



NAME:	Fredria Bayless	DATE:	3/14/2023
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Scientist - Toxicology		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Seized Drugs	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms	<input type="checkbox"/>	Forensic Audio/Video

List all categories or sub-disciplines in which you do casework:

Human Performance Toxicology

Texas Forensic Science Commission (TFSC) Licensing

Per TFSC section 651.203, starting January 1, 2019, the following disciplines are subject to licensing: Seized Drugs, Toxicology, Forensic Biology & Firearms/Toolmarks. If applicable, select the type of license issued by TFSC (Select N/A if not applicable):

Type of License:	Toxicologist (Interpretative)
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Certifications:

Organization	Discipline	Type/Level (N/A if not applicable)

Education:

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
University of Texas Medical Branch	08/2016-08/2017	Clinical Laboratory Sciences	Certificate
National University	10/2001-01/2004 Degree Confer. 2006	Forensic Science	Master of Forensic Science (M.F.S.)
Tougaloo College	08/1997-05/2001	Chemistry	Bachelor of Science

Other Training:

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

"Ethics Training". Houston Forensic Science Center Quality Division. November 2022 "Overview of the Advanced Roadside Impaired Driving Enforcement Program". Houston Police Department. November 2022



“An Intro to ANSI/ASB Std. 036: Standard Practices for Method Validation in Forensic Toxicology”. American Academy of Forensic Sciences. October 2022

“Testimony Training Workshop”. Houston Forensic Science Center Quality Division. October 2022

The 58th Annual Meeting of the International Association of Forensic Toxicologists, February 2022

“Introduction to Pharmacology”. Houston Forensic Science Center. January 2022

“A is for Analytical to Preparative Chromatography”. Agilent Technologies. September 2021

“Nonsmoker Exposure to Secondhand Cannabis Smoke III. Oral Fluid and Blood Drug Concentration”. Journal of Analytical Toxicology. Article. September 2021

“Evaluation and Certification of Drug Caused and Related Deaths”. Center for Forensic Science Research and Education. October 2021

“Structural Characterization of Emerging Synthetic Drugs by Mass Spectrometry”. RTI International. September 2021

“Ethics Training”. Houston Forensic Science Center Quality Division. September 2021

“Autopsy of a Crime Lab: Exposing the Flaws in Forensics”. Quattrone Center. April 2021

“Advances in DUID Testing”. NMS Labsinar. March 2021

“DUID and Human Performance” Scientific Session 4. Society of Forensic Toxicologists, Virtual. September 2020

“GC-MS and LC-MS/MS Method Development- A Step by Step Guide” Workshop. Society of Forensic Toxicologists, Virtual. September 2020

“Introduction to Liquid Chromatography-Mass Spectrometry with applications to Forensic Chemistry”. Houston Forensic Science Center. December 2019

“Ethics Training”. Houston Forensic Science Center. September 2019

“Extractions”, “Benzodiazepines”, “Opioids”, “Cannabinoids”, and “Stimulants” Workshop. Southwestern Association of Toxicologists, Houston, TX. May 2019

“Testimony Training Workshop”. Houston Forensic Science Center. April 2019

“Postmortem Redistribution of Drugs”. The Center for Forensic Science Research and Education. 2013

“Answering the NAS: The Ethics of Leadership and the Leadership of Ethics”. RTI International. 2013

“Agilent Event: LC/QQQ Screening for 300 Designer Drugs and Metabolites-Archival Version”. Agilent Technologies, Houston, TX. 2013

“How to Be a Good Expert Witness”. RTI International. 2012

“Analytical Methods in Workplace Drug Testing- Sample Preparation”. RTI International. 2012

“Uncertainty Measurements II On-Demand”. RTI International. 2012

“Introduction to Uncertainty in Forensic Chemistry and Toxicology”. RTI International. 2012

“Expert Testimony for the Prosecutor and Scientist II”. RTI International. 2012

“Expert Testimony for the Prosecutor and Scientist”. RTI International. 2012

“Analytical Methods in Workplace Drug Testing- Immunoassay”. RTI International. 2011

“Courtroom Testimony Training Workshop”. Harris County. 2011

Courtroom Experience:

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified
Toxicology	2015	Once
Toxicology	2014	Once



Toxicology	2013	Once

Professional Affiliations:

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership

Employment History:

List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of duties. Please list your dates of employment by month and year.

Job Title:	Forensic Scientist	Dates of Employment:	04/2019-Present
Employer:	Houston Forensic Science Center		
Provide a brief description of duties below:			
Perform routine to moderately complex chemical analysis of human biological specimens using chemical and instrumental methodologies to detect and quantify drugs in biological and non-biological matrices. Maintains and calibrates scientific instruments to ensure required performance standards are met. Provide technical review of ELISA screened casework.			

Job Title:	Medical Lab Scientist	Dates of Employment:	02/2018-04/2019
Employer:	University of Texas Medical Branch		
Provide a brief description of duties below:			
Performed routine and complex clinical laboratory analysis of biological specimens utilizing immunoassay and mass spectrometry systems to detect drugs of abuse. Interpreted data relative to normal values based on age, sex and other pertinent conditions and reported patient results accurately with all required documentation following immunoassay screening. Recorded and evaluated quality control data according to laboratory operating procedures, as well as, monitored Levy-Jennings charts for all immunoassay instruments and documented QC performance before use.			

Job Title:	Toxicologist III	Dates of Employment:	11/2008-02/2015
Employer:	Harris County Institute of Forensic Science		
Provide a brief description of duties below:			
Performed protein precipitation, liquid-liquid, and solid phase extractions of forensic specimens for GCMS, GC-QQQ, HPLC, and LCMS analyses according to standard operating procedures. Provided			



identification and quantification of target drugs following analysis and reported casework results using JusticeTrax-LIMS. Provided testimony in court regarding forensic specimen analysis. Participated in training, proficiency, and competency testing according to established protocols and assisted in maintaining laboratory ISO 17025 standards, ABFT, and ASCLD/LAB accreditations.

Job Title:	Project Associate	Dates of Employment:	06/2007-11/2008
Employer:	Ba Research International (CRO)		
Provide a brief description of duties below:			
Managed pharmaceutical research studies; Compiled & reviewed analytical data following FDA & GLP guidelines.			

Job Title:	Production Chemist	Dates of Employment:	02/2006-06/2007
Employer:	Ba Research International (CRO)		
Provide a brief description of duties below:			
Performed bioanalytical extraction techniques; Responsible for maintaining analysis integrity by adhering to FDA regulations and laboratory standard operating procedures.			

Other Qualifications:

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

N/A