

## **ROBERT** NEEDHAM CONSULTING **ENGINEER**

CREDENTIALS	•	B.S. Chemical Engineering (Minor in Chemistry), Virginia Polytechnic Institute and State University, 2015
PROFESSIONAL EXPERIENCE	* *	2020 – Present: ALL4 LLC., Herndon, VA – Consulting Engineer 2018 – 2020: ALL4 LLC., Herndon, VA – Project Engineer 2015 – 2018: Celanese Corporation, Narrows, VA – Process Improvement Engineer

## **TECHNICAL** EXPERTISE

- State and Federal air permit programs including Title V, construction permit applications, and minor source permitting
- ✓ Annual/semiannual compliance and emissions reporting
- ✓ New Source Review (NSR) analyses including NNSR and PSD
- ✓ Air emissions inventories
- ✓ Environmental Compliance Training
- √ 40 CFR Part 60, Subpart Dc Compliance and Reporting

- ✓ Air emissions modeling
- ✓ Best Available Control Technology (BACT) analyses
- ✓ Environmental Compliance Reporting
- ✓ Environmental Compliance Auditing
- ✓ Emissions tracking for continuous compliance
- √ 40 CFR Part 98 Greenhouse Gas Emissions Reporting
- ✓ U.S. EPA Reference Method 9 Visible Emissions Testing

## **PROFESSIONAL** OVERVIEW

Mr. Robert Needham graduated from the Virginia Polytechnic Institute and State University in May 2015 with a Bachelor of Science in Chemical Engineering and a Minor in Chemistry. Mr. Needham has over six years of experience working in chemical manufacturing and environmental compliance. Prior to beginning his employment with ALL4, Mr. Needham worked in chemical manufacturing for Celanese Corporation. Mr. Needham's current role with ALL4 is a Consulting Engineer, providing project support in environmental permitting, compliance, auditing, testing, and training, with a focus in air quality. Mr. Needham has assisted with Title V permit applications, construction permit applications, new/modified source permitting, and other State and Federal environmental programs. Mr. Needham's compliance experience includes auditing, training, performance testing oversite, U.S. Environmental Protection Agency (U.S. EPA)'s Method 9 visible emissions testing, greenhouse gas (GHG) reporting, Toxic Release Inventory (TRI) reporting, and annual emissions reporting.

In his role at ALL4, Mr. Needham has served on a variety of project teams, gaining experience in several industries, such as chemical manufacturing facilities, healthcare centers, data centers, higher education institutes, automotive manufacturing facilities, and government facilities. Mr. Needham has experience working with clients across multiple states including Alabama, California, Illinois, Maryland, Pennsylvania, Virginia, and Washington, D.C.