

AFRL FY16 Research Topic Template – DAGSI – AFIT - USAFA

1. **Research Title:** Training Techniques for Rigor to Information Analysts

2. **Individual Sponsor:**

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3. **Academic Area/Field and Education Level:** Cognitive Systems Engineering, Human Factors, Cognitive Psychology, Education, Cognitive Science, Computer Science (BS/BA acceptable, MS or PhD preferred)

4. **Objectives:** Design and develop engaging concepts/prototypes/training materials for teaching novice information analysts how to employ research based techniques for increasing the rigor of their analysis processes.

5. **Description:** An emerging collection of research with intelligence and information analysts has identified generic analytic behaviors that tend to promote rigorous analysis processes and produce better outcomes across analytic domains—for example increased investment in broadening and prioritizing analysis time over production time was found to correlate with higher quality outputs. In contrast with perspectives on analysis tradecraft that emphasize personality characteristics or the application of specific named methods as enablers of rigor, these findings focus on the specific activities that an individual employs in the course of their analysis process and then looks to provide feedback on analysis quality derived from unobtrusively collected process data. Research projects related to this topic should focus on identifying effective methods for training the key cognitive skills that improve analytic rigor. Of particular interest are projects that leverage “gamification” approaches for increasing interest in and the impact of training intervention.

6. **Research Classification/Restrictions:** Unlimited public release.

7. **Eligible Research Institutions:** Indicate to what organizations this topic should be provided. Check all that apply.

DAGSI

AFIT (only)

USAFA (only)

If you are submitting a topic for the USAFA, please indicate if you are also interested in sponsoring a USAF Cadet in summer of 2014 (Avg Cost for USAF Cadet for 33 days was \$5000)

Yes No