

Welcome to ARES

From the ARES Committee



About ARES

The **Aerospace and Rocket Engineering Society (ARES)** is a group of students who have come together to design and engineer aeronautical technology.

That includes; planes, drones, helicopters, rockets, satellites and anything else you could possibly think of do with aerospace!

We love to get our members involved in hands-on projects and get ready for industry!



ARES Committee



Jisoo

President

Rocketry team
Vice Lead

Capstone Project
Hybrid Rocket
Engine



Harrison

Vice-President

Rocketry team
Operations & Logistics
Lead

Australian Youth
Aerospace Association
Treasurer

ARES Committee



Hasan

Secretary

Rocketry team
Flight Sims Engineer

Software
Developer



Baden

Treasurer

Rover team
Chassis

Spatial Engineer &
Drone Enthusiast

ARES Committee



Ann

**Engineering
Officer**

Rocketry team
Internal Structures &
CFD Engineer

Graduate
Engineer!



Cas

**Engineering
Officer**

Rocketry team
Internal Structures
Engineer

Capstone Project
Thrust Vector Control

ARES Committee



Ben

Rocketry Team
Chief Engineer
Avionics Team

Mechatronics
Engineer

ARES Workshop Host



Luna

Events Officer

Underwater
vehicle design

Info for potential
employment
opportunities

ARES Committee



Zhe

Marketing

Graduate Marketing
Specialist!

Unimelb Rover team

Information Systems
Graduate



Peter

Marketing

Rocketry team
Project Lead

Melbourne Space
Program
Acrux-2 Co-Lead

ARES Club Projects



Project Phobos

Australian Universities Rocket Competition 2022

Our club's largest on-going project, with more than 50 members involved.

Design, manufacture and launch a rocket carrying payload to **10,000ft.** Subsystems include aerodynamics, flight simulations, internal structures, avionics and payload.

ARES Club Projects



UniMelb Rover Team (U.R.T.)

Australian Rover Challenge (ARC)

In a team of 40+ members, URT is designing and building a rover to compete in a full-scale simulated lunar mission, where they will be representing the university in March 2022.

Subsystems include **robotic arm**, **electrical**, **chassis**, **software**, **science payload** and **operations**.

Follow URT on instagram @**unimelbrover**

ARES Partners



LEAP Australia

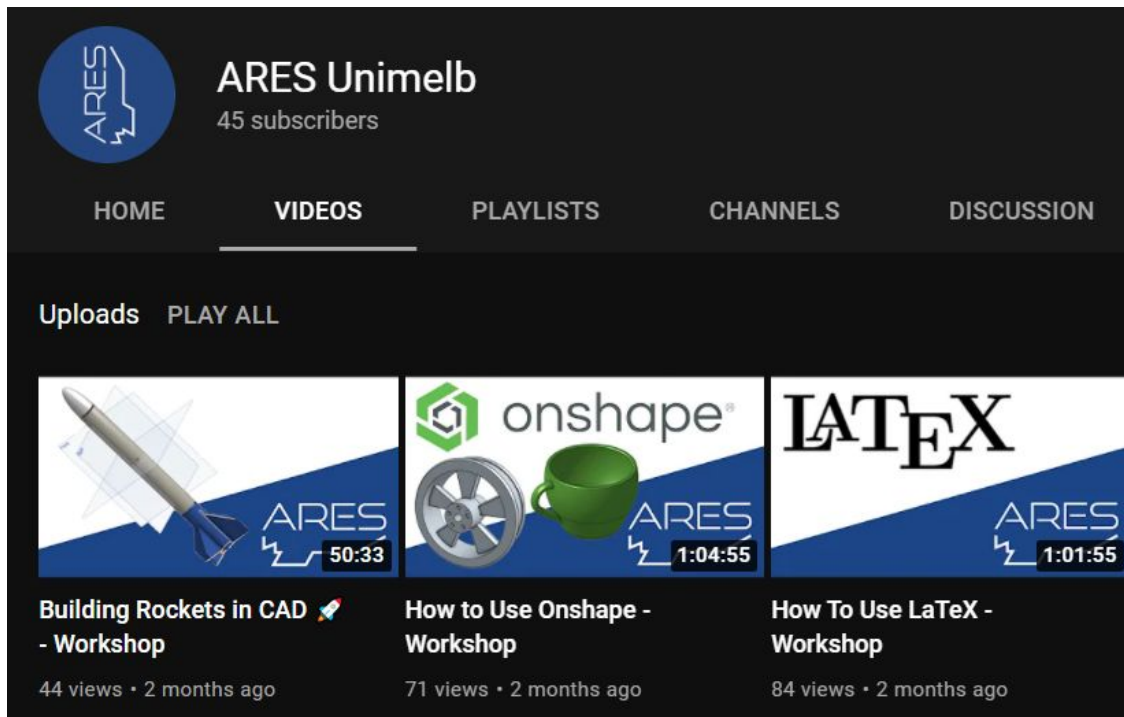
Engineering Software Consultants

LEAP Australia have partnered with the Project Phobos team act as mentors for modelling and simulation software. In particular, LEAP provide us assistance with the Ansys and Onshape software packages. **Ansys** - powerful software capable of CAD, mechanics simulations (FEA), fluid dynamics simulations (CFD) and much more. **Onshape** - cloud-based CAD design tool used by Project Phobos.

