SSG – Portsmouth 2013 Summer Internship Program
Engineering Internship Description

Hiring Department: Engineering

Department Manager/Contact Person: Peter Breed - Engineering Manager

Company Information:

Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. With revenues of more than $12 billion, we have approximately 39,000 employees and serve customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as in environmental and process control industries. Our products and services help accelerate the pace of scientific discovery, and solve analytical challenges ranging from complex research to routine testing to field applications.

Internship Description:

Thermo Fisher Scientific in Portsmouth, NH is looking to hire a summer intern for our Engineering Department. Our site in Portsmouth manufactures glass microscope slides as part of the Slides and Specialty Glass Business Unit, which offers a broad portfolio of offerings including Microscope Slides, Coverglass, Microarray Substrates, Hand-care Products and Custom Glass. The intern in this role may partake in projects including:

- Data entry and analysis as part of the output metrics on PPI teams.
- Daily Temperature trolling of our drying oven and data collection. This will help ensure proper process control.
- Writing of SOP/Work Instructions to allow for better process control.
- Data tracking on jams/downtime in the GWIS system and propose solutions to elevate the problem.
- Documenting the losses in material as it travels through the facility.
- Review and document the mass balance of the Wash Line so that water, chemical use and overall efficiency can be better understood.
- Assist in validation of our wash line/PLUS line/Drying oven.
- Review and document the waste water processing and treatment system to understand the point of generation of this waste. The goal would be for reduction or ultimately elimination of the source.
- Review and document the numerous HVAC systems in use. Organize and categorize systems for capacity, system expectations, and possible up-grades/replacements.
- Monitor and document operation of Screen Printing area to increase operating run time. Include set-up, run, break-down and clean-up times.
- Conduct bottle neck analysis on any of our processes to better understand output.
- Support EHS needs in researching surface water collection and discharge including possible support for state/local reporting requirements.
- Assist in the review of plant flow and material handling to suggest improvements. This could include time studies and labor reviews
- Assist with all trials and experiments to reduce our biggest defects.
Minimum Requirements:
- Students moving from their Junior to Senior year in an Electrical, Mechanical or Industrial Engineering program.
- This student must be able to work full-time hours (5 days, 40 hours/week) through the summer months.

What should the intern expect to learn from this program?
- A better understanding of how to apply Engineering concepts to real-life situations in a manufacturing environment.
- They will experience engineering project and process management in a group industrial environment
- They will see multiple disciplines of engineering skills and experience how they work together in a team to reach common goals.
- They will experience how Environmental and regulatory requirements influence business and production.

*This is a paid internship*

To apply, please visit [www.thermofisher.com](http://www.thermofisher.com) and click on “Careers” to view all openings for the Portsmouth, NH facility. CEPS students who meet the criteria above can email their resume to Daniel.Machiorlatti@thermofisher.com.