Skills Used

Applied Probability & Statistics

- Markov Chains
- Regression
- Statistical Process Control
- Design of Experiments
- Data Mining
- Forecasting

Modeling & Simulation

- Monte Carlo Methods
- Discrete Event Simulation
- Campaign Modeling
- Queuing Theory

AFOR

Air Force Operations Research

Competitive Advantage Through Analytic Insight

Optimization

- Linear /Nonlinear Programming
- Network Flows
- Scheduling

Decision Analysis

- Decision Trees
- Value-Focused Thinking
- Analytical Hierarchy Process
- Game Theory

Advanced Analytics & Coding

- Artificial Intelligence
- Machine Learning
- Bayesian Statistics
- Python, R, C++, VBA & More

Air Force Operations Research Analysts
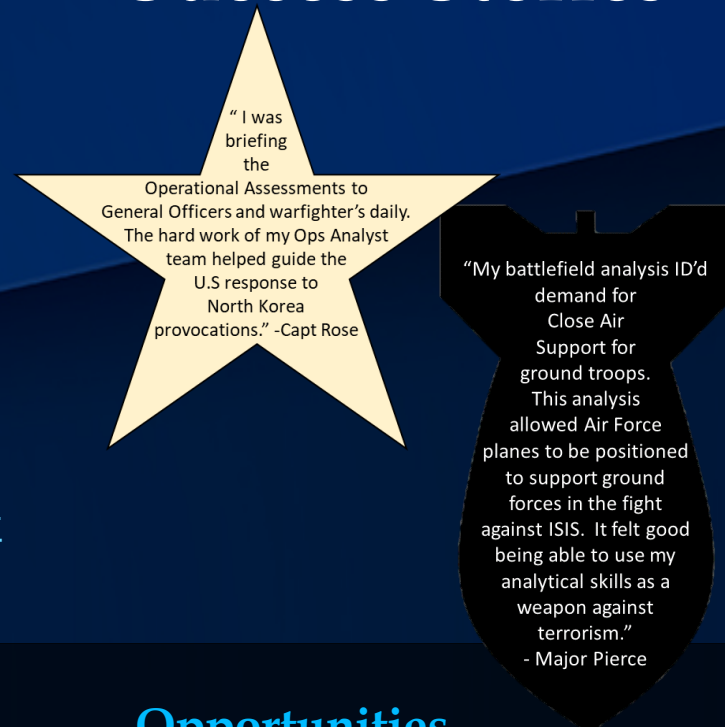
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Assignments

Operations, Intel, Cyber, Logistics, Space, Acquisitions, Staff, Corporate, or Academia

Mission

Solve problems in complex environments, evaluate potential solutions, and communicate independent, objective, and data-driven recommendations to commanders and decision-makers in support of current and future operations

Success Stories

" I was briefing the Operational Assessments to General Officers and warfighter's daily. The hard work of my Ops Analyst team helped guide the U.S response to North Korea provocations." -Capt Rose

"My battlefield analysis ID'd demand for Close Air Support for ground troops. This analysis allowed Air Force planes to be positioned to support ground forces in the fight against ISIS. It felt good being able to use my analytical skills as a weapon against terrorism."
- Major Pierce

Requirements

Earn a bachelors degree in:

- Operations Research
- Math/Statistics
- Data/Computational Science
- Industrial/Systems Engineering
- Quantitative Economics
- Similar technical degree

Complete an AF commissioning program:

- Air Force Academy
- Reserve Officer Training Corps (ROTC)
- Officer Training School (OTS)

Benefits

Multiple training paths:

- AF Sponsored master's degree at the Air Force Institute of Technology for 1st AF assignment
  - *Enter Active Duty summer of graduation*
- Complete an online O.R. Mini-Master's

Make a difference:

- Provide analysis directly impacting the fight
- Employ scientific methods
- Use advanced tools and technology
- Provide analytical power that no ordinary software or spreadsheet can deliver

Receive on-the-job training & mentorship

Opportunities

Become a Combat Analyst:

- Deploy & solve complex analytic problems
- Influence real-time Combatant Commander decision-making
- Participate in warfighting exercises

Multiple broadening assignments:

- Cross career field training
- Test Pilot School
- Air Force sponsored Prestigious PhD
- Education with Industry
- Instructor/Professor