



**PURDUE**  
**UNIVERSITY®**

**RESEARCH**



The background of the image is a photograph of a university campus. On the left, there is a large, textured stone wall. In the center, a tall, modern fountain with multiple water jets is visible. To the right, there are lush green trees with some autumn-colored leaves. In the foreground, a few people are walking on a paved path. The overall scene is bright and sunny, with a clear blue sky.

THE PERSISTENT

# *PURSUIT*

OF THE NEXT GIANT LEAP



PURDUE  
UNIVERSITY®



# *Supporting and enabling research success*

Mission of the Office of Research is to support, enable, and unburden faculty and students to achieve giant leaps in research and innovation and thereby transform the future.

- Optimizing the effectiveness of our programs, services, and investments
- Executing a continuous, comprehensive and relentless drive for greater efficiency and innovation

## **Our services**

- Enable new research and professional opportunities for faculty
- Leverage internal funds for significant & sustained external funding
- Communicate the impact of our research
- Deliver state-of-the-art research administration services
- Reward excellence in research and researchers with major achievements
- Foster entrepreneurship

# *Purdue Research supports university's strategic initiatives*



# *Purdue Research Portfolio*

Creating innovative solutions that secure the nation and the world:

- Improving global health & life sciences
- Strengthening national defense
- Providing a safe and dependable food supply
- Ensuring economic prosperity
- Protecting the environment
- Modernizing housing and transportation infrastructure



