



168 West Main Street # 422, New Market, MD 21774 Tel: (301) 580-1181 www.firetox.com

BRIAN MCALLISTER, B.S.F.Sc., C.F.E.I.

EDUCATION:

B.S., Fire Science, University of Maryland, Adelphi, MD, 2016.

PROFESSIONAL EXPERIENCE:

FireTox, LLC, New Market, MD, 2017 to present.

Co-Owner, Fire Investigator and Fire Science Researcher

Support litigation and fire protection engineering design and inspection services as well as research and training initiatives. Perform investigations of residential, commercial, and industrial fires including data and evidence collection. Assist in post-fire reconstruction analysis in conjunction with fire litigation. Serve as team member on fire inspection, testing, and commissioning projects and fire science research projects. Serve as support instructor for fire death/injury and fire investigation training courses.

District of Columbia Fire Department, Washington, DC, 2001 to present.

Captain, 2018 to present

Serve as the Company Commander responsible for administrative oversight of the fire station as well as the personnel, equipment, and apparatus assigned to the fire station. Responsible for condition of building, grounds, and property connected with the fire station. Responsible for supervising employees assigned to station, performing training, maintaining discipline, ensuring safe working conditions, and carrying out assigned activities. Responsible for assisting Battalion Fire Chief in evaluating company training needs, establishing company level training schedule, and maintaining community outreach activities and special projects. Responsible for identifying target hazards, performing building inspections, and assigning inspection responsibilities to platoon commanders.

Lieutenant, 2011 to 2018

Serve as the Platoon Commander responsible for daily activities and administrative oversight of all personnel assigned to their platoon. Serve as the Platoon Commander responsible for daily activities and administrative oversight of the facility, equipment, and apparatus in their station. Responsible for supervising employees assigned to their shift, performing training, maintaining discipline, ensuring safe working conditions, and carrying out assigned activities.

Sergeant, 2008 to 2011

Serve as the on-duty Platoon Commander responsible for the daily activities and administrative oversight of personnel, the facility, equipment, and apparatus for a particular tour of duty. Responsible for supervising employees assigned to their shift, assisting in training, maintaining discipline, ensuring safe working conditions, and carrying out assigned activities.

Firefighter/EMT, 2001 to 2008

Responsible for life and property protection of residential and commercial occupancies subject to hazardous conditions; Responsible for pre-hospital care and transport of critically injured or ill patients; Responsible for maintenance and operation of fire apparatus including: fire trucks, engines, saws, and various other hand tools; Knowledge of building construction and materials and their characteristics when subjected to elevated

temperatures and structural distress; Other skills and duties include: hazardous materials operations, vehicle extrication, high angle rescue, confined space rescue, and low angle rescue.

Combustion Science & Engineering, Inc., Columbia, MD, 2003 to 2006.

Fire Investigation and Laboratory Technician, 2003 to 2006

Assist in the investigation of residential, commercial, and industrial fires; Conduct laboratory experiments for the purposes of post-fire reconstruction analysis and product failure analysis in conjunction with fire litigation; Conduct laboratory experiments for the purpose of fire modeling validation; Conduct laboratory experiments for government or corporate funded research and development; Responsible for constructing small and large-scale test compartments and outfitting compartments with thermocouples, heat flux gauges, and gas probes.

United States Marine Corps, Department of Defense, Logistics Base, Albany, GA, 1998 to 2000.

Firefighter/EMT, 1998-2000.

Responsible for life and property protection of military occupancies subject to hazardous conditions; Responsible for operating procedures involving the extinguishment of military vehicles such as tanks, Hummers, anti-personnel carriers, boats, trains, and explosive carriers; Responsible for the training of civilian and military fire department personnel in firefighting and rescue operations.

RELATED EXPERIENCE:

Silver Hill Volunteer Fire Department (1989- 2008)

Position(s) Held: Firefighter/EMT, Apparatus Driver/Operator, Lieutenant, Captain, Board of Directors Member, Apparatus Committee Member, Life Member

PRESENTATIONS/LECTURERS/APPEARANCES:

“Fire and Emergency Service Personnel Knowledge, Skills, and Maintaining Proficiency”, National Fire Protection Association, Fire Protection Research Foundation Workshop, Quincy, MA, October 1st and 2nd.

PROFESSIONAL CERTIFICATIONS:

Certified Fire and Explosion Investigator, National Association of Fire Investigators, Registration # 24940-14504
Firefighter Level I & II
Emergency Medical Technician (National Registry)
Hazardous Materials Technician
Rescue Technician (Vehicle, Trench, Confined Space, Structural Collapse, Rope Specialist)
Aircraft Rescue & Fire Fighting
Emergency Vehicle Operator & Pump Operator
Fire Service Instructor I & II
Fire Officer I, II, & III

PROFESSIONAL AFFILIATIONS:

Member, International Association of Firefighters (IAFF)
Member, International Association of Arson Investigators (IAAI)
Member, National Association of Fire Investigators (NAFI)

PUBLICATIONS:

McAllister, J. & McAllister, B. (2019). Fire and Emergency Service Personnel Knowledge and Skills Proficiency, Final Report, Fire Protection Research Foundation, Quincy, MA.

McAllister, J. & McAllister, B. (2020). Leadership: Fire and Emergency Service Personnel Knowledge and Skills Proficiency, *Fire Engineering*, October 22, 2020.