

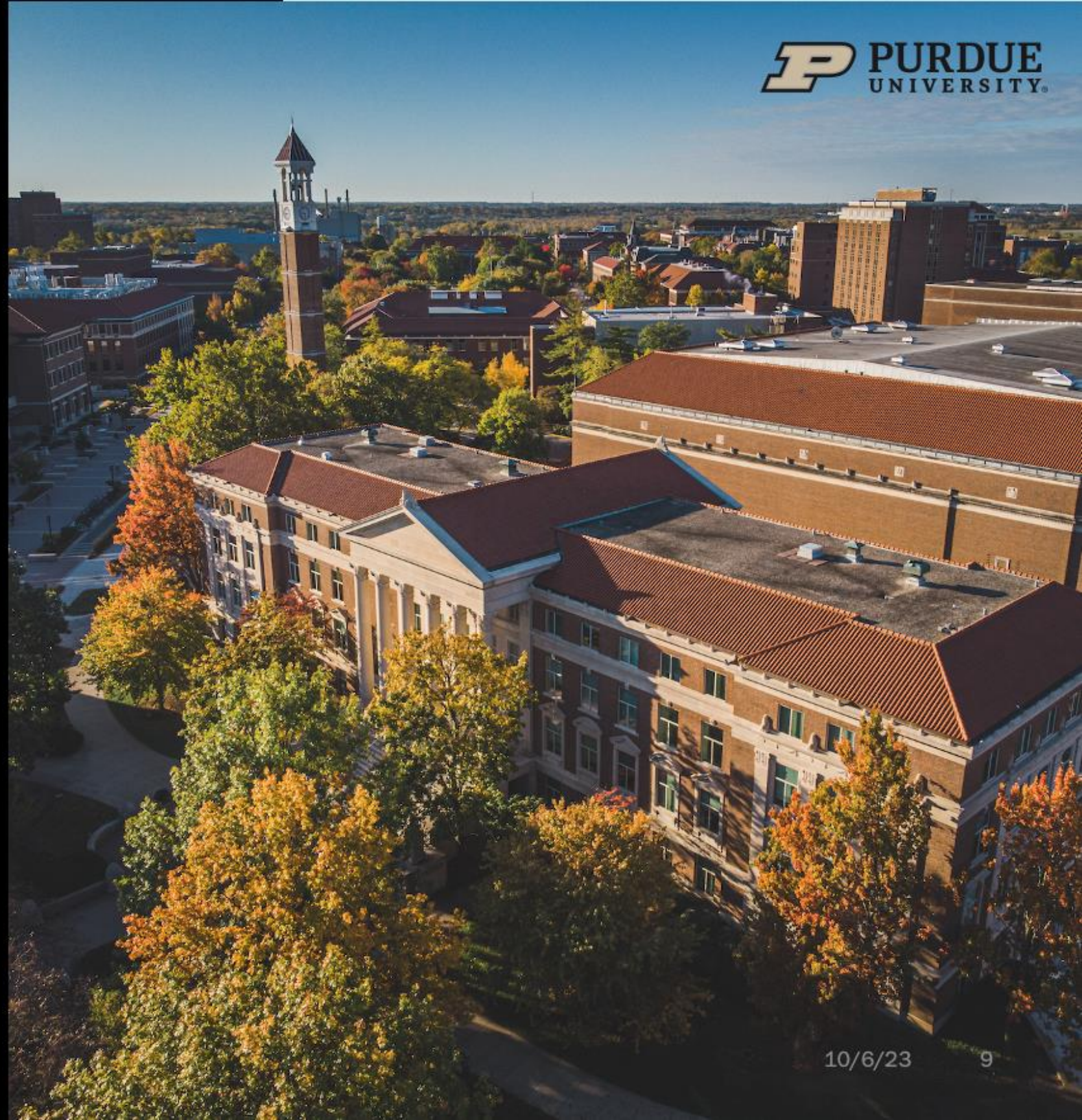
Board of Trustees Meeting

October 6, 2023



Purdue's 5 Next Moves

- 1) Transformative Education 2.0
- 2) Equity Task Force
- 3) Plant Sciences 2.0
- 4) Purdue Applied Research Institute
- 5) National Security and Technology Initiative



Enhancing Degree-Planning Experience

EduNav



– Accounting (BS)

