

## Matthew Reilly

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### **Material Development Engineer      Trelleborg Sealing Solutions-Aerospace      August 2018-Present**

- Successfully brought the lab from a deficient state to earn ISO17025 recertification.
- Assisted application engineers with several product investigation projects.
- Lab manager overseeing lab technicians and maintaining accreditation to ISO 17025.
- Responsible for continuous improvement projects within the materials laboratory.
- Develop and reformulate silicone compounds for new launches and material improvements.
- Serves as an information resource and technical advisor to all departments in the area of material science.
- Performs all physical and chemical testing activities in support of production materials, new materials, processes, and special projects.
- Maintain written records of procedures and processes used on projects, while also making sure all procedures are of the newest revision.
- Maintain compound database and physical property profiles of existing compounds.

### **Chemical Engineer - Rubber Mixing      Freudenberg-NOK Sealing Technologies      September 2012-August 2018**

- Successfully developed several rubber mix recipes in small lot and scaled up to full production.
- Use statistical process control daily to adjust process and maintain quality of mixed rubber compounds.
- Review and coordinate rubber testing with A2LA lab including: physical properties, rheological properties, air aging, compression set, fluid immersions, DSC, TGA, FTIR, among others.
- Reformulate several rubber compounds per year for dual sourcing, cost reductions, and supply disruptions.
- Completed 5 chartered six sigma projects, saving over \$150,000 annually. Project of the year nominee 2017.
- Analyzed capacity and coordinated relocation of equipment to support new business.
- Purchased and implemented new mill for rubber mixing line, improving throughput by 15%.
- Participated on over 16 chartered major and minor kaizen projects.
- Equipment Experience: Vibracool coolers, Eriez Metal Detectors, Alpha Technologies Moving Die Rheometer, RPA, Mooney Viscometer, and tensometer, Banbury Tangential Mixer, Moriyama Tilt Body Kneader, Two roll open mills, and Barwell C3, HT, and C3 Upgrade rubber preformers, Instron tensile tester.

### **Process Technician-Piston Seals      Freudenberg-NOK Sealing Technologies      August 2011-September 2012**

### **Engineering Intern      Freudenberg-NOK Sealing Technologies      June 2010-August 2010**

#### Education and Training

Bachelors of Science in Chemical Engineering - May 2011 - University of New Hampshire, Durham, NH

Fundamentals of Engineering Exam – April 2012 – NCEES

Six Sigma Greenbelt – May 2013 – Freudenberg-NOK Sealing Technologies

Lean Systems Greenbelt – December 2014 – Freudenberg-NOK Sealing Technologies

Six Sigma Black Belt – December 2016 – Freudenberg-NOK Sealing Technologies

ISO 17025:2017 Laboratory Testing and Calibration – June 2018 – A2LA

#### Computer Skills

Microsoft Office: PowerPoint, Word, Excel (Regularly Use: If statements, vlookups, and Pivot tables), Minitab, Lotus Notes, Mesabi Mixvision, Alpha Technologies Software, QAD, SAP, Instron Bluehill.