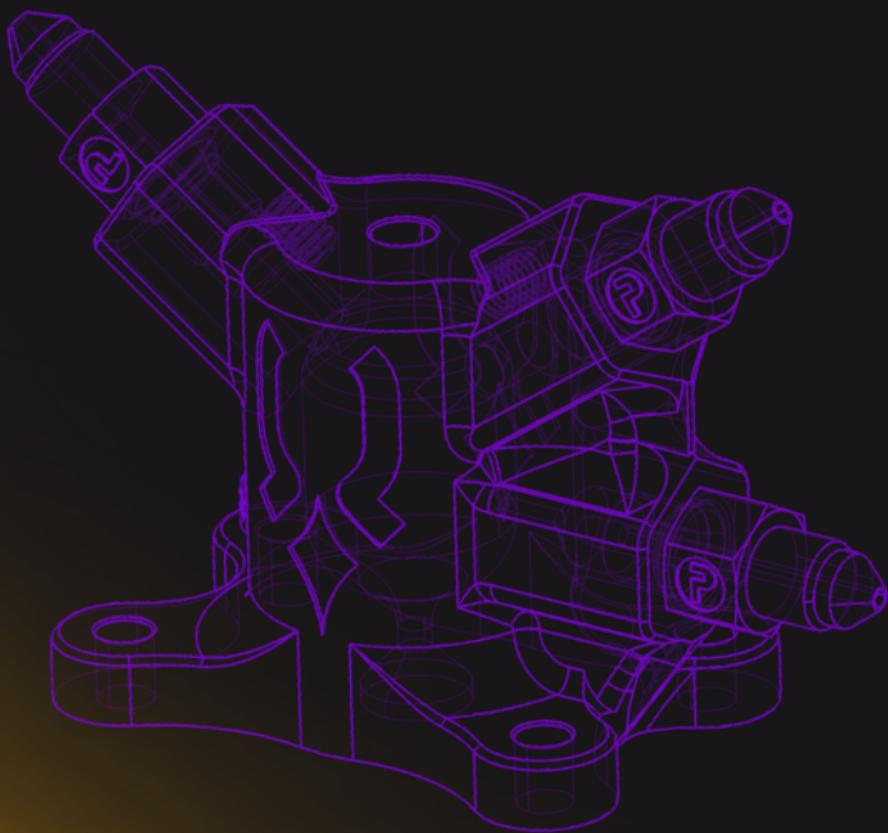




Purdue Undergraduate Rocket Propulsion Lab

Corporate Sponsor Newsletter

2025 - 2026



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2025 - 2026

ABOUT US

Home to over 350 members, PURPL is Purdue's only organization focused on the development of propulsion systems and test infrastructure.

Our vision is to provide undergraduate engineers ownership of propulsion projects, provide a more structured and inclusive framework, and ensure fair work distribution regardless of experience level.

We offer undergraduate engineers the chance to work on projects traditionally reserved for graduate students, empowering them to innovate while preparing for careers in aerospace.



Leadership opportunities and professional development workshops are couple ways we prepare our members to prepare for careers beyond engineering.



