

**2026 Young Faculty Award (YFA) Research Announcement (RA)**

**DARPARA2502**

**Frequently Asked Questions (FAQs)**

**as of 10/9/25**

*Technical questions for TAs should be submitted to [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil) . All FAQs will be updated on a continual basis.*

**1. Coherence and Entanglement in Nuclear Processes**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**2. Relativistic Quantum Information Processing with Spacetime Diamonds**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**3. 3D Micromachined MEMS Microsystems**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**4. Biomarkers of Mild Psychological and Neural Damage**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**5. The Numerical Analysis of Agentic Artificial Intelligence (AI) Interactions**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**6. Calibrated Plasma Measurement with Traceable Uncertainty**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**7. Enhancing Underwater Communication and Detection**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**8. DNA Rapid Access Memory**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**9. Designer Biocondensates**

1Q: The call mentions applications in crop protection or degradation of chemical and biological threats. Would a proposal focused on more fundamental mechanisms—such as the roles of condensates in genome regulation—still be considered within scope for this topic?

1A: This YFA topic is first and foremost focused on the mechanisms underlying formation and organization of biocondensates/ phase-separated domains. The application spaces listed in the topic description serve as examples, but proposers are not required to exclusively address crop protection and chemical degradation to be considered.

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**10. Combat-Oriented Magnetic Physiological Assessment Sensor Systems (COMPASS)**

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**11. Unlocking Next Generation Separations**

1Q: For TA 11, Would DARPA prioritize (1) research that implements and designs novel materials to achieve enhanced/biomimetic separations or (2) research that studies the fundamentals of transport/selectivity related to such novel/biomimetic separation materials?

1A: DARPA is not interested in a fundamental paper study suggested by (2) or fundamental design studies that do not test on relevant inputs. DARPA is interested in research that develops novel materials for enhanced separations which may include biomimetic design and testing of these materials. These materials should offer benefits over traditional materials in fundamental areas such as mass transport and selectivity and experimentally demonstrate those advantages.

**12. Bioprinted Living Meta-Materials (BioLiMMA)**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**13. Formal Assurance and Loss of Control Containment of AI**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**14. Control theory of Large Language Models (LLM)**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**15. AI and the Future of Work: Surfacing Task-Level Opportunities for AI Adoption**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**16. Formal foundations for Informal Math (FIM)**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**17. Grounding Symbolic Robotic Knowledge**

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**18. Compiler Infrastructure Beyond Traditional Compilation**

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**19. Molecular Machines for Advanced Materials**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**20. Energy Harvesting in Lunar Regolith**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**21. Visible and UV Photonic Integrated Circuits**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**22. Pliable Packaging for Polymorphic Power (PPPP)**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**23. Optical Memory for Photonic Integrated Circuits**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).

**24. Advancing Fully Integrated Microfluidic Systems**

No FAQs for this topic. If you have a technical question, please email [YFA2026@darpa.mil](mailto:YFA2026@darpa.mil).