World-Class Faculty

State-of-the-Art  
Facilities

Ground-breaking  
Partnerships



# *State-of-the-Art Facilities*

Bindley Bioscience Center



Birck Nanotechnology Center



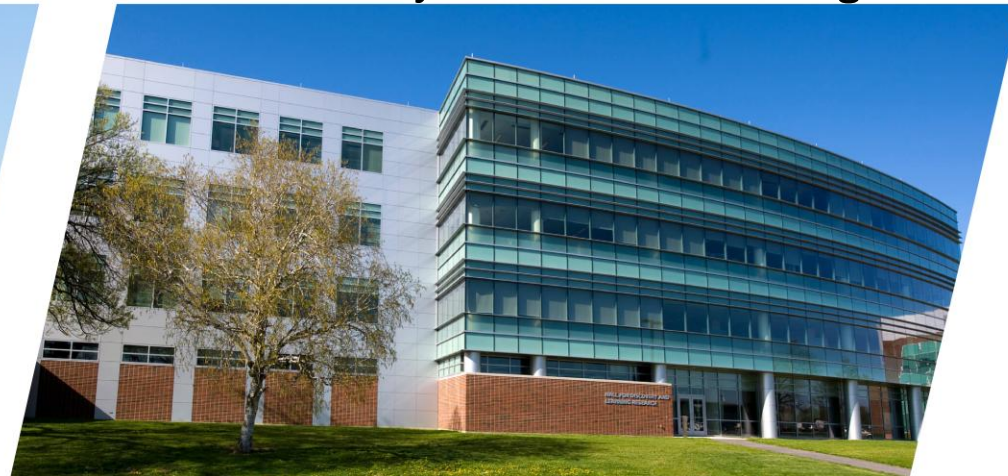
Drug Discovery



Gerald D. and Edna E. Mann Hall



Hall for Discovery and Research Learning



# *Purdue Research: partner of choice for many companies*

Total Number of Active Master Agreement = 60

**FY 2012-2024**



**FY 2025**



**10 new or renewed**



# *Purdue Research*



Providing safe and secure livelihoods for all



Advancing Life  
and Health  
Sciences



Providing  
National Security  
and Defense



Saving Energy and  
Protecting the  
Environment



Modernizing our  
Infrastructure



Ensuring Economic  
Prosperity through  
Data Science and AI

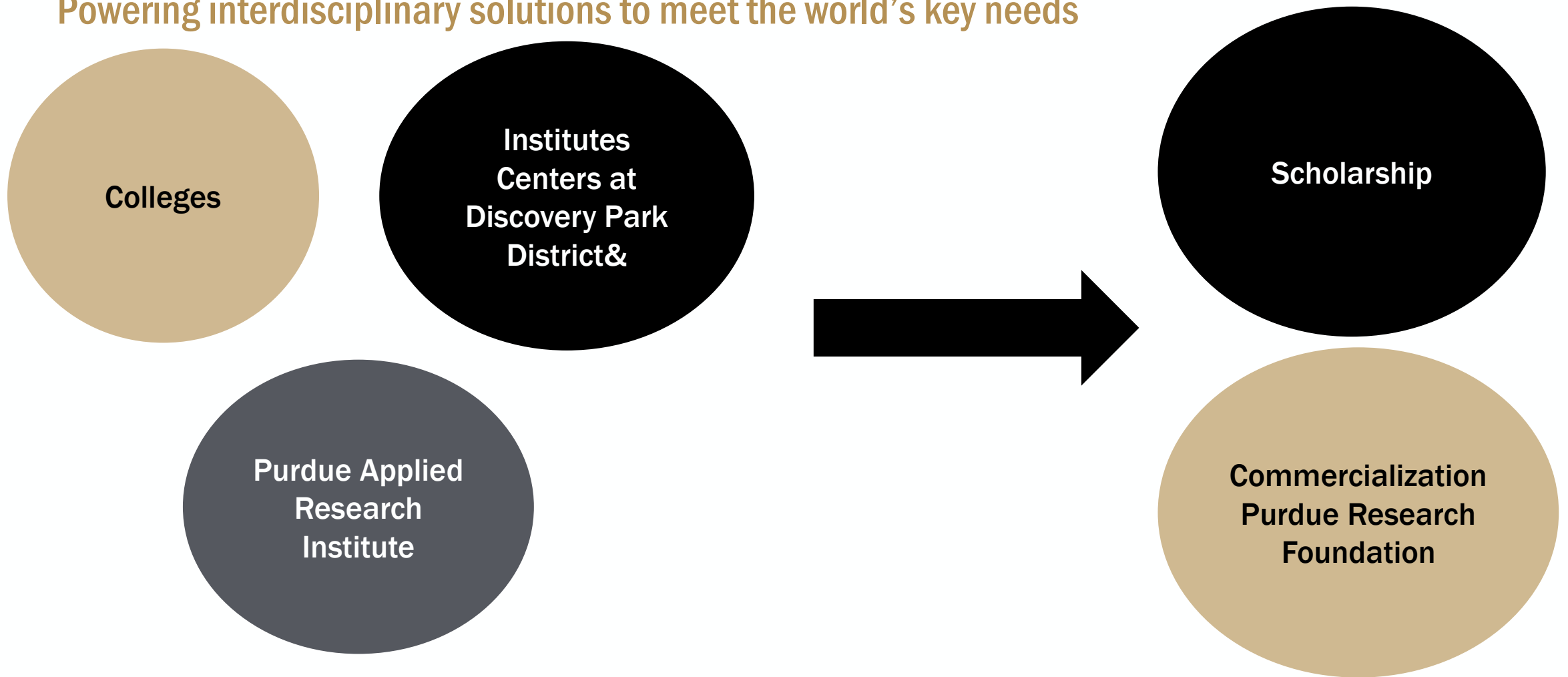


Feeding the  
World



# *Purdue's Unique Innovation Ecosystem*

Powering interdisciplinary solutions to meet the world's key needs





# PURDUE Students, Staff, Faculty

## ↓ Discovery Park District (DPD) Institutes and Centers ↓

DISCOVERY PARK DISTRICT →

### Institutes and Centers

- 1 Center for Education and Research in Information Assurance and Security
- 2 Birck Nanotechnology
- 3 Policy Research Institute
- 4 Network for Computational NanoTech
- 5 Institute for a Sustainable Future
- 6 Center for Global Food Security
- 7 Quantum Science and Engineering Institute
- 8 Center on AI for Digital, Autonomous and Augmented Aviation
- 9 Electron Microscopy Center

### Health/Life Sciences Cluster

- 1 Bindley Bioscience Center
- 2 Institute for Drug Discovery
- 3 Institute for Cancer Research
- 4 Institute of Inflammation, Immunology and Infectious Disease
- 5 Institute for Integrative Neuroscience
- 6 William D. and Sherry L. Young Institute for Advanced Pharmaceutical Manufacturing
- 7 Lilly Purdue Research Center

### Affiliated Entities

- 1 Joint Transportation Research Program
- 2 Center for Innovative and Strategic Transformation of Alkane Resources
- 3 Emergent Mechanisms in Biology of Robustness Integration and Organization Institute
- 4 Women's Global Health Institute
- 5 Scalable Asymmetric Lifecycle Engagement
- 6 Digital Enterprise Center
- 7 Center for Secure Microelectronics Ecosystem
- 8 Rosen Center for Advanced Computing
- 9 The Data Mine

