

Piedmont Medic One Foundation

Loeb Foundation 2025 Grant Request

April 2025

PART ONE

Name of Organization: **Piedmont Medic One Foundation**

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Contact Person: **Tom Litchford, 425-442-5358, t.litchford@live.com**

Total Budget for This Project: **\$133,880**

Amount Requested in This Grant: **\$96,980**

PART TWO

Background/Community Need

**Identify the community need or problem which this project will address.*

You may have heard the acronym “ABCs” used in various settings such as first aid and community CPR training. It stands for Airway – Breathing – Circulation. Establishing a patent airway and maintaining high oxygen saturation is the highest priority in any emergency medical incident. To accomplish that, Fauquier County Fire & Rescue System (FCF&RS) first responders have many tools at their disposal. One of those is an endotracheal tube (ET). This tube is inserted through the mouth and into the trachea to hold it open and to protect the patient’s airway from fluids entering into the lungs. To insert this life-saving device, the paramedic uses an instrument known as laryngoscope. Currently the direct laryngoscopes used by FCF&RS are approaching end-of-useful-life and need to be replaced. FCF&RS included replacement in their FY26 budget request but unfortunately due to budget constraints the county supervisors were unable to approve. Accordingly, FCF&RS has reached out to the Piedmont Medic One Foundation (PMOF) to inquire if we could support the project with an equipment grant.

The Piedmont Medic One Foundation partners with local organizations with the goal of providing the best quality pre-hospital emergency care and patient outcomes. In Fauquier County, the Foundation seeks to establish a close working relationship with the Fauquier County Fire & Rescue System.

FCF&RS is a hybrid career and volunteer public safety system comprising nine volunteer fire and rescue companies staffing ten (10) stations throughout the county. These dedicated professionals are critical first responders that provide both BLS (Basic Life Support) and ALS (Advanced Life Support) Emergency Medical Services (EMS) through a combination of EMTs, Advanced EMTs, Paramedics, and Critical Care Paramedics. FCF&RS covers over 650 square miles, serves over 75,000 county residents, 2,000+ business, and thousands of visitors 24x7x365 days of the year. Emergency Medical Services rely on county and/or town approved budgets and subsequent property taxes, **and individual donations**, to fund operating costs, including vehicles, paramedic salaries, equipment, and supplies. As you might

surmise, rural counties like Fauquier often struggle to completely fund public safety needs due to the lack of sufficient tax base and revenues. While the county and town governments do their best to provide the wherewithal to put paramedics on the street, the Foundation provides the extra financial support necessary to train these first responders to the highest level possible, research new methods of patient care that make our EMS systems superior programs and assure that they have the best equipment possible.

Project Description

**Provide a description and goal of the project. Explain how this project will address the need or problem.*

In addition to fielding some of the highest trained paramedics in the country, it's also imperative we provide them with the best equipment available in order to perform their jobs, and more importantly save lives. FCF&RS would like to replace their aging direct (i.e. non-video) laryngoscopes with the state-of-the-art Verathon GlideScope Go 2 Portable Video Laryngoscope System (VLs). Studies have shown that the VLs are superior when measuring "Time to intubate" and "Time to ventilate" indicating a nearly 12% improvement in failure rates over older direct laryngoscope technology. Additionally, recent studies published in the *New England Journal of Medicine* have provided new evidence favoring VLs to improve first-pass success rates for intubation. VLs is now widely considered the new Gold Standard for tracheal intubation. The GlideScope Go 2 is built for EMS environments with its durable design including Corning® Gorilla® Glass, IP67 dust and water-resistance rating, and drop tested. Another notable enhancement over the current laryngoscopes in use is its onboard storage to capture videos and snapshots to support quality improvement and quality assurance plans. Replacing the existing laryngoscopes will require purchasing 26 of the new GlideScope Go 2 VLs along with various sized "blades", training the county's career and volunteer EMS providers, and ongoing annual maintenance of the equipment.



