

THE DIGITAL SCIENTIST

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Over the last five years, scientists and computer experts relied on iSGTW for top-notch international news and analysis on scientific distributed computing. It's about to get better.

CONVENTION
R. P. P. P.

EARLY SCIENCE
Christopher Devita, SOCC and UCD

RESEARCH
W. K. K. K.

RESEARCH
F. M. M. M., S. S. S. S., B. B. B. B., H. H. H. H., J. J. J. J., K. K. K. K., L. L. L. L., M. M. M. M., N. N. N. N., O. O. O. O., P. P. P. P., Q. Q. Q. Q., R. R. R. R., S. S. S. S., T. T. T. T., U. U. U. U., V. V. V. V., W. W. W. W., X. X. X. X., Y. Y. Y. Y., Z. Z. Z. Z.

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TECHNOLOGY CHALLENGES

NETWORKING AND DATA

Fermilab stores more than 10 Petabytes (a billion Megabytes, the equivalent of about 1,700,000 audio CD's) of data per year and distribute an order of magnitude more to physics institutions worldwide. Allocation and management of the network bandwidth, the promise of 100 Gigabit fabrics will aid the path to discovery!

FERMILAB STORES MORE THAN 25 PETABYTES ON TAPE

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THE OPEN SCIENCE GRID

THE WORLD AT OUR FINGERTIPS

The Open Science Grid provides services in the U.S. that enable physics, biology and other researchers to lead the way in global community science accessible to all. More than 100 institutions and 5000 scientists analyze the data from the Compact Muon Solenoid (CMS) experiment. More than 500 physicists using the Fermilab Tevatron are racing to provide results that CMS can build on.

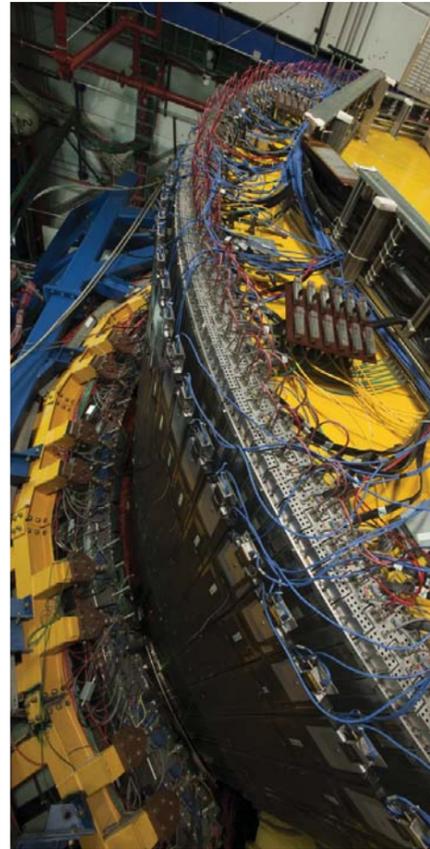
Search for the Higgs Particle
Results as of July 2012

Region	Number of Scientists
USA	1000
Europe	1000
Asia	1000
Africa	1000
Australia	1000

MORE THAN 100 INSTITUTIONS AND 5000 SCIENTISTS AROUND THE WORLD ANALYZE THE DATA FROM THE EXPERIMENTS

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OUTSIDE