Help EDUNAV

Back Save Clear Status: Valid Validate Plan Download Requirements Progress:

Completed courses

Summer 2023 6 CR

MA 15555	3 CR
Quantitative Reasoning	UCC/Quantitative Reasoning ... TR
PSY 12000	3 CR
Elementary Psychology	Multiple requirements TR

Fall 2023 [Show my schedule](#)

Planned: 16 CR Registered: 16 CR Term limit: 16 CR

[+ Add a course...](#)

MGMT 19700 (24990, Kevin Kohark)	1 CR	Registered
Careers In Acct & Finance		
SCLA 10100 (27798, Brandon Rdzak)	3 CR	Registered
Crit Think & Com I		
Multiple requirements		
EAPS 10000 (17524, Ashika Capital...)	3 CR	Registered
Planet Earth		
UCC/Science, Tech & Society (1 Class)		
EAPS 10500 (22696, Andrew Freed)	3 CR	Registered
The Planets		
UCC/Science		
MA 16010 (16132, Nicholas Gismen...)	3 CR	Registered
Applied Calculus I		
Calculus		
MGMT 25400 (23105, Milana Savia)	3 CR	Registered
Legal Found Business		
Legal Foundations of Business I		

What is next?

Spring 2024 15/15 CR

[+ Add a course...](#)

ECON 25100	3 CR
Microeconomics	Microeconomics
MGMT 20000	3 CR
Intro Accounting	Introductory Accounting
COM 11400	3 CR
Fundament Of Speech	Multiple requirements
PHIL 11100	3 CR
Introduction To Ethics	UCC/Humanities (1 Class)
STAT 30301	3 CR
Prob & Stat For Business	Multiple requirements

Fall 2024 15/15 CR

[+ Add a course...](#)

ECON 25200	3 CR
Microeconomics	Microeconomics
MGMT 29500	1 CR
Career Readiness & Explor	Career Readiness & Exploration
MGMT 30500	3 CR
Business Statistics	Multiple requirements
MGMT 35000	3 CR
Intermediate Acctg I	Multiple requirements
MGMT 37300	3 CR
Acct Inf Sys & Data Anlyt	Multiple requirements
ELECTIVES	2 CR
Choose course(s) to satisfy the minimum 120 credits required...	

Spring 2025 15/15 CR

[+ Add a course...](#)

CS 23500	3 CR
Intro Organizational Comp	Introduction to Organizational ...
MGMT 20100	3 CR
Mgmt Accounting I	Management Accounting
MGMT 35100	3 CR
Intermediate Acctg II	Multiple requirements
MGMT 38200	3 CR
Mgmt & Informatn System	Multiple requirements
OBHR 33000	3 CR
Intro To Org Behavior	Multiple requirements

Fall 2025 15/15 CR

[+ Add a course...](#)

MGMT 31000	3 CR
Financial Mgmt	Multiple requirements
MGMT 32400	3 CR
Marketing Mgmt	Multiple requirements
MGMT 36100	3 CR
Operations Management	Multiple requirements
ANTH 20400	3 CR
Human Origins	UCC/Science
MGMT 47200	3 CR
Adv Spreadsheet Mod & Sim	32 Upper Level Credits Require...

Spring 2026 15/15 CR

[+ Add a course...](#)

MGMT 50500	3 CR
Mgmt Accounting II	Multiple requirements
MGMT 50600	3 CR
Auditing	Multiple requirements
ENGL 42000	3 CR
Business Writing	Multiple requirements
MGMT 41300	3 CR
Corporate Finance	Multiple requirements
MGMT 41500	3 CR
Intl Financial Mgmt	Multiple requirements

Goals - Declared

“I like that I can see the overall balance of my classes, by semester instead of a big, long list of everything I have left [to graduate]. It is less stressful to me.”

Fall 2023 Pilot // First Week

- 410 students and 47 advisors have logged in 1,200 times
- Students have created a total of 577 academic plans
- Advisors have changed 191 student plans
- Advisors have made 3,600+ total changes to plans



Transforming the Academic Process

Institutional Workflow Enhancements

Fewer Forms

- Reduced 29 distinct course and curricula proposals down to 10 (**65% reduction**)

Faster, More Efficient Reviews

- Reduced all curricular workflows between 7 and 13 steps (**50% reduction**)
- New curricular workflows **eliminated 78 total steps.**
- Consistent, predictable approval timelines for **undergraduate** and **graduate** proposals

Faculty Time Saved

- **1500+ hours saved** in faculty reviewing proposals each academic year
- **1-2 hours saved** in faculty initiating and getting each academic proposal approved

Institutional Process Decisions

Academic Catalog Deadline (April 1)

- Submissions after deadline will be postponed until next academic year.