Partial Grant

**Will the project proceed if you receive a partial grant? If so, how will you raise the remainder of the funds needed?*

It is more efficient and safer for our EMS providers – and patients - to have county-owned and volunteer-owned ambulances carrying a standardized assortment of equipment and supplies as both career and volunteer personnel are cross-staffing the available apparatus. For this reason, FCF&RS prefers to replace all the laryngoscopes county-wide at the same time including one each for a fleet of twenty-four (24) ambulances plus two (2) EMS supervisor's vehicles. Until 100% funding is available, most likely the project will be suspended with FCF&RS waiting until the FY27 budget cycle next April to attempt public funding again. If Loeb Foundation were willing to partially fund this project, Piedmont Medic One Foundation would hold those funds as restricted and prioritize additional private fund-raising efforts until at such time we could match and fund the entire project.

PART THREE

PROJECT NARRATIVE

I. Organizational Background/About the Foundation

Briefly describe the mission, activities and history of your organization.



The Piedmont Medic One Foundation is a nonprofit organization dedicated to ***saving lives by improving pre-hospital emergency care*** in the Piedmont region of Northern Virginia. Our vision is that ***no one dies from a treatable medical emergency***. Within those boundaries, the organization develops and supports the following programs: 1/ world-class paramedic training, 2/ innovative research and special projects, 3/ grants to EMS agencies to provide lifesaving tools and equipment, 4/ Community CPR/AED & First Aid training for the general population, and 5/ an EMT scholarship program to promote careers in the EMS field. Why does this matter? ***“When you have six minutes to live or die, training, research, and medical oversight count.”***

Founded in 2024, the Foundation is modeled after Seattle’s Medic One Foundation – its mission, its philosophies, its experience, and its learnings – with the goal of improving our local region’s pre-hospital emergency care systems quality and standards of care. Seattle/King County’s Medic One pre-hospital emergency care system is regarded as one of the premier pre-hospital care systems not only in the United States but around the globe. Their paramedics are considered some of the most highly skilled in the world. Tom Litchford, one of Piedmont Medic One Foundation’s founders, and current president, previously served on their board of directors.

Targeted PMOF Service Area

With its vision of saving lives by improving pre-hospital emergency care, The Piedmont Medic One Foundation supports EMS operations only in the more rural counties of what is known as northern Virginia (NOVA) as follows:

NOVA County	Targeted	Population (2023)	Area (miles ²)
Arlington	No	-	-
Clarke	Yes	15,466	176
Culpeper	Yes	54,973	379
Fairfax	No	-	-
Fauquier	Yes	75,165	648
Frederick	Future	95,994	413
Loudoun	No	-	-
Madison	Yes	14,128	320
Orange	Yes	38,574	341
Prince William	No	-	-
Rappahannock	Yes	7,414	266
Stafford	No	-	-
Warren	Future	41,843	215
		343,557	2,758

Source: US Census 2022 – www.census.gov/quickfacts (V2023)

From the table above, this project and associated grant request applies only to Fauquier County. Below is more information specific to the targeted county.

Targeted County	Population (2023)	Age 5<	Age 18<	Age 65>
Clarke	15,466	4.5%	19.2%	23.6%

Culpeper	54,973	6.3%	24.9%	17.2%
Fauquier	75,165	5.6%	23.2%	17.9%
Madison	14,128	4.8%	19.7%	23.8%
Orange	38,574	5.8%	21.6%	20.9%
Rappahannock	7,414	3.1%	15.7%	29.6%
	205,720	5.02%	20.72%	22.17%

Source: US Census 2022 – www.census.gov/quickfacts (V2023)

