The Power of Federal Research Investments

UC Davis is a powerhouse for scientific breakthroughs and impact serving our state and nation. Our interdisciplinary research improves our citizens' quality of life, drives economic growth and contributes to America's global leadership and security.

Breakthroughs Enabled by Federal Research Funding

HEALTH

- Brain-computer interface that translates brain signals into speech
- Biophotonic technologies to treat tumors, sequence DNA and more
- Landmark surgery to treat spina bifida
- Highly accurate, low-cost scanners to improve cancer detection
- New model to understand Alzheimer's disease and test treatments

AGRICULTURE

- · Identifying traits in global food staples rice and wheat to improve yield
- Using Al and bioinformatics to meet food demand
- Advance indoor farming techniques to improve productivity and minimize pathogens

TECHNOLOGY

- Computers that function more like the human brain to better address unpredictable events.
- Novel optoelectronic approaches to improve the energy efficiency of AI hardware
- Study bird flight to improve the next generation of uncrewed aerial systems, or drones

Driving Economic Growth

- Supports \$2 billion in California economic activity and nearly 10,000 jobs
- 1,290 active patents
- 119 startups launched in last decade
- \$15 million in annual licensing, royalties and fees



From Labs

The Power of Federal Research Investments (cont'd)

Preparing the Future Workforce

Federal funding also plays a critical role in strategic preparations for the next generation of leaders, innovators and scientists, offering workforce and career training in:

- Software security
- Advanced cell and gene therapy manufacturing
- Neuroengineering
- Plant breeding

A Cost-Efficient Model

The longstanding federal-university partnership leverages UC Davis' expertise and state-of-the-art resources to generate new technologies and well-paying jobs, proving to be the most productive research model in the world.

Key facts on Facility and Administration (F&A) costs:

- Current F&A rates do not cover all university costs.
- F&A costs are not incidental—they are critical to conducting research
- F&A costs are essential to ensure safety in clinical and animal research
- For more on F&A myths and facts, visit: https://research.ucdavis.edu/3-things-to-know-about-indirect-costs-aka-fa/

For more on understanding F&A costs and addressing common myths, visit: https://research.ucdavis.edu/3-things-to-know-about-indirect-costs-aka-fa/

