

Patrick leads the Global Manufacturing Sciences Organization in Biogen's Global Manufacturing & Technical Operations (GMTO) function, managing overall CMC responsibilities across the portfolio of products. These responsibilities include process sciences, material sciences, cell banking and tech transfer of processes (both Biogen internal assets and strategic partner programs) into internal factories and external CDMO plants. Patrick and his team are the primary conduit from the manufacturing to Biogen's Development organization to support clinical transitions across biologics, small molecules, oligonucleotides and gene therapy.

Prior to Biogen, Patrick was an Executive Director within Amgen's Process Development (PD) organization where he led various functions including PD site head at the Rhode Island manufacturing facility and Head of the Material Attributes and Technologies function. He has also worked at Pfizer (formerly Wyeth) and spent a number of years as a post-doctoral researcher with a particular focus on the molecular and cellular biology of Chinese Hamster Ovary Cells. Patrick received a Bachelor of Science degree and PhD in Biotechnology from Dublin City University, Ireland.