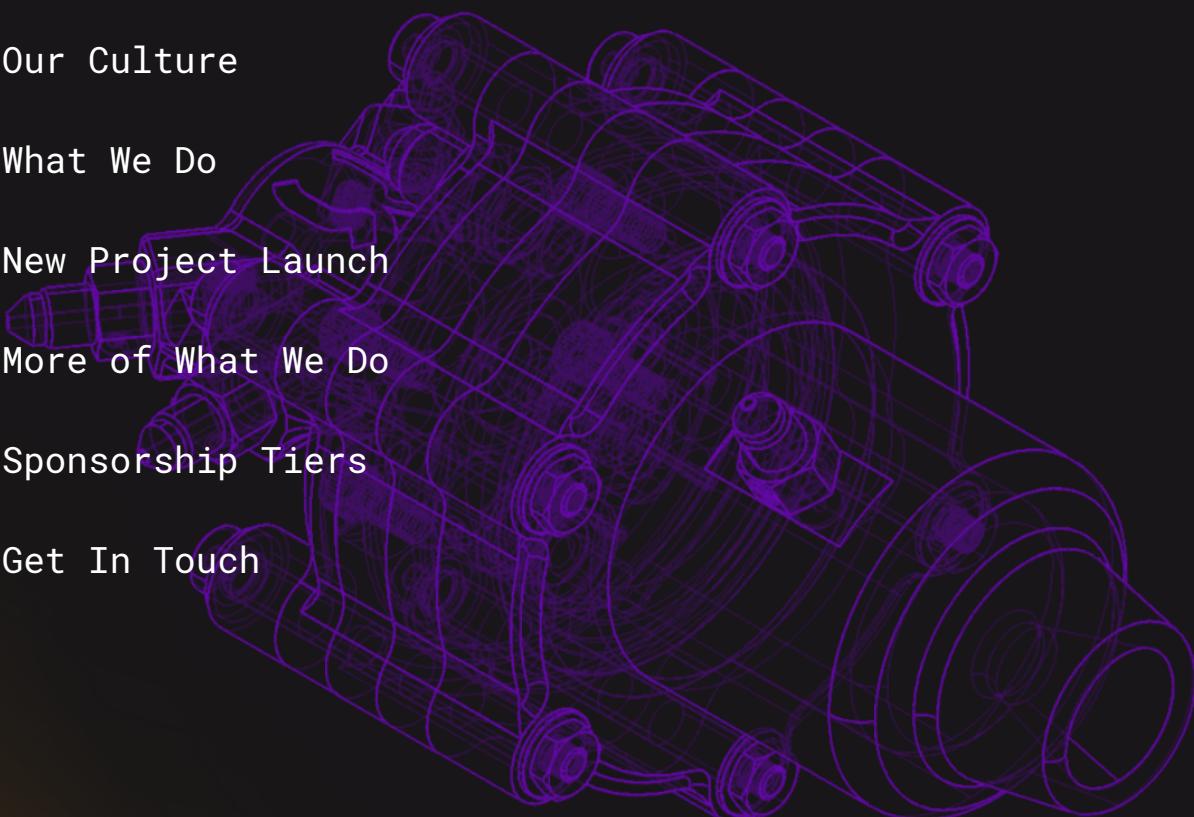
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2025 - 2026

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WELCOME FROM THE EXECUTIVES



PARTH KARANDE

— President

I am a Junior in Mechanical Engineering. I guide the club's overall direction, oversee its functioning and logistics, and coordinate university and faculty relations, including collaboration with other organizations across Purdue.



TOBEY UHM

— Treasurer

I am a Junior in Finance. I serve PURPL to help strategize diplomatic relations for our organization, oversee treasury, and reinforce our leadership in propulsion on Purdue's campus.



MAX NEITZKE

— Vice President of Propulsion

I am a Junior in Materials Engineering. I am committed to ensuring our projects logistical, financial, and technical needs are being met as well as representing PURPL's project teams in external affairs.



JONAH NOBEL

— Vice President of Test Infrastructure

I am a Junior in Aeronautical and Astronautical Engineering. I run the test engineering branch of the club, including design, buildup, and operations of PURPL's test stands.

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2025 - 2026

LETTER TO OUR CORPORATE SPONSOR

Dear Company Representative,

Thank you for your interest in sponsoring the Purdue Undergraduate Rocket Propulsion Lab (PURPL). Our organization is dedicated to providing students with hands-on propulsion experience through projects like gas-generator turbopumps, turbojets, and deep-space electric propulsion systems, highlighting our commitment to advancing student-led propulsion innovation.

Your sponsorship would directly support these initiatives, helping us achieve key milestones while offering your company benefits such as participation in design reviews, hosting events with our members, branding opportunities on team materials, and access to a highly motivated pool of future engineering professionals. For general inquiries about coordinating events, please contact our Industrial Relations Chair, Olivia Avalos, at oavalosv@purdue.edu. For funding or sponsorship inquiries, please contact our Funding Acquisition Chair, Winston Zhu, at zhu1425@purdue.edu.

Best Regards,
The PURPL Community





OUR CULTURE

Training and Mentorship

PURPL places a strong emphasis on training, teaching, and mentoring its members. Senior members and alumni serve as technical mentors, offering their time and expertise to address both technical and professional inquiries.

Team Professionalism

The team implements industry-standard practices such as leveraging task management and knowledge database software to improve communication, establishing a standardized part naming convention and labeling system for manufactured components, and conducting regular design reviews to gather feedback and refine designs and processes.

Open Recruitment

PURPL is open to all Purdue students, with no application process, prerequisites, or criteria for joining. This inclusive approach aligns with PURPL's mission, welcoming anyone passionate about aerospace to learn, grow, and prepare for a future in the industry.

