



**NORMAN**  
**FILTER COMPANY**

## 2021 Engineering Intern

Norman Filter Company

Bridgeview, Illinois, United States of America

Seasonal Full-Time Internship (5/24/21 - 8/13/21)

Aerospace

10 - 50 employees

### Job Description

#### **Engineering Intern**

#### **Job Description**

Norman Filter Company (NFC) is seeking candidates to fulfill the Engineering Intern position for the Summer 2021 timeframe. This paid position will directly interact with NFC Engineering personnel throughout the design, build, and test process. NFC performs engineering, manufacturing, and testing activity on site at our Bridgeview, IL location. This position will gain exposure to the entire engineering process, from initial requirements through hardware realization. Local candidates are preferred, our facility is 25 miles southwest of Chicago.

#### **Subject Matter Responsibilities**

The following list of responsibilities are intended as options available for a candidate to gain exposure. Candidates are not assumed or required to have experience in these fields, responsibilities would be assigned during on-the-job training and incremental advancement. Responsibilities are listed by subject matter area, not by specific tasks.

- Design
  - Pressure Vessels – material selection & analysis, stress calculations
  - Filter Elements – fluids analysis, compressible flow
  - Design for Manufacturability – machining, welding, processing (heat treat, passivation, etc.)
- Build

- Manufacturing
- CNC turning and milling
- Welding – GTAW & Resistance
- Inspection
- Dimensional inspection – physical quantitative measurements
- Special Process inspection – qualitative measurements
- Test
  - Component Testing
  - In-process – manufacturing process screening
  - Acceptance – final go / no-go checks for individual part functionality
  - Qualification – verification of component functionality over entire design envelope
  - Development – performance determination during design process
  - Test stands – design and build of test stands to facilitate testing

### **Requirements**

NFC is specifically requesting students entering their Junior or Senior (or equivalent) year of school in fall 2021. Candidates shall be able to work with **ITAR/EAR restricted information and be a U.S. citizen**. Requirements shown below are expected minimums. Interested candidates, including those not meeting these exact requirements, are encouraged to include a short, written summary describing their interest and applicable skillset.

- 4-year Engineering degree track
- AAE, ME preferred
- Fundamental course work completed
- Structures/Statics
  - Incompressible Flow

*Applications will be accepted from 11/16/2020 – 12/11/2020*