United States Navy Air Combat Analyst

Organization
Naval Air Warfare Center – Aircraft Division
Location: Patuxent River, MD
Branch: Air Combat Effectiveness (NAVAIR 4.0M.1.2)

Position
Air Combat Analyst (Civilian)

Work
- Assess the performance of existing and conceptual missiles, aircraft, and sensor suites
- Analyze the overall combat capabilities of sub-systems (e.g. radar, RWR) and systems-of-systems (e.g. many aircraft employing coordinated tactics) in achieving military objectives
- Maintain air-to-air combat expertise via interaction with fleet and fleet exercises
- Interact with fighter pilots to determine current and future needs
- Model missiles, aircraft, radars, IRSTs, seekers, and aircrew in air combat scenarios
- Research methods and technologies to improve the effectiveness of naval aviation and analysis

We are looking for U.S. citizens who:
- Possess a genuine desire to understand complex multi-disciplinary problems and relationships
    - We build and modify the tools needs to solve a problem, rather than repeatedly applying the same tools to varying problems
- Have a strong interest in aerospace and fighter aircraft
- Are engineers/scientists/mathematicians with interest in some of the following areas:
    - Radars
        - Modeling and simulation, design, signal processing
    - RF Engineering
        - Sensor design, signal processing, circuit design
    - IR Engineering
        - Mid-wave/long-wave signature and detection
    - Aerospace Engineering
        - Aircraft performance, dynamics
    - Software Development
        - Harnessing big data: machine learning; database management; data visualization
        - Languages of Interest: Python and Fortran
    - Statistics and Design of Experiments
        - Analyzing stochastic data to determine trends
        - Designing experimental matrices and fitting meta-models

Points of Contact:

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"Fight to fly, fly to fight, fight to win."