1 2 3 4 5

6 7 8 9 1

2 3 4 5 6

7 1 2 3 4

5 6 7 8 9

“Enabling our people to achieve breakthroughs and drive innovations in support of solving the world's most critical problems”

- Marrying virtual with physical, digital twins, and AI as enablers
- Vertically-integrated design for system of system capability
- Co-locating academia, industry, and national labs
- World-Class R&D Facilities

Translating  
Innovation  
with DPD Industry  
Partners

OVER  
1000

Engaged  
Faculty and  
Students

\$205M

Collaborative Research  
Expenditures  
in FY 2024

← PURDUE UNIVERSITY



# *Purdue Applied Research Institute (PARI) opens new partnership possibilities*

**An agile platform to scale applied research**

PARI is Purdue's nonprofit applied research arm that launched in July 2021

- Hypersonics Lab
- Microelectronics Lab
- Energetics Lab
- Global Development and Innovation Lab
- Infrastructure Lab

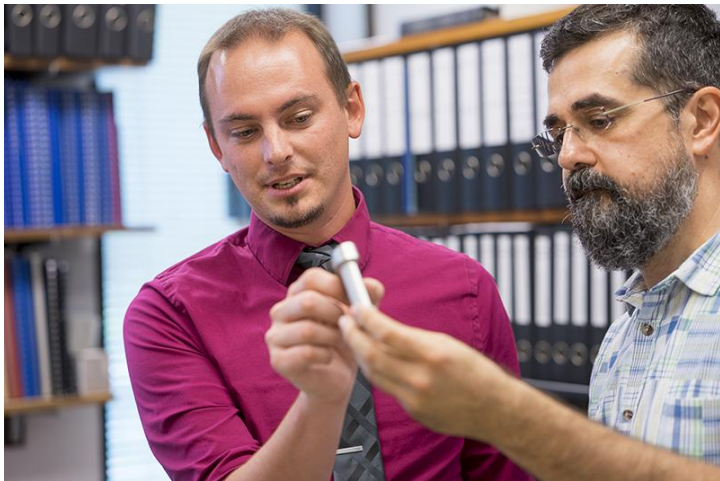


*HYPULSE shock tunnel at the Purdue Hypersonics and Applied Research Facility*

# *Purdue Research Foundation*

Forge your Future

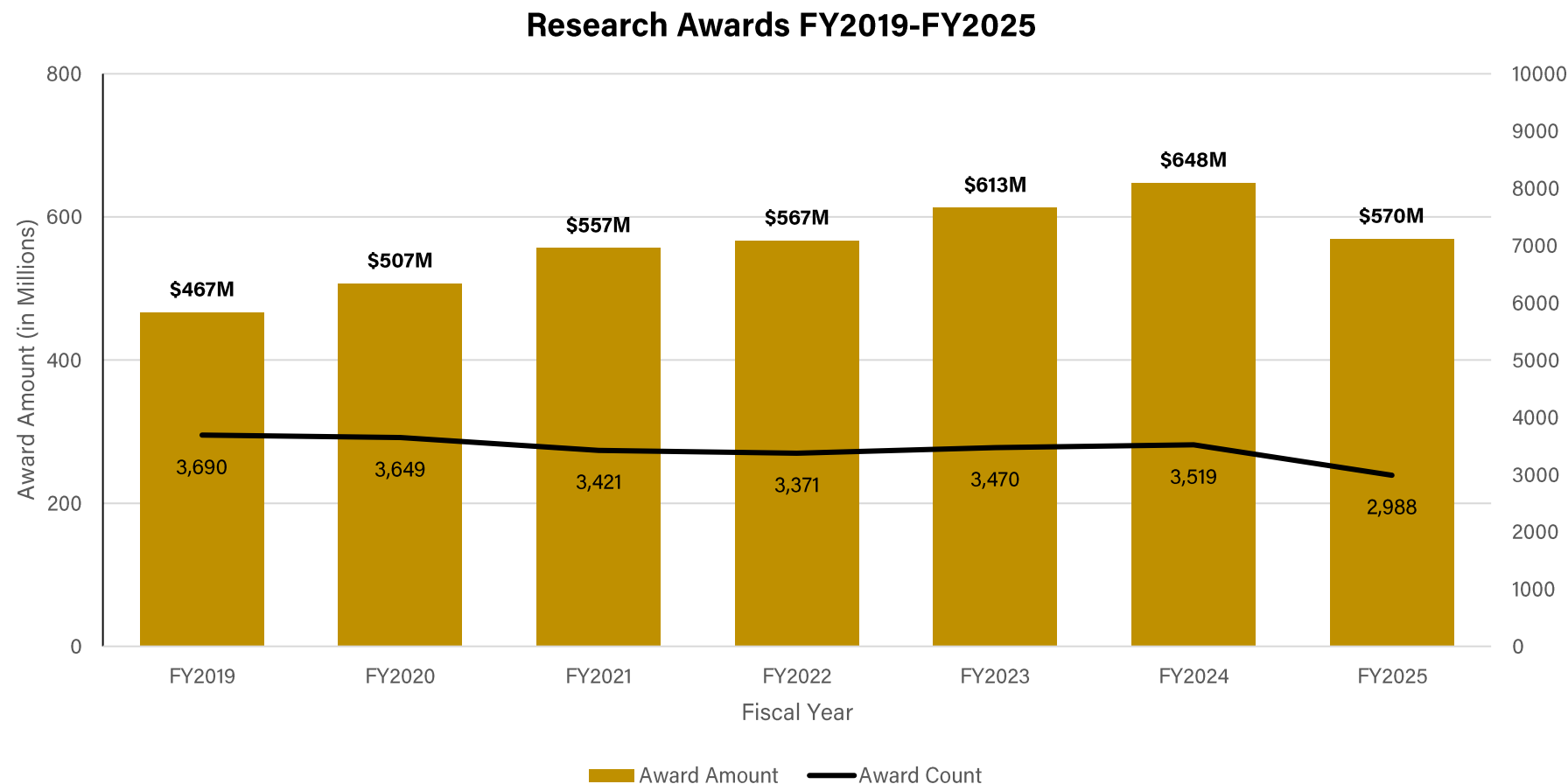
- Technology Transfer and Commercialization
- Partnership Resources
- Economic Development
- Innovator and Entrepreneurs



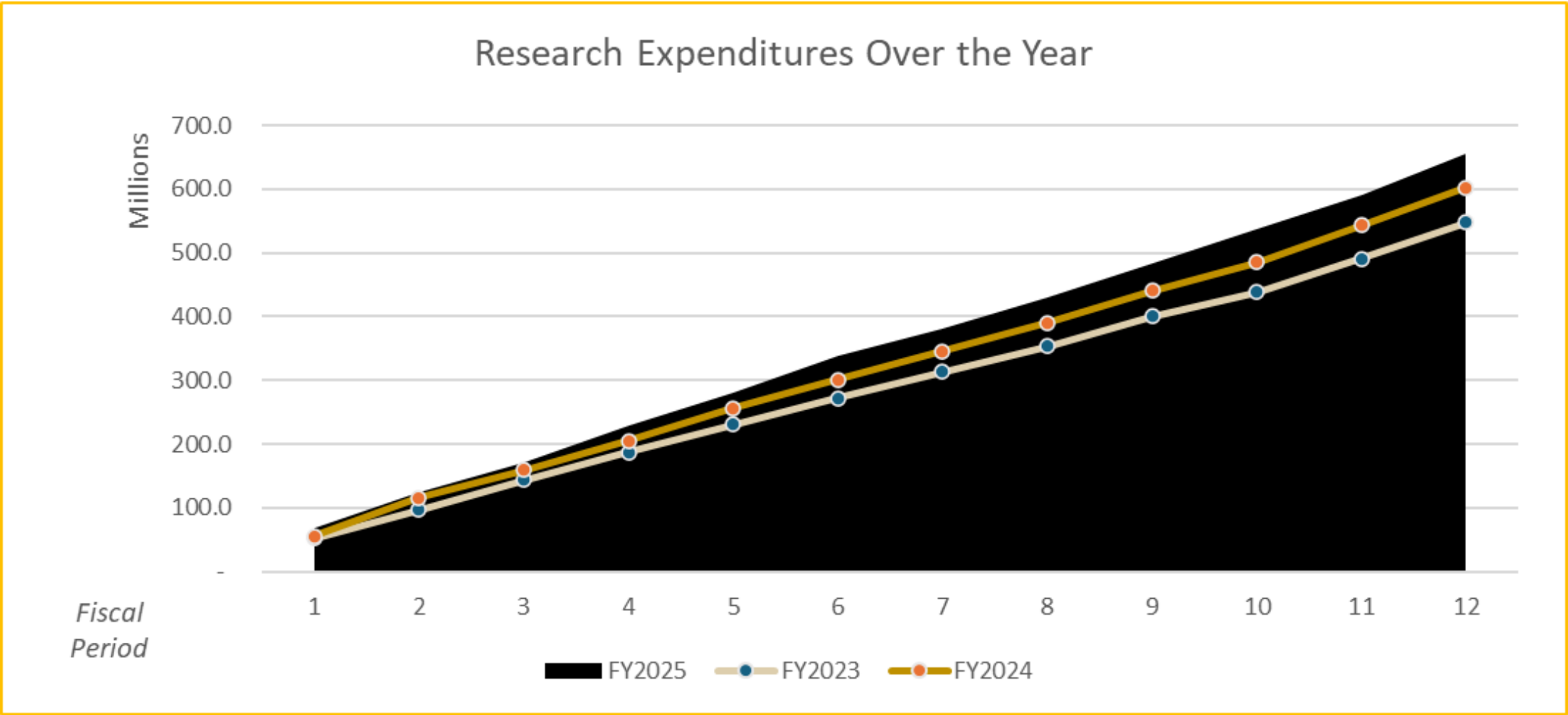
Purdue innovation could provide more effective way to deliver coolant to turbine blades, make engines more efficient - Purdue University News



