

Personal Information

Full name	Franz J. Giessibl
Current position	Professor
Organization	University of Regensburg
Country	Germany

**Short Biography**

Franz J. Giessibl was born and raised in southern Germany and studied physics from 1982 to 1987 at the Technical University of Munich and at the Eidgenössische Technische Hochschule Zürich. He received a diploma in experimental physics in 1988 with Gerhard Abstreiter at TU München and continued with a PhD about low temperature force microscopy in physics with Nobel Laureate Gerd Binnig at the IBM Physics Group Munich / LMU München on atomic force microscopy. After submitting his PhD thesis in the end of 1991 and a short time as a Postdoctoral Fellow at the IBM Physics Group Munich, he moved to Silicon Valley to join Park Scientific Instruments, Inc as a senior scientist and later director of vacuum products from mid 1992 until the end of 1994. He joined the Munich office of management consulting firm McKinsey & Company from 1995 to 1996 as a senior associate. During that time, he invented the qPlus sensor, a new probe that is central to many home-built and most commercial low temperature force microscopes today. From 1997, he continued experimental and theoretical work on the force microscope with Jochen Mannhart at University of Augsburg where he received a habilitation in 2001.

In 2006, he joined the faculty at the Department of Physics at the University of Regensburg in Germany. His main scientific interests are centered around the atomic force microscope and its combination with the scanning tunneling microscope, ranging from the physics of ultrahigh and subatomic spatial resolution, atomic manipulation, atomic identification, friction, spin dependent interactions, Kelvin probe microscopy, local work function measurements and the simplification of highly resolved force microscopy in ambient environments.