ARES Workshops - Sem 1



- Previous workshop topics included LaTeX, OpenRocket, Onshape and PCB design. Check out on our [YouTube channel](#)
- Sem 1 workshops focused on DIY rocket building project over 10 sessions. Find out about the whole journey on our [GitHub homepage](#)
- We will be running 5 or 6 workshops for this semester
- Join [our slack channel](#) to receive regular updates and information on our workshops



ARES Workshops - Sem 2

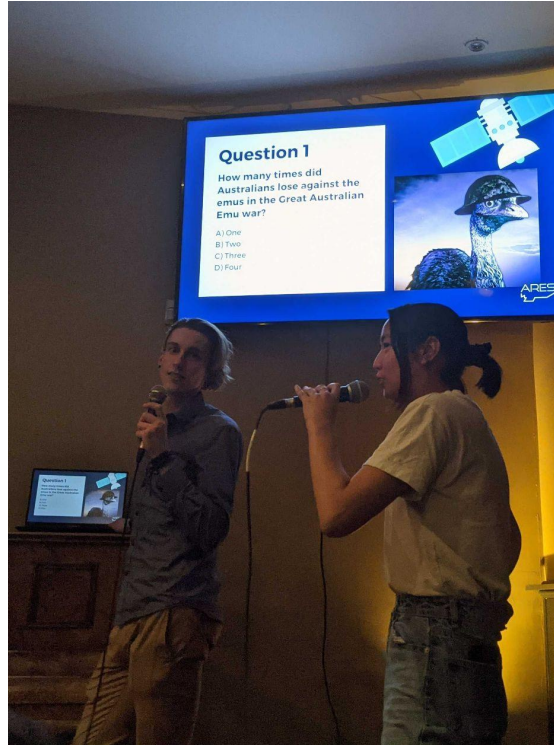
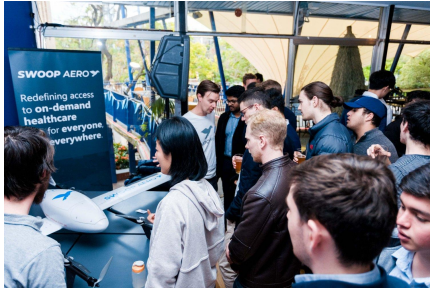


- 5 or 6 workshops this semester
- Workshops mostly in first half of semester over zoom
- Ba COVID restrictions we will plan in-person workshops for the 2nd half of the semester
- We will focus on **Ansys** simulation software - industry leader!



	Date		Workshop
Week 1	26 Jul	30 Jul	No Workshop
Week 2	2 Aug	6 Aug	Meet & Greet!
Week 3	9 Aug	13 Aug	Ansys Onshape + CFD Part 1
Week 4	16 Aug	20 Aug	No Workshop
Week 5	23 Aug	27 Aug	Ansys CFD Part 2
Week 6	30 Aug	3 Sep	No Workshop
Week 7	6 Sep	10 Sep	Ansys FEA
Week 8	13 Sep	17 Sep	No Workshop
	20 Sep	24 Sep	Mid Sem
Week 9	27 Sep	1 Oct	TBD
Week 10	4 Oct	8 Oct	TBD
Week 11	11 Oct	15 Oct	TBD
Week 12	18 Oct	22 Oct	TBD

ARES Events

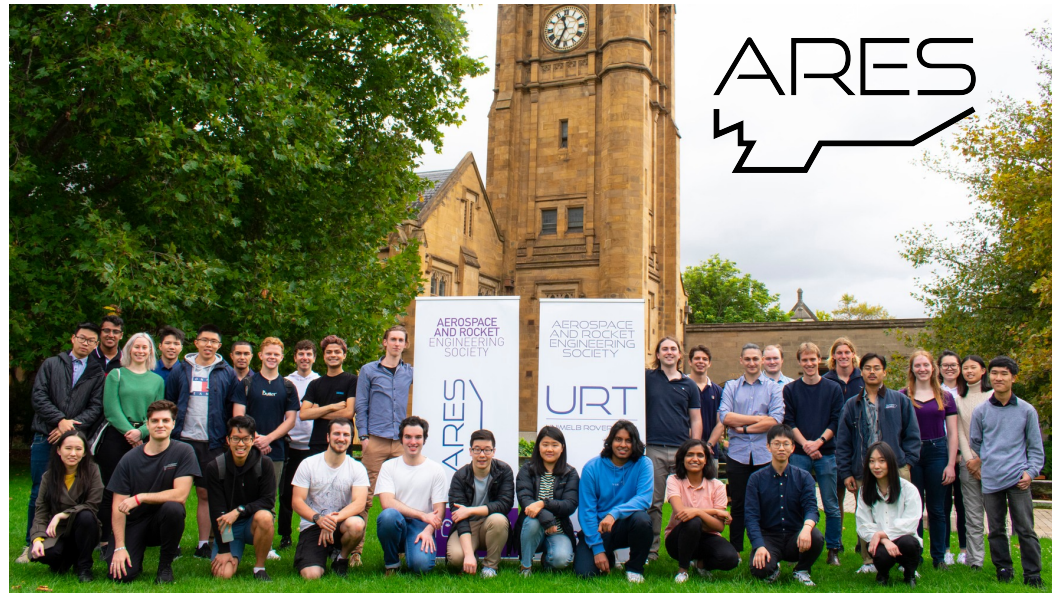


Plans for Semester 2:

- **Women in Engineering** (with MESS) - Originally planned for Wednesday 28th July (*stay tuned*)
- **ARES Industry Night** (*stay tuned*)
- Rocketry **Hackathon** Workshop
- Rocket **launches** on weekends
- **Webinars** with Australian Space Agency and Space Agency Start-Ups

How to join ARES and participate

- [Sign up to be a club member](#)
- Join our **Slack workspace** for updates and to join the rocket and rover project teams!



Next week - Ansys Onshape + CFD Part 1

See you next week! :)

