



PHILIP CRAWFORD CONSULTING ENGINEER

CREDENTIALS

- ♦ *B.S. Chemical Engineering, North Carolina State University, Raleigh, NC, 2008*
- ♦ *Engineer-in-Training (EIT), North Carolina E.I. A-23755*

PROFESSIONAL EXPERIENCE

- ♦ **May 2019-Present:** *ALL4 LLC, Raleigh, NC – Consulting Engineer*
- ♦ **2017-2019:** *AECOM, Morrisville, NC – Air Quality Engineer*
- ♦ **2016-2017:** *Eastern Research Group Inc., Morrisville, NC – Staff Engineer*
- ♦ **2014-2016:** *Cree Inc., Durham, NC – Environmental Engineer*
- ♦ **2010-2014:** *Eastern Research Group Inc., Morrisville, NC – Staff Engineer*
- ♦ **2008-2009:** *International Paper, Franklin, VA - Process Engineer*

TECHNICAL EXPERTISE

- ✓ *State and Federal air quality and permitting programs including PSD, NSPS, NESHAP, and Title V;*
- ✓ *New/modified source air permitting;*
- ✓ *Technical support to industry trade associations;*
- ✓ *Assisting industrial clients in developing compliance strategies and tools for new applicable requirements such as NESHAP and NSPS;*
- ✓ *Development and review of MACT floor calculations, emissions inventories, and air pollution control equipment economic feasibility*

PROFESSIONAL OVERVIEW

Mr. Philip Crawford graduated from North Carolina State University in June 2008 with a Bachelor of Science in Chemical Engineering and a concentration in Green Chemistry. He started his career as a process engineer in the chemical recovery department of a large pulp and paper mill. Since then, he has gained experience as a contractor for U.S. EPA, an environmental engineer for an electronics manufacturer, and an air quality consultant for private industry.

Mr. Crawford's air quality experience includes federal regulatory development; regulatory cost analysis; review and development of enforcement actions; Title V, PSD, and minor NSR permitting; air emission inventory preparation; and greenhouse gas inventory and reporting. He has provided support for a number of clients in a variety of industries including the forest products, power, pharmaceuticals, public and private universities, and chemical manufacturing sectors.