

Jérôme Faist obtained his Diploma and Ph.D. in Physics (1989) from EPFL. He then worked at IBM Rueschlikon (89-91) and Bell Laboratories (91-97). It is during that time that he made the key contribution to the invention and further development of the quantum cascade laser (QCL). He was then nominated full professor in the physics institute of the University of Neuchâtel (1997) where his research on QCL enabled to demonstrate the first room temperature, continuous wave operation of a QCL as well as important milestones in the development of THz QCL. Continuing his research as an ordinary professor in the ETH Zurich (2007), his interests broadened to circuit-based THz lasers, ultrastrong light-matter coupling as well as QCL optical frequency combs, which his group demonstrated first in 2012.

His key contribution to the development of the quantum cascade laser was recognized by a number of awards that include the IEEE/LEOAS William Streifer award(1998) the National Swiss Latsis Prize 2002, the IEEE medal for the Environment (2018) and the Julius Springer prize for Applied Physics (2019). He is member of APS and a fellow of the optical society of America.