



# DEPARTMENT OF DEFENSE RESEARCH

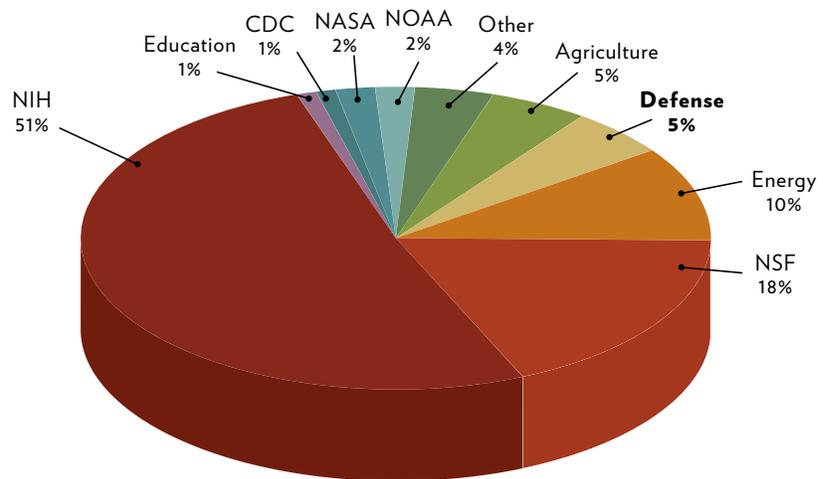
**UW-MADISON: RANKED #8 NATIONALLY WITH \$1.3 BILLION IN ANNUAL RESEARCH EXPENDITURES**

The Department of Defense (DoD) Science and Technology (S&T) account and the Defense Advanced Research Projects Agency (DARPA) support research that leads to the development of new weapons systems, defense capabilities, and warfare technologies. Discoveries from defense research have led to shifts in military capabilities that support the U.S. Armed Forces and play a vital role in ensuring the U.S. has medical technologies to support military readiness.

At UW-Madison, DoD funding supports research ranging from restoring vision in wounded soldiers to preserving transplanted organs.

## \$34.1 million

Dept. of Defense federal research awards at UW-Madison in 2019-20



### EXAMPLES OF DEPARTMENT OF DEFENSE RESEARCH AT UW-MADISON

#### College of Engineering, School of Medicine and Public Health

*Restoring vision to injured armed forces members:* When injuries occur in the retina, sight and quality of life can be severely impacted. Using a microscopic retinal patch, UW-Madison researchers are testing a new way to treat U.S. military personnel with ocular blast injuries. The new project, titled Outer Retina Reconstruction for Combat Afflictions, will develop a transplantable patch to restore vision and could one day help restore sight to those who are injured while serving our country. [Read more online.](#)

#### School of Medicine and Public Health

*Protecting transplant organs from irreversible tissue damage:* Developed at UW-Madison, the UW Solution has become the gold standard for storing organs outside the body. Despite its success, irreversible tissue damage due to reactive oxygen species (ROS) — a type of unstable molecule that damages DNA — remains a hurdle. To combat this, UW researchers have developed an ROS scavenger called PrC-210 that may lead to a more reliable form of organ and graft preservation or even to a protective agent against heart attack and stroke.

### WHY UNIVERSITY RESEARCH MATTERS

By supporting DoD funding in research, you support programs that ensure our military stays on the leading edge of technology capabilities.

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