



Lauren N. Munday
Staff Consultant

lnmunday@engsys.com

Ms. Lauren Munday is an analytical chemist with a background in drug and small molecule analysis. Previous research was conducted at Loyola University Chicago where, under the guidance of Dr. James DeFrancesco, she helped develop a method for analysis of fentanyl and non-fentanyl in wastewater samples utilizing GC-MS.

While working with Dr. James DeFrancesco, she assisted in the development of a number of laboratory assignments for forensics students. These included the extraction and instrumental analysis of plant-based compounds using both GC-MS and FTIR. While attending Loyola University-Chicago, Ms. Munday also worked as a supplemental instructor in general biology, general chemistry, and organic chemistry, assisting professors in any necessary tasks, as well as instructing students.

Ms. Munday completed her Masters degree at the University of Washington, specializing in analytical chemistry. She worked to broaden her instrumental knowledge and capabilities through laboratory rotations and study. While there, she worked as a graduate teaching assistant, leading general chemistry laboratory and quiz sections. Ms. Munday insured all students followed safe laboratory protocols, while encouraging independent problem solving and team work. She also assisted in the development of new lab report worksheets for General Chemistry 3 where she worked with a small team to revise existing reports to better evaluate student comprehension and streamline the grading process.

Areas of Specialization

Instrumental analysis
Instrumental method development
Small molecule analysis and identification
Bacterial culture and modification

Education

M.S., Chemistry, University of Washington, 2018
B.S., Biochemistry, Loyola University Chicago, 2017

October 2018



Positions Held

ESi (Engineering Systems Inc.), Seattle, WA

Staff Consultant, 2018 – Present

University of Washington - Department of Chemistry, Seattle, WA

Graduate Teaching Assistant, 2017 – 2018

Center for Teaching and Academic Excellence, Loyola University-Chicago, Chicago, IL

Supplemental Instructor and Peer Tutor, 2015 - 2017

Loyola University-Chicago - Department of Chemistry and Biochemistry, Chicago, IL

Undergraduate Research Assistant, 2015 - 2017