

Key Takeaways from "A Quantitative Assessment of Department of Defense S&T Publication Collaborations"

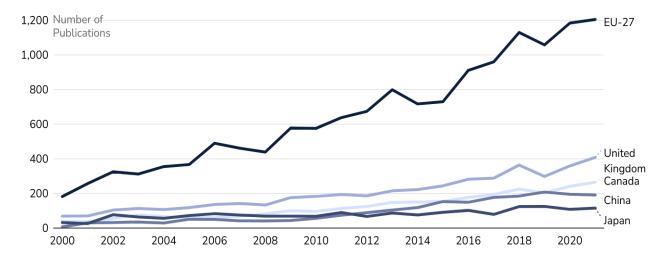
We reviewed 136,000 research papers from authors affiliated with the U.S. Department of Defense or one of its federally funded or university-affiliated research and development centers (FFRDC/UARCs) and found that:

- 86% of the papers included an author from the DOD, 12% had an author from a DOD FFRDC/UARC, but co-authorship by a DOD and FFRDC/UARC author represented only 2% of the papers.
- Whether it was with a DOD or FFRDC/UARC, papers co-authored with researchers from
 academia, another government lab, a private company, non-profit organization, or
 international organization represented 31% of the papers. Co-authorship with private industry
 was relatively low compared to its R&D efforts. While industry may be less inclined to publish
 basic research, given the size of this discrepancy, researchers should examine if the present
 rate of co-authorship is at an optimal level for U.S. strategic goals to benefit from private
 research.
- Half of the top 10 universities co-authoring papers with DOD-affiliated researchers are also home to an FFRDC/UARC. If the DOD wishes to further diversify its engagement with academia, it may consider how to replicate the FFRDC/UARC advantage on other campuses.

Table 1. Top Co-author Institutions, by Type

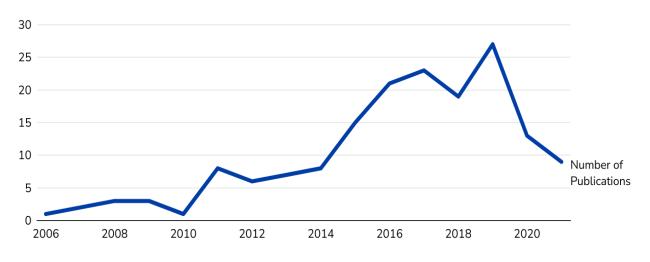
	Academic Top 10	Other	Governmental Top 10	Р	rivate Sector Companies
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Massachusetts Institute of Technology University of Maryland, College Park University of Washington Johns Hopkins University University of Michigan, Ann Arbor University of Dayton University of Colorado, Boulder University of California, Los Angeles George Mason University Pennsylvania State University	Ce 2. Na He 3. Jet 4. Lai 5. Na Sta Tee 6. An 7. Na 8. Un 9. Gle 10. Na All	addard Space Flight Inter Inte	2. 3. 4. 5. 6. 7.	Science Applications International Corporation UES Leidos Lockheed Martin Sotera Defense Solutions General Dynamics University Surgical Associates Boeing Northrop Grumman

 4% of papers included an international co-author, most frequently from one of the 27 member states of the European Union. China is the fourth most frequent country listed among international co-authors, however, unlike other top collaborators the number of co-authored papers decreased between 2019 and 2021.



Source: OpenAlex

 While never a substantial number over the 11-year period, co-authorship between DODaffiliated authors and authors affiliated with China's Seven Sons of Defense has notably decreased since 2019.



Source: OpenAlex

For more information:

- Download the report: https://cset.georgetown.edu/publication/a-quantitative-assessment-of-department-of-defense-st-publication-collaborations/
- Contact us: <u>cset@georgetown.edu</u>