



## Example for Submitting a Research Topic Proposal

### RESEARCH TOPIC PROPOSAL FORM (LIMIT OF TWO PAGES) IC POSTDOCTORAL RESEARCH FELLOWSHIP PROGRAM

**Name:**

**Organization:**

**Telephone Number:**

**Email Address:**

**Research Topic Title:** Methods and Techniques for Training Intelligence Professionals to Perform Scientific and Technical Intelligence Analysis

**Proposed Research Project:**

The goal of this proposal is to advance technical intelligence by developing new, more effective training methodologies. Possible research may include an examination and extension of the ideas and strategies from the fields of technical and higher education.

**Technical Objectives:**

- Content – Determine the nature of successful analysis and the knowledge, skills, and abilities analysts need to succeed. Consider the importance of the cognitive and perceptive dimensions of intelligence analysis.
- Materials – Discover innovative and effective tools for teaching analysts how to approach problems that involve a high degree of uncertainty and misdirection. This may involve research in human factors, and industrial and cognitive psychology.
- Presentation – Discover optimal methods for presenting the materials and teaching the intelligence trainee. This may involve research into computer-based training concepts, individual learning styles, and the effects of prior training, education, and environmental factors.

**Goals:**

Possible outcomes from this research include a white paper or thesis describing the research in these areas. It also could describe the practical application of the results in the form of a syllabus and manual of instruction. The emphasis will be on the “who, what and how” of instruction so that the methodology can be applied to specific intelligence disciplines in a consistent fashion.

**Relevance to the Intelligence Community:**

The Intelligence Community (IC) must continuously ensure that its Scientific and Technical Intelligence (ST&I) professionals are of the highest caliber and expertise. The opportunity and challenge is to develop a training methodology that builds on the technical expertise of scientists and engineers and ensures that they have the critical thinking skills and tools they need to fulfill the IC's requirement for qualified S&TI professionals. This training would empower scientists with the "art" of intelligence analysis. At the same time, it would benefit non-technical specialists, advancing their understanding and appreciation of the role of existing and new technologies in military and civilian affairs.

**An unclassified resume of the proposed IC Advisor (also limited to two pages) is attached (yes or no): Yes**