

Marie Curie Big-DATA Proposal

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The Marie Curie Initial Training Network

- The Marie Curie Initial Training Network (ITN) is a funding instrument established by the European Commission (EC):
 - *“the purpose of a Marie Curie ITN is to **improve career perspectives of researchers** in the first five years of their research career, in both public and private sectors, thereby making research careers more attractive to young people...Participants implement a **joint research training programme**, which should respond to well identified needs in defined scientific or technological areas, expose the researcher to other sectors including private companies, and offer a comprehensive set of training including complementary skills (entrepreneurship, Intellectual Property Rights, etc.)”*
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Why is an ITN relevant for CERN openlab?

- The ITN will enable partners in the project to recruit additional personnel, funded by the EC, to work on subjects of joint-interest
 - The additional people hired would be young (<5 year's experience) researchers employed on contracts with the partners for up to 3 years
 - EC calls recruits Early Stage Researchers [ESR]
 - Means by which to expand to relationship to other major research labs in Europe
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- Scientific and Technical Excellence
 - Multi-disciplinary
 - Engagement between industry/academia
 - Training programme
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- Data acquisition
 - Data processing and analysis
 - Data storage and long-term archiving
 - Data distribution and open access
 - Data security
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Confirmed

CERN – (coordinator)

CCFE/EFDA

ESA

European XFEL

ILL

Intel

HP

Siemens

Full: recruits at least one ESR

Associate: offer training and secondments to ESRs

Must be a mixture of research and industry full partners

Pending Confirmation:

ORACLE, EMBL-EBI, ETM, Huawei, National University of Ireland, Technical University of Munich

Synergy of domains and partners

Partner	Data Acquisition	Data Processing /Analysis	Data Storage/ Long-term archiving	Data Distribution / Open Access	Data Security
CERN					
CCFE/EDFA					
E. XFEL					
ILL					
ESA					
Intel					
HP					
Siemens					

- Suggest that we expand existing CERN sponsored training programme to be BIG-DATA networking/training events
 - CERN openlab summer student programme
 - Add presentations/modules from other partners to CERN openlab summer student programme
 - <http://openlab.web.cern.ch/education/summer-student-programme>
 - Two month residential IT training programme (will count as a secondment)
 - CERN School of Computing
 - Two week residential IT training camp held in a different European country each year
 - <https://csc.web.cern.ch/CSC/>
 - State all ESRs will participate to these programmes once during their 3 year engagement
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- Provide more detail on the proposed specific projects
 - Named supervisors
 - Training Programme

 - Match-making between subjects/partners to confirm for each ESR who would hire them and where they would be seconded

 - Will require prompt input from partners during October
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