

Nicholas J. Sammut B. Eng (Hons), Ph.D.

Research Engineer in Large Hadron
Collider Operation
Accelerators and Beams Department
CERN - The European Organisation for
Nuclear Research
Speciality: Accelerator Technology



Personal Profile

Nicholas is the first child of Michael and Monica Sammut and has one younger brother Andrew. He attended primary and secondary school in Stella Maris College Gzira in Malta, proceeded to St. Aloysius College in sixth form and studied at the University of Malta to become an electrical engineer.

After finishing his first degree, he promptly carried on specialising by setting up a collaboration project between University of Malta and CERN in Switzerland, for which he was awarded a Ph.D. Nicholas now works as a research engineer at CERN where the scientists have just launched the LHC (Large Hadron Collider) for the first time after 24 years of research and development that cost 4 billion Euros for materials alone.



Research

Dr. Nicholas J. Sammut conducts research on the Large Hadron Collider : the largest and most powerful scientific instrument ever built by mankind spanning 27 km in length. His work is related to magnetic properties of very powerful magnets that guide the particles around the LHC's circular path. To do this he designs, builds and tests instruments that measure the LHC magnets. With these measurements and with a series of mathematical

tools, he models the effects of the magnets on the particles and then builds/maintains the control system of the machine that is used in the CERN Control Centre.

The particles being accelerated by the LHC are then smashed together and these experiments should help identify even more basic particles such as the Higg's boson.

Other interests

Besides scientific work, Nicholas also enjoys an active social life. He loves travelling, sailing, skiing, salsa dancing and going out with friends.



Relevant Links

<http://public.web.cern.ch/public/>