

Opportunity Title: Deterrence that disintegrates in daylight: military deterrence based on hidden capabilities

Opportunity Reference Code: IC-18-10

Organization Office of the Director of National Intelligence (ODNI)

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How to Apply **Create and release your Profile on Zintellect** – Postdoctoral applicants must create an account and complete a profile in the on-line application system. **Please note: your resume/CV may not exceed 2 pages.**

Complete your application – Enter the rest of the information required for the IC Postdoc Program Research Opportunity. The application itself contains detailed instructions for each one of these components: availability, citizenship, transcripts, dissertation abstract, publication and presentation plan, and information about your Research Advisor co-applicant.

Additional information about the IC Postdoctoral Research Fellowship Program is available on the program website located at: <https://orau.org/icpostdoc/>.

If you have questions, send an email to ICPostdoc@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline 3/12/2018 11:59:00 PM Eastern Time Zone

Description **Research Topic Description, including Problem Statement:**

Sometimes the way to win a fight is to use a resource or technique that the adversary has never seen before. It is exactly because the adversary has little knowledge of the resource that makes it strong; advertising it would erode its strength. This prevents advertising the resource, which undermines the ability to credibly illustrate relative strength, which lowers deterrence and increases the probability of a fight. Game theoretical analyses have considered deterrence at length, as well as deterrence under uncertainty, but there has been much less analysis of the strategic ramifications of resources that *must* remain hidden to be strengths.

- Questions include:
 - Are there consistent consequences of such resources being in play, for either or both parties?
 - Are there optimal behaviors if one has such resources, or if one suspects an adversary has them?
 - Are there conditions in which it is preferable to reveal such resources?
 - Are there ways such resources can be stabilizing (i.e.,



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prevent a fight)?

- Are there ways to move from a destabilizing regime to a stabilizing regime?

Example Approaches:

- Analytical game theory.
- Simulations (e.g. agent-based modeling).
- Historical analyses.

Note: No Human Subject Research is authorized for the IC Postdoctoral Research Fellowship Program.

Qualifications

Postdoc Eligibility

- U.S. citizens only
- Ph.D. in a relevant field must be completed before beginning the appointment and within five years of the application deadline
- Proposal must be associated with an accredited U.S. university, college, or U.S. government laboratory
- Eligible candidates may only receive one award from the IC Postdoctoral Research Fellowship Program.

Research Advisor Eligibility

- Must be an employee of an accredited U.S. university, college or U.S. government laboratory
- Are not required to be U.S. citizens

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Communications and Graphics Design** (6 )
 - **Computer, Information, and Data Sciences** (16 )
 - **Earth and Geosciences** (21 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (14 )
 - **Life Health and Medical Sciences** (45 )
 - **Mathematics and Statistics** (10 )
 - **Other Non-Science & Engineering** (5 )
 - **Physics** (16 )
 - **Science & Engineering-related** (1 )

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- **Social and Behavioral Sciences** (28 )