Dr. Fabio Boccuni was born in Rome on 8 June 1977.

In 2003, he graduated in Environmental Engineering under the former five-year degree system. In 2005, he qualified to practice as an engineer and was admitted to the Register of Engineers of the Province of Rome, registration number A26438. From 2014 to 2024, he has been a member of the Commission on Safety in Work Processes at the Register of Engineers of the Province of Rome.

From 2003 to 2010, he worked as a contract researcher at the Department of Occupational Medicine of the Italian National Institute for Occupational Safety and Prevention (ISPESL). From 2010 to 2016, he continued as a contract researcher in the same Department, following its incorporation into INAIL's Research Sector.

Since 2014, he has taught in training and seminar initiatives organised by INAIL on the health and safety aspects of nanomaterials. In 2014 and 2015, he lectured on the assessment and management of potential risks arising from exposure to engineered nanomaterials in the workplace as part of the advanced course in industrial hygiene organised by Roma Tre University and INAIL. He was a member of the Scientific Secretariat and lecturer for the Advanced Training Course "Risks and Opportunities Associated with the Use of Nanotechnologies and Enabling Technologies" within the 2018–2019 INAIL–Sapienza Master's programme.

In 2016–2017, he served as scientific coordinator for the project "Nano-Lab: Methodology for the Analysis of Exposure to Engineered Nanomaterials Integrated with Control Banding Techniques for Risk Management in the Workplace", carried out in collaboration between INAIL, the Scuola Normale Superiore of Pisa, CNR, IIT and AIRI/NanotecIT.

From 2017 to 2023, he has been a researcher at the Laboratory of Carcinogenic and Mutagenic Agents Risk of INAIL's Department of Occupational and Environmental Medicine, Epidemiology and Hygiene, where he developed methodologies for assessing risks related to exposure to nanomaterials in the workplace.

Since 2017, he is the scientific coordinator for the project "Risks and Opportunities Associated with Technological Innovation for the Protection of Health and Safety in the Workplace, with Particular Reference to Nanotechnologies and Enabling Technologies (NanoKey–Nanokey Advanced–Nanokey Sens)", carried out in collaboration between INAIL and IIT.

Since 2024, he is senior researcher at the Laboratory of Hazardous Substances Risk of INAIL's Department of Occupational and Environmental Medicine, Epidemiology and Hygiene.

He has served as a scientific reviewer for the journals "International Journal of Occupational and Environmental Health", "Environment International", and "Nanotoxicology". Since 2020, he is Topic Editor for the journal Sustainability.

He has been an invited speaker at more than 50 national and international conferences and seminars in the field of occupational health and safety and is the author of more than 150 publications, including peer-reviewed articles in indexed scientific journals, book chapters, monographs and abstracts (Scopus h-index = 16).