Guy De Mulder studied at Ghent University and received a Master in History (1988) and a Master in Archaeology (1991). After graduation, he worked 13 years in the Provincial Archaeological Museum at Velzeke (Zottegem). During this period, his scientific work was concentrated on the Gallo-Roman period. Next to his scientific work, he was also the curator of four exhibitions on topics from the Bronze Age and Iron Age in Belgium and the Balearic Islands.

In 2005 he started as assistant at the Department of Archaeology (Ghent University). From 2011 until 2015, he worked as dr.assistant at the Department of Archaeology (Ghent University). Since 2016, he is research professor BOF at the Department.

His PhD was focused on the cremation rites of the Late Bronze Age and Early Iron Age cemeteries in the Scheldt basin. The method to date cremated bone using bio-apatite offered the opportunity to radiocarbon date these cemeteries. This dating project was carried out in cooperation with the Royal Institute for Heritage in Brussels. New insights on the evolution of funerary rituals in the Scheldt basin were developed.

His present projects are focused one different topics. Material studies are one of these. The relation between typochronology and radiocarbon dating is one of these sub-themes. One of these is the study of full hilted swords in France and the Low Countries in cooperation with the University of Dijon (BOF UGent). He participates in the EoS-project "Crumbel" which focus on mobility from the Late Neolithic until the early Medieval period studying isotopes from cremated bones which has started in 2018. This project is a cooperation between Ghent University, Vrije Universiteit Brussel, Université Libre de Bruxelles and The Royal Institute for Cultural Heritage.

Another research focus is the protohistoric archaeology of the Balearic Islands. One topic is the study of so-called limeburials on the Balearic Islands in cooperation with the Royal Institute for Heritage and local museums and institutes. Fieldwork at Cova de Na Dent and Son Pellisser on Mallorca and Cova de Sa Prior in Menorca has been undertaken. Aim was the study of the changing cremation and inhumation rites during the Balearic protohistory. Another point are the excavation of Cornia Nou, an enigmatic site in the building history of the talayotic culture.

He is member of the board of the 'Belgian Metal Ages Association' (CAM-Lunula) and member of the 'Association pour la Promotion des Recherches sur l'Age du Bronze' (APRAB) and the European Association of Archaeology (EAA). He coordinates the editing of the journal "Lunula. Archaeologia protohistorica" and the organization of the annual congress.