

TANIUM, a cybersecurity startup (valued at over 9 billion), describes itself as a group of “diverse problem solvers driven to do the right thing.” They value “sustainability” – by *aiming to reduce* “the number of non-environmentally friendly products” in their offices by a groundbreaking “15%” **What does Tanium really do? Supply security systems for the biggest polluters in the world: Chevron and 5 branches of the US armed forces.** Tanium has received 750 million to manage federal cyber security, software which is “deployed at more than 130,000 endpoints across Army, Navy, and Medical Joint Active Directory environments.” Tanium works hard to make sure that the military can continue its killing sprees and Chevron can keep building oil pipelines - free from pesky cyber-attacks! Thanks, Tanium!

SANDIA NATIONAL LABORATORIES will tell you that they are “the nation’s premier science and engineering lab” working on “homeland defense” and “global security.” But what is it they really do? Design the “non-nuclear elements of nuclear bombs” and create things like the first “self-guided” bullet. The laboratory was operated by UC Berkeley until 1949, when it was made a subsidiary to AT&T. In 1979 it was made a national laboratory, and in 1993 made a subsidiary of Lockheed Martin till 2017. Now it is a “private company” that **received 923.8 million from the Dept. of Defense, 53.8 million from the Dept. of Homeland Security, and 129.5 million from “other federal entities”, and most damningly: 2.5 BILLION dollars from the National Nuclear Security Administration. What was this money for?** Groundbreaking research on nuclear energy? Nope. **Weapons activities! Aka, building nuclear bombs, missiles, and other weapons.** Sandia is keeping the “globe secure” by creating bullets that can kill people abroad as efficiently as possible and keep the homeland “secure” by dumping billions into nuclear weapons! But don’t worry – they don’t put the nuclear material in the bomb – they just design every other non-nuclear part!

US BANK, the 5th biggest bank in America, keeps capitalism moving smoothly. They extort the people with overdraft fees and predatory loans while cutting loans to the rich for all their varied exploitative projects, whether it be gentrification (new luxury housing) or starting a new war. The Department of Defense and Homeland Security contracts with US Bank (since 1999), to process millions of freight invoices electronically each year. Greasing the wheels of the war machine, US Bank makes sure resources can flow smoothly from the government to defense contractors back to the military. US Bank also touts its paper-thin policies that will “address the impacts of climate change” aiming to reach “net zero greenhouse emissions by 2050.” Good luck reaching net zero after investing 30 million dollars in Securancy (cryptocurrency company)! Cryptocurrency *only* consumes twice as much energy as Amazon, Google, Microsoft, Facebook, and Apple combined!

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“SHUT UP AND CALCULATE”

Maybe your STEM profs have never told you this outright, but it’s nevertheless a fitting refrain for how scientists and engineers in the US have been trained to approach their work since World War II, when the government needed a lot of hands on deck to build nukes (including here at Cal!) but didn’t care to deal with objections or dissent from anyone who dared to pause and think about the bigger political picture...

Today, profit-hungry corporate executives and their cronies in the military and university administration are pouring hundreds of billions of dollars per year into developing more efficient killing machines and surveillance technology, new “innovative” medicines that no one can afford, better ways to squeeze fossil fuels out of the ground, and novel algorithms to keep us addicted to social media apps. The university collaborates with oppressive companies and government agencies to recruit more and more worker bees, all the while telling students our future careers are about “science for science’s sake,” or “mainly non-military applications.” Or perhaps, “solving the biggest challenges of our time” (just don’t ask your boss where those challenges came from). But what they are really telling us to do is ... shut up and calculate.



