

Jocelyn N. Fillmore

Senior Chemist



EXPERIENCE

Senior Chemist

2018 to present

STPA Chemist

2016 to 2018

Chemist and Technician

2008 to 2016

EDUCATION

University of Maryland, Baltimore County

BS in Biochemistry and Molecular
Biology

Ms. Fillmore joined Sheppard T. Powell Associates, LLC in 2016. Her primary responsibility has been the laboratory analyses of water and steam samples received from combined cycle and conventional power plants. Her analyses routinely include ion chromatography (IC), graphite furnace atomic absorption spectroscopy (GFAA), flame atomic absorption spectroscopy (AA), nonpurgeable organic carbon (NPOC) measurement, ultraviolet/visible (UV/Vis) spectrophotometry and other standard wet chemistry test methods.

Prior to joining Sheppard T. Powell Associates, LLC, Ms. Fillmore worked for about two years for the City of Baltimore Department of Public Works. She worked as a state-certified chemist in drinking water and wastewater treatment plants. Analyses included biological oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon (TOC) and various wet chemical test methods.

Ms. Fillmore worked for about one year as a manufacturing technician at Meso Scale Diagnostics. While at this facility, Ms. Fillmore developed standard operating procedures for new manufacturing processes.

Ms. Fillmore started her career as a chemist working for Aurora Analytics, LLC, a small startup firm. She was mainly involved in analyzing samples from various manufactured products, mainly using high-pressure liquid chromatography (HPLC) and reverse HPLC. She also was involved in research projects using nuclear magnetic resonance (NMR), fourier transform infrared spectroscopy (FTIR), sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE), and gel permeation chromatography /size exclusion chromatography (GPC/SEC).