Hide Rules | Plans of Study

- For transparency and equity to all students, hiding courses will no longer be standard practice.

Variable Title Courses | Plans of Study

- For ease of degree planning and transparency, any specific variable title course number will fulfill the same degree requirements

MOVES

CURRENT
STATEPURDUE
EQUITY
TASK FORCE

BLACK STUDENT CENSUS	Fall '22	Fall '23	# Change	% Change
Undergraduates	946	1,021	75	8%
% of total undergraduates	2.49% ¹	2.61%	—	—
Graduates	361	364	3	1%
% of total graduates	3%	3%	—	—
Professional ²	43	36	-7	-16%
% of total professional	4.68%	3.98%	—	—
All Student Levels	1,350	1,421	71	5.25%
% of total enrollment	2.65%	2.72%	—	—

BLACK FACULTY & STAFF CENSUS	Fall '21	Fall '22 ³	# Change	% Change
T/TT Faculty	60	66	6	10%
% of total T/TT faculty	3.13%	3.18%	—	—
Staff ⁴	227	268	41	18.1%
% of total staff	2.94%	3.32%	—	—
ALL FACULTY & STAFF	349	390	41	11.7%
% of total faculty & staff	3.04%	3.25%	—	—

Notes:¹ Lowest % of total undergraduates in 30+ years² Professional students = DVM and PharmD only³ Fall 2023 Staff and Faculty Census to be based on 10/31/2023 snapshot⁴ Staff = Executive, Management, Professional, Extension, Service, Support and Temporary Categories

PURDUE'S NEXT

MOVES

GO FORWARD
PLANS

PURDUE
EQUITY
TASK FORCE



MARKETING

Direct marketing campaign (MarCom)

- ✓ College fairs + high school administrator relationships
- ✓ Campus visits

Precollege pathways

- ✓ K-12 pathway programs
- ✓ Purdue Polytechnic High Schools
- ✓ Strengthen K-12 partnerships

Transfers

- ✓ Purdue regional campuses, Ivy Tech, Vincennes University
- ✓ Leveraging Purdue University in Indianapolis

Partnerships

- ✓ HBCUs
- ✓ Funding partnerships (e.g., NSF, DOD)

RECRUITING

Critical need to increase applications from 2,600 to 5,200 over 2-3 years

Identify target metropolitan areas

- ✓ Cultivate authentic relationships with high schools + communities
- ✓ Cover Indiana high schools with diverse populations
- ✓ Engage alumni + leverage PBAO relationships

Create + increase on-campus activities

- ✓ Expose to college life
- ✓ Create hands-on activities (i.e., robotics, math, science)

PURDUE'S NEXT

MOVES

COLLEGE OF
AGRICULTURE



Plant Sciences and Digital Forestry



Measure every tree and crop on the planet

Plant Sciences

- Playing a key supporting role in College of Agriculture being **#3 in North America** and **#5 in the world**
- Groundbreaking for university's **new phenotyping greenhouse**, which will:
 - **support research and discoveries** related to plant health, nutrition, drought and disease stress, and root health
 - **enable integration** into existing controlled environment phenotyping facility

PURDUE'S NEXT

MOVES

COLLEGE OF
AGRICULTURE



Plant Sciences and Digital Forestry



Measure every tree and crop on the planet

INSTITUTE FOR **Digital Forestry**

- Mapped locations of **273,485,688 trees** in **330+ cities** nationwide
- Mapped locations of **3,341,088 trees** in over **137,970 acres** in Indianapolis
- Engaged with **15 departments or schools** in *Agriculture, Engineering, Libraries, Science and Polytechnic*
- **2023 \$10M PERSEUS grant** from USDA, Purdue lead
- **2023 \$9M EFFICACI grant** from USDA, Purdue subcontract

Building PARI's Organizational Structure

Executive Leadership Team in Place

- CEO, COO, Chief of Staff, Chief External Relations Officer, Senior Directors of Finance, Senior Director of Comms, Director of Contracts
- Division and Executive Leadership met to refine PARI business model, operating assumptions and future organizational structure; 7-9 September at Purdue, 21-22 September in D.C.