Hear What Annelie Gustafsson Has to Say

"Joining PURPL has been one of the highlights of my first year – the community is welcoming, and there's a genuine commitment to collaboration and learning. I've gained a lot of practical skills and been able to work on some cool projects, getting early technical experience in engineering."



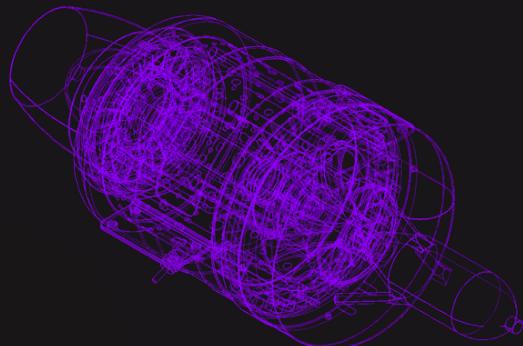
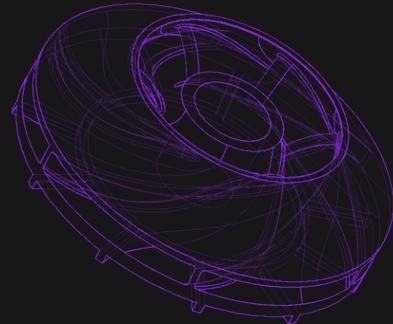


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WHAT WE DO

GAS-GENERATOR CYCLE TURBOPUMP

The 5,000 pound-force kerosene and liquid oxygen rocket engine will make PURPL the first undergraduate team to hot fire a turbopump in the world.

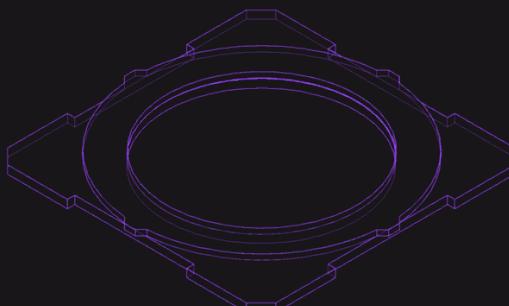


TURBOJET

Just like a commercial jet's engines, but scaled down to 50 pound-force. PURPL's turbojet team is developing an air breathing engine sized to power medium to small UAV's.

HALL EFFECT THRUSTER

Low thrust but extremely efficient, hall effect thrusters are ubiquitous in the satellite industry. PURPL's electric propulsion team is working hard at Purdue's Electric Propulsion Laboratory to design, build, and test their own.

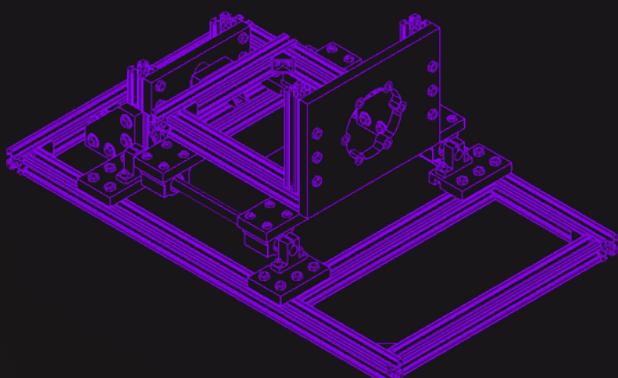
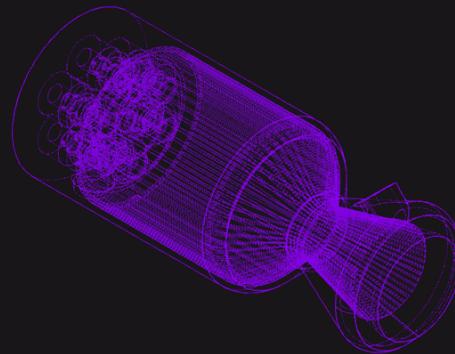




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 TESTBED ENGINE

Designed to allow PURPL to experiment and learn complex rocket propulsion concepts, the testbed team will build this engine and compete in the RRS regeneratively cooled engine competition in Mojave, where PURPL stands a chance to win \$50,000.



