

Kelsie Simons

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EXPERIENCE

Forensic Laboratory Supervisor

08/06 to present

**Forensic Science Program, CJ Department, Sam Houston State University
Huntsville, Texas**

- Assist the Director of the Forensic Science Program:
 - Coordinate meetings, courses, tours, seminars
 - Help develop a model curriculum
 - Help with the application of FEPAC Accreditation
 - Coordinate set up of the capital equipment
 - Develop new forms for the program
 - Review admissions
 - Coordinate with other Departments of Sam Houston State University
- Coordinates the Forensic Science Internships for Graduate Students:
 - Places students in Forensic Crime Labs Agencies
 - Create new forms and paperwork
 - Help with background checks
 - Added new internship agencies across the United States
 - Form strong University relationships with 35 Forensic Crime Labs
- Purchase Lab Supplies and Capital Equipment:
 - Brought 10 new Capital Equipment: LCMSMS; FTIR; GC NPD/FID; Axio Imager PLM; Real Time PCR; PCR; Centrifuges; Pyrolyzer; GCMS; Keyence Digital Microscope
- Manages the Laboratories:
 - Set-up laboratories with supplies and instruments for Forensic Courses
 - Supervises the chemical inventory, MSDS, software, manuals, supplies, and instruments

Analytical Chemist

10/03-08/06

**Analytical Laboratory, Sam Houston State University
Huntsville, Texas**

- Develop Bioremediation Techniques:
 - Designed experiments that utilizes microorganisms to degrade organic contaminates such as BTEX from water sources
 - Designed research to explore which metals bind to the polymer
 - Developed the polymer for binding process
- Operated Instruments:
 - GCMS; pesticides, volatiles, semivolatiles, drugs
 - Total Nitrogen Analyzer (TN)
 - Total Organic Carbon Analyzer (TOC)
 - UV Spectrometer: COD, Hexavalent Chromium
- Wet Chemistry/Sample Preparation:
 - COD, BOD, cBOD, Ammonia, pH, EC, Alkalinity, Cyanide, TDS, TSS, TS, VSS, Total/Fecal Coliforms, Salinity, Mercury and ICP metals digestion, SPE extractions, IC filter extractions

Assistant Instructor
Chemistry Department, Sam Houston State University
Huntsville, Texas

1/02-5/03

- Taught General Chemistry
- Taught Instrumental Analytical Chemistry for graduates/senior undergraduates
 - Taught the operation/theory of GC, GC/MS, GC/FID, UV-Vis., AAS, ICP
- Set-up laboratory for upcoming laboratory exercises
- Analyzed procedures and safety protocols with Supervisors

Toxicology Intern
Harris County Medical Examiners Office
Houston, Texas

7/02-8/02

- Conducted liquid-liquid extractions
- Operated and conducted maintenance on the GC/MS
- Created controlled standard curves
- Assisted in DNA/Serology, Controlled Substances and Morgue

EDUCATION

Masters of Science in Forensic Science
Sam Houston State University, Huntsville, Texas

August 2003

Curriculum Highlights: Forensic Toxicology, Instrumental Analytical Chemistry (GC, GC/MS, GC/FID, UV-Vis., AAS, ICP), Advanced Genetics (PCR, STR, RFLP), Advanced Biochemistry and Advanced Spectroscopy (2-D GCGC/MS, capillary electrophoresis)

Bachelor of Arts in Biology with Chemistry minor
Texas A&M University, College Station, Texas

August 2001