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## Cisco Joins CERN openlab

June 9, 2015 by [staff](#) [Leave a Comment](#)

Today, Cisco announced it is joining [CERN openlab](#), CERN's platform for science and industry partnerships.

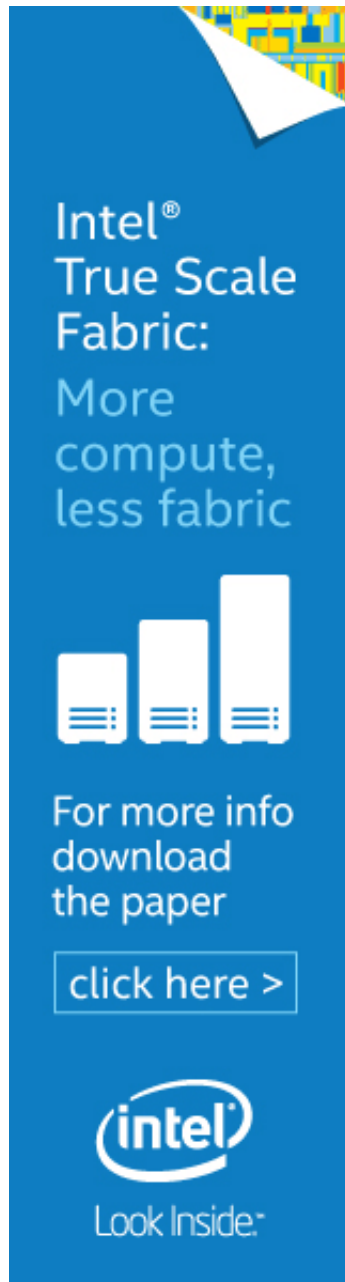
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The success of the LHC depends critically on advances in information processing technologies and components. Advanced technologies are needed to operate scientific instruments, such as the accelerator and the detectors, safely and efficiently in an open environment,” said Alberto Di Meglio, head of CERN openlab. “We need technologies that are at the forefront of today's practices and in many cases several years ahead of general industry usage. Therefore, we are partnering with industry leading companies and are pleased to welcome Cisco into CERN openlab.”



As part of the CERN openlab initiative, CERN and Cisco are both assigning a team of experts with the aim to develop cutting-edge, highly secure computing infrastructure technologies, capable to deal with large and ever increasing amounts of data. Their mandate is to develop ground-breaking ideas and new approaches for next-generation computing systems. They will investigate novel concepts that build on the latest evolution of hardware, heterogeneous system designs and increasing functionality of the network interface hardware.

CERN openlab provides a framework to develop and prototype state-of-the-art technologies in CERN's highly sophisticated research environment. It also



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offers an opportunity to train the next generation of engineers and work with a global talent pool, thanks to CERN's collaboration with the world's top universities.

CERN operates the world's largest scientific facility where physicists and engineers are probing the fundamental structure of the universe. The Large Hadron Collider (LHC) research program involves collecting and analyzing data from millions of sensors. Today, these sensors can produce data at a rate of up to a petabyte (equivalent to around 20,000 Blu-ray discs) per second. Over the next decade, CERN expects these rates to grow significantly, which will require not only very large computing and storage facilities, but also novel approaches in many IT related domains.

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