Research Team

- 50+ PARI/Purdue employees charging >50% on PARI contracts (incl. 23 students)
- 2 new hires in HAMTC, 6 new GDI staff (Oct. 1) since last BOT meeting
- Moving toward a model of dedicated research staff

Facilities

- HARF occupied; sponsored research already underway in HAMTC
- Establishing physical presence at WestGate; negotiating 10-year lease

Advisory Board of Distinguished Leaders

- Network of champions to raise PARI stature, advise on technical topics and direction, and drive new opportunities
- Chaired by Hon. Lisa Hershman, former chief management officer; includes Gen. Hawk Carlisle, USAF (Ret.); engaging future members

PARI Divisions

National Security and Technology

- The Hypersonics Advanced Manufacturing Technology Center (HAMTC) enables the design, manufacturing, joining and testing of hypersonic components and subsystems in one location and the transition of these technologies to the defense industrial base.
- 9 PARI and 23 seconded employees
- \$19.5M OSD contract

Global Development and Innovation (GDI)

- PARI-GDI partners with faculty, students and staff to collaborate with primary stakeholders in lower- and middle-income countries to co-create solutions to achieve sustainable, measurable and equitable impact.
- 10 PARI and 5 seconded employees
- 5 awards totaling \$4.35M

Infrastructure Research and Innovative Solutions (IRIS)

- Drives innovation, efficacy and efficiency in construction of the next generation of facilities infrastructure including hardened structures, nuclear power structures, high-rise building construction and renewable energy
- 6 PARI and 17 seconded employees
- 3 awards totaling \$9.5M

Technology Acceleration – DIAL Ventures

- Drives digital innovation to benefit the agri-food industry by launching leading startups through a venture studio model
- 8 PARI and 4 seconded employees
- \$12M in investments committed from 4 investors
- \$2.25M gifts to support Fellows program

PURDUE'S NEXT
MOVES

PURDUE
APPLIED
RESEARCH
INSTITUTE



Building the Pipeline

26 June NSWC Crane Visit

- CRADA signed 27 June
- DD254 initiated facility clearance process
- \$2.65M initial funding

18 July NSWC Dahlgren Visit

- Draft IDIQ review 18 August
- Fall Purdue visit planned

3 August imec Visit

- PARI likely with role on \$10.5M agreement
- Teaming to pursue CHIPS and other ME funding

17 August meeting with SAAB CTO and Executive Steering Group

29-30 August Visit to Sandia National Lab

- Plan to turn partnership into sponsored work
- Mark Lewis to join board on Digitally Enhanced Manufacturing

5 September signing ceremony at NSWC Crane

- Established permanent Purdue presence at WestGate

DARPA

- 25 August meeting on Hypersonics
- 15 September meeting on Energetics

18-19 September Lockheed Martin visit

- Exploring offsets opportunity

19-21 September, Hypersonic Weapons Summit Chair

Exploring research collaboration opportunities with Peraton

Exploring partnership and funding opportunities in Energetics

Supporting the Indiana Research Consortium

Signed Industry Partnership Agreements:

- Stratolaunch
- Boeing
- GE

PURDUE'S NEXT
MOVES

Update:
National
Security and
Technology
Portfolio



Breaking Records, Expanding Partnerships in National Security Research

FY23: DOD is largest source of sponsored research awards — FIRST TIME EVER at PURDUE!

Notable new *wins*:

- Purdue Computes: DOD ME Commons award — **Silicon Crossroads Microelectronics Commons (SCMC) Hub**
 - Applied Research Institute (ARI): \$32.9M for Year 1

Partnerships:

- Office of Naval Research (ONR)-funded project partnership with SAAB NA Inc.
 - Over \$10M of direct-sponsored and federal-sponsored with SAAB over past 3 years
- AFRL Regional Research Hub
 - Greater than \$25M commitment to the industry/academic partnerships

Undergraduate Opportunities:

- Defense Civilian Training Corps
 - Student scholarships to build career path with Department of Defense — \$4.2M



Thank You