# Research Awards - FY 2019 to FY 2025



# Research Expenditures –FY 2025





# *Research Excellence: Initiatives to Support Faculty*

## **Funding**

- Faculty Enhanced Research Appointment Program
- Federal Appropriations Process
- Funding support for Purdue University Libraries Open Access Publishing Fund
- Purdue Research Bridge Program
- SPARK: New round of support for teams pursuing large, competitive national center grants

## **Support**

- Faculty Recognition Office
- Purdue Faculty Concierge
- Enhanced IRB/IACUC support
- Trial credit card program for externally funded research project purchases
- Purdue Excellence in Research Administration (PERA)
- Increased Sponsored Program Services (SPS) staffing by 25%
- Major Capital Projects - \$1.3 billion

## **Major Capital Projects**

- Buildings, equipment



# *Purdue University Office of Research*

Sponsored  
Program  
Services



Partner  
Relations

Facilities

Security &  
Intelligence



Animal  
Resources

Export  
Controls

Human  
Resources

Communicat  
ions



Operation  
s

Regulatory  
Affairs

Scientific  
Integrity

# *Some key individuals who can help you*



**Dan DeLaurentis**  
**EVP, Research**  
**ddelaure@purdue.edu**



**Ken Sandel**  
**Sponsored Program Services**  
**sandel@purdue.edu**



**Preeti Sivasankar**  
**Strategic Interdisciplinary  
Research**  
**preeti@purdue.edu**



**Jamie Mohler**  
**Research Compliance, Integrity &  
Security**  
**jfmohler@purdu.edu**



**Joey Wallace**  
**Purdue in Indianapolis**  
**jwalla78@purdue.edu**



# Back Up Slides

# *Institutes and Centers at Discovery Park District*

Advancing large-scale research leading to interdisciplinary breakthroughs to solve the world's most critical problems

- bringing together students, staff, and faculty **across disciplines**
- achieving “**system of systems**” capabilities by leveraging vertically integrated design innovation from nano/micro/cellular scale to device/platform/therapy scale to harness complexity
- combining ‘**virtual with physical**’ through AI/ML to driving rapid innovation and translation

*“Our structure expands research, partnership, and funding opportunities and greater involvement with industry, federal labs and venture funds.”*

– Dan DeLaurentis  
Executive Vice President for  
Research

# ***PERA (Purdue Excellence in Research Administration)***

Next-generation system automates many processes required to apply for research grants, manage funding, and apply to regulatory committees such as IRB and IACUC

## How PERA saves time for researchers:

- Unified platform to manage & monitoring research projects
- Enhanced transparency
- Automated research administration business processes
- Dashboard with centralized and consolidated information
- Automated workflow, routing, approvals & communications

