

Fred L. Collier, Jr., P.E. | Forensic Consulting Engineer

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Professional Summary:

Mr. Collier's experiences have encompassed a broad range of mechanical failure, chemical evaluations, with extensive experience in the Petroleum industry. He has a solid background in equipment maintenance, operations and project management.

His responsibilities include evaluation of mechanical equipment, appliances, and systems that result in loss or injury and examination of chemical spills, burns and incidents

Licenses and Certifications:

Registered Professional Engineer, Arkansas, License #1468

Registered Professional Engineer, Mississippi, License #16027

Registered Professional Engineer, Tennessee, License #10030

Professional Experience:

EFI Global /Unified Investigations & Sciences, Inc., Forensic Consulting Engineer, 2012-Present

Utility Solutions, LLC, Senior Engineer, 2003-2012

Williams Refining & Marketing, LLC, Manager-Refinery Engineering, 1996-2003

Williams Refining & Marketing, LLC, Manager-Maintenance and Engineering 1994-1996

Williams Refining & Marketing, LLC, Manager-Operations and Maintenance 1992-1994

Williams Refining & Marketing, LLC, Operations Manager, 1989-1992

Williams Refining & Marketing, LLC, Maintenance Services Superintendent, 1983-1984

Williams Refining & Marketing, LLC, Senior Refinery Engineer, 1980-1982

Accrabond, Inc., Vice President-Operations, 1979-1980

Humko Sheffield Chemical Company, Manager of Process Engineering, 1971-1979

Whittaker Textile Service Center, Plant Engineer, 1970-1971

Chapman Chemical Company, Senior Project Engineer, 1966-1970

Celanese Fibers Company, Process Engineer, 1965-1966

Specialized Education:

Trench Safety Instructor, Professional Development Seminars, 2017

Galvanizing-Rebar and Sustainability, Professional Development Seminars, 2017

IAQ for HVAC-Mechanical & Electrical Components-URV Capabilities, Professional Development Seminars, 2017

Thrust Restraint for Ductile Iron Pipeline, Professional Development Seminars, 2017
Electric Heat for Industrial Processes, Professional Development Seminars, 2017
Professional Ethics-Accepting Gifts and Amenities, Professional Development Seminars, 2017
The Green Turbine, Professional Development Seminars, 2017
Electrical Forensics Engineering, Professional Development Seminars, 2017
Engineering Ethics: The Piper Alpha Disaster, Professional Development Seminars, 2016
Smoke and Fire Damage, Professional Development Seminars, 2016
The Great Boston Molasses Flood, Professional Development Seminars, 2016
Centrifugal Compressor Fundamental, Professional Development Seminars, 2016
Concrete Moisture: Facts, Fiction, Reality, Professional Development Seminar, 2016
Indoor Air Quality, Professional Development Seminar, 2016
Environmental Sampling & Interpretations, Professional Development Seminar, 2016
Engineering Ethics-The Piper Alpha Disaster, Professional Development Seminar, 2016
Core Galvanize It, Professional Development Seminar, 2016
Designing for Hot Dip Galvanizing, Professional Development Seminar, 2016
Professional Ethics for Engineers, Professional Development Seminar, 2016
Corrosion and Its Control, Polyethylene Encasement (V-Bio™), for Cast and Ductile Iron Pipelines, 2016
Annual Ethics Training, Shelby County Government, 2015
Case Studies in Industrial Engineering, Professional Development Seminar, 2015
Building Information Modeling, Professional Development Seminar, 2015
Open Web Composite Joist System, Professional Development Seminar, 2015
Mold and Asbestos Abatement, Professional Development Seminar, 2015
Engineering Ethics, Professional Development Seminar, 2015
Innovation in Building Lighting, Professional Development Seminar, 2014
Retaining Walls & Restrained Walls, Professional Development Seminar, 2014
Engineering Ethics, Professional Development Seminar, 2014
Reducing Liability Risks for Engineers, Professional Development Seminar, 2014
Horizontal Drilling with Ductile Iron Pipe, Professional Development Seminar, 2014
Kansas City Hyatt Failure, Professional Development Seminar, 2014
Memphis Airport-Past, Present & Future, Professional Development Seminar, 2014
Trenches & Excavation Safety, Professional Development Seminar, 2014
What Engineers Need to Know About Meth Labs, Professional Development Seminar, 2014
Land Development Planning & Engineering, Professional Development Seminar, 2014
Investigations, Unified Investigations & Sciences, Inc. 2012,
16th Annual Conference, Tennessee Onsite Wastewater Association, 2012
Nutrient Removal at the North River WWTF, Harrisonburg-Rockingham Regional Sewer Authority, 2011
Latest Trends in Ductile Iron Pipe, Professional Development Seminar, 2011
Energy Use Intensity (EUI) & the Environment, Professional Development Seminar, 2011
Energy Use Intensity (EUI) & Mechanical Engineering, 2011
Proper Installation of Culverts, Professional Development Seminar, 2011
Proper Installation of Culverts-Part II, Professional Development Seminar, 2011
Online Document Management for Engineers, Professional Development Seminar, 2011
Installation of Ultra-Violet Devices for Air Disinfection and LEED Certification, Professional Development Seminar, 2011
Structural Engineering-Box Girders in Buildings, Professional Development Seminar, 2011
Engineering Ethics, Professional Development Seminar, 2011
True Earthquake Risk in Memphis & Need for Code Revisions, Professional Development Seminar, 2010
How to Understand & Interpret Environment Analytical, Professional Development Seminar, 2010

The Mega-Site, Professional Development Seminar, 2010
Limiting Liability Risks for Professional Engineers, Professional Development Seminar, 2010
Airport Engineering, Professional Development Seminar, 2010
Trenches & Excavation Safety Considerations, Professional Development Seminar, 2009
OSHA, Ethics & The Registered Professional Engineer, Professional Development Seminar, 2009
Downtown Redevelopment, Professional Development Seminar, 2009
Forensic Electrical Engineering, Professional Development Seminar, 2009
Lifting, Re-aligning & Stabilizing Pavements & Foundations, Professional Development Seminar, 2008
Compressed Air Systems Layout, Professional Development Seminar, 2008
Engineering Challenges with Riverfront Boat Dock Development, Professional Development Seminar, 2008
Electrical Engineering-AC/DC Circuits, Professional Development Seminar, 2008
Wind Engineering-Its Evolution & Future Technologies, Professional Development Seminar, 2008
Hurricane Hugo-The Perfect Outdoor Laboratory for Design & Code Development, Professional Development Seminar, 2008
Virtual Wind Tunnel-Software to Determine Wind Stresses on Buildings, Professional Development Seminar, 2008
Role of Engineering Firm in Preparing for Pandemic Outbreaks, Professional Development Seminar, 2008

Education:

Master of Science, Mechanical Engineering, University of Memphis, Memphis, TN
Bachelor of Science, Chemical Engineering, University of Memphis, Memphis, TN

Affiliations:

Memphis & Shelby County Joint Court of Appeals Boards