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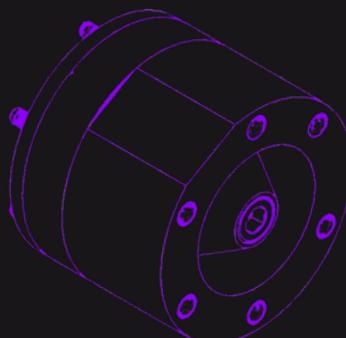
 MOBILE 5000 LBF TEST INFRASTRUCTURE & TEENY-K

All of these different propulsion projects could not function without a proper test stand. PURPL's test infrastructure team develops and builds the thrust structures, fluid systems, and data acquisition systems that make our projects breathe fire.

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 ROTATING DETONATION ENGINE

This project will be a fully student-built RDE project that will be combined with turbines for clean energy research. PURPL is collaborating with Purdue AAE Prof. Guillermo Paniagua-Perez at Zucrow Laboratories to make this test rig come to life at record speeds, with the plan to hotfire in one semester!



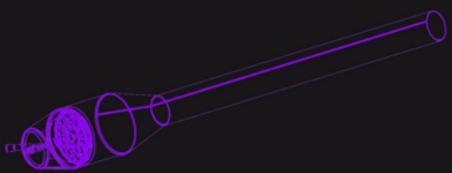


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NEW PROJECT LAUNCH

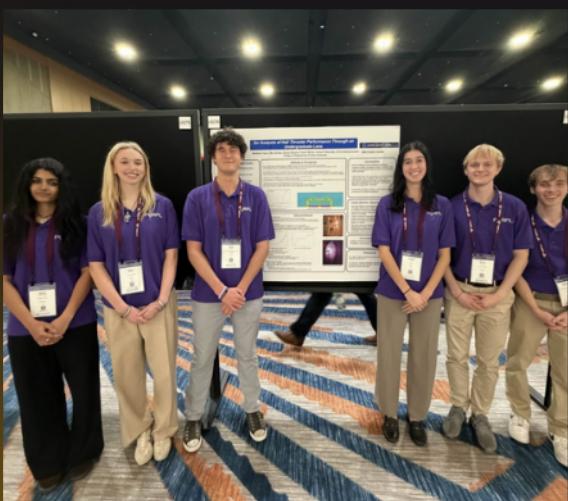
✚ PULSEJET

Fast to design, easy to build, and built to hotfire – pulsejets capture PURPL's rapid iteration mindset. This team is developing both valved and valveless engines with the goal of completing static testing within its first semester. Pulsejet is also PURPL's first external collaboration, partnering with Purdue NDS to power a jet-propelled RC plane.



CONFERENCE HIGHLIGHTS

This year, PURPL teams also delivered strong results at major conferences. At **ASME IMECE 2025**, the **Electric Propulsion** team earned **3rd place overall** for its **Hall thruster** research, competing against nearly **100 undergraduate teams** worldwide. At the **2026 AIAA SciTech Conference**, the **Turbojet** and **Turbopump** project leads received **AIAA recognition** and **research publication** following presentations on their respective projects.





MORE OF WHAT WE DO

TORCH TRAINING PROGRAM

TTP is a year-long course in which members gain a basic yet comprehensive understanding of liquid propulsion through research, design, manufacturing, and hot-fire testing of their own torch igniter. Teams of 3-4 students will compete with a rubric based on their cost efficiency, ignition, reliability, and theoretical accuracy. In the end, students will leave with a holistic view of rocket engines and a readiness to join any other team with these new insights.



PROFESSIONAL & TEAM DEVELOPMENT

As a student organization focused on bringing out the fullest potential of our members, we offer professional development opportunities, including but not limited to resume review, career workshops, leadership opportunities, and networking events. Additionally, we also host fun outdoor and indoor events to uplift the student morale of the organization.



2025 - 2026

SPONSORSHIP TIERS

	Silver ≤ \$2,500	Gold ≤ \$7,500	Platinum > \$7,500
Name on PURPL Website	✓	✓	✓
Exposure on Social Media	✓	✓	✓
Logo in Workspace	✓	✓	✓
Access to Resume Book		✓	✓
Logo on Sponsored Hardware		✓	✓
PURPL Merchandise		✓	✓
Exclusive Networking Event with Team			✓
Preferred Logo Placement			✓
Personal Design Presentation			✓
3D Printed Engine Model			✓

Any material or service sponsorship will be considered equal to its monetary value and may require additional review.

Any sponsorship involving a software license for the team's use is considered a Silver-tier sponsorship.

GET IN TOUCH



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