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**White Paper
on the
Dayton Regional STEM Fellows Program**

AFA’s Wright Memorial Chapter voted to sponsor a STEM Fellow to support STEM development within our region of the country. The Chapter will support a Fellow through a \$4,000 grant to the Montgomery County Educational Services Center. Annually this program supports professional development to approximately 20 districts in the Dayton region including private and charter schools. Since inception, programming efforts impacted over 100,000 regional students and hundreds of professionals interested in positively impacting student understanding and self-efficacy in science, technology, engineering, and math.

Why This Is So Important

It an Air Force report titled “[Examination of the U.S. Air Force’s Science, Technology, Engineering, and Mathematics \(STEM\) Workforce Needs in the Future and Its Strategy to Meet Those Needs](#)”, it identifies the military’s competitive edge depends on continuous investment in research and development (R&D); rapid fielding of enhanced capabilities; and rapid development of operational tactics, techniques, and procedures. STEM skills and expertise are critical across the entire range of activities and processes associated with the development, fielding, and employment of operational capabilities.

How This STEM Fellows Program Helps the Air Force

Through this grant, approximately 15 teachers are selected to attend a specialized eight-month STEM teacher development program; open to Pre-K - 12th grade teachers in the Dayton Ohio region. The STEM Fellows program is a 15-session model encouraging teachers to become a community of teacher-learners who share a common ambition to provide their students with rigorous and relevant classroom experiences that engage student’s minds and ignite their imaginations. These teachers impacted over a 1,000 students, fostering a rich understanding of STEM practices and career fields through interdisciplinary problem based experiences.

How This STEM Fellows Program Supports AFA’s Mission

Our goal is to advocate, educate, and support the Air Force through community involvement. Few programs we conduct have a greater impact on the future of the Air Force, and reach as many people, as the STEM Fellows Program. To ensure teachers and students understanding our role, all stakeholders will be made aware the *AFA Wright Memorial Chapter* sponsored their participation and learning.

AFA’s Wright Memorial Chapter is *proud* to be able to assist in development of STEM teachers in our region of the country.

Attachment 1

Additional Information and Links

[Dayton Regional STEM Center \(DRSC\)](#)

[STEM Fellowship Program](#)

Watch the inspiring STEM Fellows Video Series

[DSRC Industry and Higher Education Recruiting](#)



Industry and Higher
Ed Recruiting Flyer 20

Check your computer Adobe application to open

[DSRC Fellow Letter](#)



DRSC Fellow
Letter.pdf

Check your computer Adobe application to open