Fauquier County is a rural county in northern Virginia approximately 50 miles west of Washington, DC. The county comprises six general population growth areas as follows: New Baltimore (11,517), Warrenton (county seat, 10,109), Bealeton (3,964), Marshall (3,114), Remington (598), and The Plains (245). Of the 75,165 population, 23% are under 18 years of age. Demographically, the population is 75% white, 13% Hispanic, and 8% black. The median income is \$129,495 and the per capita income is \$55,864. There are roughly 28,781 housing units and 2,015 commercial establishments. The county's fire, rescue and EMS services are derived from Fauquier County Fire & Rescue System including DFREM's 180+ career staff plus nine (9) volunteer departments: Company 1: Warrenton, Company 2: Remington, Company 3: Marshall, Company 4: The Plains, Company 7: Catlett, Company 8: Goldvein, Company 10: New Baltimore, Company 11: Orlean, and Company 13: Lois.

II-C. Grant Description - Equipment

Piedmont Medic One Foundation is seeking \$96,980 to assist FCF&RS in replacing their direct laryngoscopes with new state-of-the-art video laryngoscopes throughout their fleet of 26 EMS vehicles. While this amount is substantial, it's important to take into context that the grant will impact the county's entire EMS system that includes career personnel augmenting volunteer personnel in ten (10) stations and volunteer departments located throughout the county: Catlett, Goldvein, Lois, Marshall, New Baltimore, Orlean, Remington, The Plains, Upperville, and Warrenton.

Project Budget

Following is the anticipated budget required to replace all EMS-related laryngoscopes in Fauquier County. It includes three major sections: 1/ Equipment Acquisition Expenses – those costs associated with one-time start-up of the program, 2/ Paramedic Training Expenses – those costs associated with training all county career and volunteer paramedics, and 3/ Annual Maintenance Expenses – those costs associated maintaining the equipment on an annual basis.

Budget Line Item	Unit Cost	Quantity	Extended Cost
1. GlideScope Go 2 Portable Video Laryngoscope System	\$3,400.00	26	\$88,400
2. GlideScope Go 2 Blades	\$330.00	26	\$8,580
Subtotal: Equipment Expense			\$96,980
3. EMT/Paramedic Training	2 hours @ \$55.00/hour	190	\$20,900
Subtotal: Training Expense			\$20,900
4. Annual maintenance	\$2,000.00	8	\$16,000
Subtotal: Annual Maintenance Expense			\$16,000
Total Project Cost			\$133,880

Budget Line-Item Descriptions

1. **GlideScope Go 2 Portable Video Laryngoscope System...** GlideScope Go 2 is Verathon's second generation handheld video laryngoscope system. The budget is based on providing one laryngoscope per EMS vehicle in the county (24 ambulances + 2 EMS supervisors).
<https://www.verathon.com/glidescope-visualization-systems/glidescope-go#product-highlights>
2. **GlideScope Go 2 Blades...** Each GlideScope Go 2 requires various sized "blades" based on patient size to assist in the insertion of the endotracheal tube. FCF&RS has standardized on five different blades per laryngoscope (unit) at a cost of \$55 each, or \$330 per unit, times 26 units.
3. **Training...** While transitioning from direct to video laryngoscopes should have minimal impact on a provider's existing intubation skills, each career and volunteer paramedic will require some training on the use of the new GlideScope Go 2. Additionally, EMTs and Advanced EMTs will need to refresh their ALS assist skills. FCF&RS estimates they will need to train 190 providers for 2 hours at \$55/hour. Should it receive equipment through this grant, they are committing to training all personnel on use and care of these new instruments and absorb these costs.
4. **Annual Maintenance...** Each GlideScope Go 2 comes with a two-year warranty. Their useful life is estimated to be 10 years. FCF&RS, should it receive equipment through this grant, has agreed to absorb ongoing maintenance costs beginning in year three and continuing for the remainder of the instruments' useful life.

PART FOUR

FINANCIAL AND OTHER INFORMATION

The application form cannot be submitted without the following documents. NOTE- All documents must be in PDF format:

- Income Statement
- Balance Sheet
- Operating Budget
- IRS Letter
- Board of Directors