessi@cern.ch, Markus.Nordberg@cern.ch

Version 3.1, January 20, 2020