MOVE OVER HANDSHAKE, HERE ARE THE HONEST BIOS STUDENTS SHOULD READ:

BOEING advertises itself as “a leading global aerospace engineer” and claims to be “committed to innovating for the future, leading with sustainability.” Their website is quick to display sleek, modern passenger airplanes, scientists in lab coats, and whimsical portraits of space: **one might never guess that they are the second largest arms producer in the world.** Since the company was founded around World War I, Boeing has worked closely with the U.S. government, supplying the military with aircraft, weapons, and intelligence, fueling the military-industrial complex. Today, the Defense, Space, and Security Unit is Boeing’s largest revenue source - which is almost fully funded by the U.S. government. The guided missiles, bombs, attack helicopters, surveillance, and radar systems that Boeing produces kill countless people: not only soldiers in other countries, but also civilians and refugees caught in the crossfire. **Boeing doesn’t just work with the US; they operate in 150 countries and supply weapons to many of them, including Saudi Arabia, Israel, and Egypt.** Boeing turns a profit by collaborating with the US government and oppressive governments abroad to maintain the ruling class’s global dominance through violence.

TESLA woos its enamored shareholders with promises to exponentially expand passenger vehicle production within the coming decades, all while 'accelerating the world’s transition to sustainable energy.' While the company's current model for solving climate change is to sell luxury vehicles and solar roofs to rich people, soon they are hoping to market electric cars to the entire US working class! Of course, it may require hundreds of thousands of working people here and abroad to spend 12 hours a day, 6 days a week in grueling physical conditions at the Giga Factories for years at a time... When the rubber hits the road, **even Tesla CEO Elon Musk can't deny the company's insatiable hunger for raw materials** to fuel this growth. **In response to comments about Tesla's direct interest in the US-led coup of President Evo Morales in Bolivia to secure better control over the country's lithium deposits, Musk tweeted, 'We will coup whoever we want! Deal with it.'** Sometimes you can't mine metals on the other side of the planet without getting your hands a little dirty.

THE NATIONAL SECURITY AGENCY has been at the forefront of efforts to expand government surveillance. Since the early 2000s, its power and ability to surveil has grown substantially. **Today it monitors hundreds of millions of text messages, including at one point all international communications on the Internet** - not at all privacy violation for tens of millions of people! Despite some legislation to restrict its powers, the NSA has continued to collect phone calls it was not allowed to legally collect. **Not surprisingly, the NSA's efforts have involved substantial racial profiling, especially of Muslim immigrants. It has turned over Arab-Americans' surveillance records to Israel and spied on foreign governments - two ways the NSA constantly advances US interests to dominate the world.** The NSA is emblematic of the increasingly incestuous relationship between corporate interests and the government. The NSA former Chief of Staff has hired dozens of former senior NSA employees for a firm that does surveillance for Fortune 500 companies. This firm works with Amazon, (to the tune of a \$10 billion contract!), notable for its brutal treatment of warehouse workers, some who recently unionized and are facing intense backlash for doing so.

AEROJET ROCKETDYNE, with publicity full of pictures of planetary landers, astronauts, and stars, advertises itself as a company for dreamers and innovators hoping to push the bounds of human knowledge. However, its most of its work is not research for space exploration, or other scientific curiosity. Aerojet Rocketdyne **builds weapons of mass destruction** intended to wipe out huge swaths of people. With hypersonic and tactical missiles in their repertoire, as well as a new underwater torpedo-building facility opened just last month, Aerojet create the weapons America uses to “subdue” (murder!) the masses from afar. **Anti-tank Javelin weapons deployed in Ukraine right now use Aerojet’s rocket motors!**

INTEL says they create “world-changing technology that enriches the lives of every person on Earth” leading to advances in “AI, analytics, and cloud-to-edge technology.” What they won’t tell you is what that technology is used for. **Intel’s 5G and cloud computing technology is a key part of the infrastructure of the US military**, and Intel has a “memorandum of understanding” (contract) with Lockheed Martin to exclusively use their 5G technology in their ground vehicles (tanks!) and other inventions. Intel has received billions from the government to start semiconductor manufacturing plants so the US can rely on domestically made chips for personal and military technology, as the escalation of potential war with China continues. **On top of billions for semiconductor production, the government swarded Intel \$140 million to integrate special-purpose government chips with their commercially available silicon - not just making chips that down the line will be used for military means, but specially engineering chips for military technology!**

