



**YOUNG LEADERS**  
PROGRAM

**WASHINGTON NEEDS TO BOLSTER  
EFFORTS TO RETAIN U.S.-EDUCATED  
FOREIGN TECH EXPERTS AMID  
COMPETITION WITH CHINA FOR TOP  
AI-TALENT**

BY TABATHA T. ANDERSON

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*Caption: AI-Generated Image, Microsoft Bing Image Creator from Designer, 28 January 2024.*

The U.S.-China tech competition is unlikely to slow down in the near term, particularly with the arrival of rapidly maturing commercial artificial intelligence (AI). Though not without [risk](#), even the most nascent AI applications hold significant [promise](#) for countries able to effectively develop and integrate their potential to support national goals. In this commentary written for Pacific Forum's [Young Leaders Blog](#), I reflect on these trends after attending

the [Techno-Optimism, Geopolitics, and the Future of AI](#) workshop hosted by the [Center for Global Security Research](#).

A major factor in a country's ability to harness AI is its human capital. The abundance of a high-skilled AI-relevant labor force will increasingly serve as a major determinant in the U.S.-China tech competition. Whichever country hosts the leading minds on AI will enjoy a critical first-mover advantage in defining the direction of the emerging AI-integrated global economy.

Despite the high stakes of ongoing tech competition, recent diplomatic overtures between the two sides indicate a shared appetite for peaceful rivalry. The legacy U.S.-China Science and Technology Agreement was [extended](#), though temporarily, in early March. Less than two months earlier, a [readout](#) of a late January meeting between U.S. National Security Advisor Jake Sullivan and PRC Foreign Minister Wang Yi in Bangkok, Thailand, stressed the need to avoid "veering into conflict or confrontation" in all domains of the relationship. A nod to an anticipated spring 2024 bilateral on AI further indicates Washington and Beijing's mutual willingness to impose guardrails on a fast-moving industry integral to the national interests of both. Yet, even with signs of limited rapprochement between the two, the perceived existential urgency characterizing the great power tech competition remains high among decision-makers in both countries.

Part of the anxiety stems from fear regarding the weakened post-pandemic global economy, which—although steadily improving—still exists as a reminder of the uphill battle for economic growth faced worldwide. In a January 2024 report, the IMF raised its [forecast](#) for world GDP output in 2024 to 3.1%, up from 2.9%, largely due to the better-than-expected performance of the U.S. and Chinese economies. Accordingly, both the U.S. and China saw improved growth outlooks, with increases to 2.1% from 1.5% and 4.6% from 4.2%, respectively.

However, several notable challenges remain for Beijing and Washington—to differing degrees—as they attempt to revive and sustain increased growth,

including but not limited to: high inflation, high unemployment, low consumer spending, and low investor confidence. The [record](#) high reached by China's latest debt-to-GDP ratio, coupled with [record](#) low inflows of foreign direct investment, are increasingly worrying variables pushing Chinese leadership to go all-in on [investment in AI](#) and other emerging technologies as a hopeful long term economic offset.

Within this context, the speed with which major economies have been willing to adopt and adapt to integrated AI systems across public and private institutions, companies, and organizations appears primarily strategy-driven. To be a late adopter is to be left behind—and with a technology that enjoys major advances every few months, there is minimal room for delay.

The business use case has already proven the profitable nature of early adoption, despite the limitations present in today's nascent models; in McKinsey's 2023 Global Survey, organizations that had incorporated AI were already reaping a fifth of their gross earnings directly from the technology. These results are unsurprising given the numerous ways in which AI can enhance commercial [operations](#), such as optimizing pricing and workforce capabilities, identifying previously overlooked markets or niches, and transforming traditional predictive planning, risk mitigation, among other complex and historically time-intensive analyses.

The McKinsey report also indicated that companies that are early-adopters of AI technologies have both continued hiring for legacy roles (like broad-purpose software engineers) as well as for increasingly specialized roles (like generative AI prompt engineers). Said companies expressed an additional expectation to invest significantly in reskilling their existing workforce to address the evolving needs of the industry going forward.

On top of these initiatives taking place within the private sector, U.S. policymakers have made strides toward cultivating a homegrown AI-ready workforce via the landmark Creating Helpful Incentives to Produce Semiconductors [\(CHIPS\) and Science Act](#)

and [Executive Order](#) on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence.

However, both the private and public sector planning for integrating AI skillsets require a crucial ingredient to bear fruit: time. Easing the path for highly skilled relevant foreign experts to remain in the U.S. and contribute to the AI industry would allow for the time necessary to develop local field-relevant talent. To capture and preserve a meaningful lead in tech competition with China in the short term, the U.S. must first revamp the aging [H1-B](#) temporary visa regime to allow highly educated and skilled foreigners to fill positions most relevant to the development of AI.

According to the latest [statistics](#) by the American Immigration Council, the Congress-approved cap of individuals able to obtain H1-B visas has remained the same since 2006: 65,000 entries, plus an additional 20,000 for graduates from U.S. master's and doctoral degree programs. Beyond the strict cap, the H1-B process is known to be extremely costly for applicants and the companies willing to sponsor them, with [costs](#) increasing due to inflation. In October 2023, the U.S. Department of Homeland Security and U.S. Citizen and Immigration Services proposed [changes](#) to modernize and improve the efficiency of the H1-B process, but the suggested amendments do not address the harmful nature that strict caps have on U.S. national security imperatives.

With a rich stream of foreigners coming to study advanced technology-related degrees at its internationally recognized elite education institutions, Washington possesses a decisive advantage that Beijing [lacks](#). The time is now for Congress to make substantive improvements to the entry process for individuals who want to work in the U.S. and contribute to its vision of global AI leadership. Raising the cap of allotted visas would be a crucial first step; different caps could be introduced for positions of particular national importance if a comprehensive revamp of the nonimmigrant visa proves unpopular as a bipartisan issue.

Amending the H1-B visa process would not, of course, guarantee a permanent lead for the U.S. over China in the wider tech competition; but it would provide a meaningful boon that will allow the U.S. to maintain competitive momentum as it seeks to educate a complementary homegrown workforce over the next decade and beyond.

*Disclaimer: This article reflects on the two-day workshop “Techno-Optimism, Geopolitics, and the Future of AI” convened by the Center for Global Security Research (CGSR) at Lawrence Livermore National Laboratory (LLNL) on January 17-18, 2024. The views expressed in this piece are the author’s own.*