

Steven Van Petegem is currently senior scientist within the Photon Science Division at the Paul Scherrer Institute (PSI). He has worked at PSI since 2003 in various roles including beam line scientist at the Small Angle Neutron Scattering instrument SANS-I, junior scientist in the Materials Science and Simulations group, beam line scientist of the neutron diffractometer POLDI and senior scientist in the Photons for Engineering and Manufacturing group.

Steven's PhD is from the Ghent University, Belgium, where he worked on the synergy between experimental techniques and modelling to study the microstructure of nanocrystalline metals. Throughout his career, he has emphasized the importance of utilizing large-scale facilities to investigate structure-properties relationships in metals.

Currently, Steven is leading a dedicated team within the Structure and Mechanics of Advanced Material group. His recent work has particularly delved into the microstructural evolution during additive manufacturing of metals, employing advanced X-ray and neutron diffraction techniques alongside imaging methodologies, electron microscopy and mechanical testing.