

The BLUESat Group

The BLUESat group is a collection of undergraduate students at UNSW Australia dedicated to creating easy-to-access space technology. BLUESat undertakes four projects; microsatellite development, off-world robotics, stratospheric balloon launches and maintaining a microsatellite groundstation. These projects offer a wealth of electrical, software and mechanical engineering opportunities for students.

BLUESat's Mission

“To take on practical space engineering projects and in doing so, give undergraduate engineering students hands-on experience with space technology.”

Facts About Us

- ❖ The oldest division of BLUESat is the satellite division, founded in 1997 and currently comprising of 10 full time members. Others include the robotics (OWR) division, with 20 members, followed by ground station (5) and balloon (3)
- ❖ We are a multidisciplinary society, with students studying for degrees in Mechatronics Engineering, Computer Science, Mechanical Engineering, and Electrical Engineering.
- ❖ The BLUESat group has participated in several domestic and international competitions, including the Canadian Satellite Design Challenge (in partnership with the University of Toronto) and the European Rover Challenge. We were the first Australian group to enter either event.
- ❖ The group receives ongoing mentorship from alumni, who currently hold positions at the European Space Agency, Google, and Optiver amongst other prominent tech companies.
- ❖ BLUESat regularly holds outreach events - taking our equipment to Primary and Secondary Schools to get children interested in space and robotics. The group also attends many UNSW Australia events and functions, presenting demonstrations and displays.



Projects

SATELITES

Cubesat

The BLUESat group have been engaged in active satellite development for over 17 years. Our current focus is on CubeSat-spec microsatellites, a format that has seen significant domestic and international use. The BLUESat group has worked on high-level design as part of the Canadian Satellite Design Challenge, and is working on completing demonstration models of key satellite subsystems.

Groundstation

BLUESat is currently developing what will be one of the only student run, student built and student maintained satellite groundstations. This groundstation will offer services to academic and business groups throughout Australia and beyond, putting BLUESat in a unique position to access the global space community.

Stratospheric Balloons

Our High Altitude Light Balloon projects provide a platform from which a payload can be tested in near space conditions. A combination of On-board GPS and APRS radio communication provide accurate position and altitude data, allowing us to track the balloon and obtain information for the duration of the flight. This project is extremely high-visibility, garnering significant attention from regional and metropolitan news.

OFF-WORLD ROBOTICS

The BLUESat Off-World Robotics division develops rovers for competitions centering around applications in off-world exploration. Our teams have entered and placed well in international and local competitions, most recently at the European Rover Challenge in Poland. The team is currently developing a second generation rover to build on previous successes.

Become a Sponsor

In sponsoring BLUESat, you and your company would not only be helping us innovate and create new satellites and robotic platforms, but you would also be placing your company in direct contact with the UNSW engineering student body. BLUESat sponsors enable the next generation of engineers to develop the skills essential to and innovation in the workforce.

Outreach and Presentations

In addition to developing exciting space projects, BLUESat also aims to get people interested in engineering and showcase our creations to the general public. BLUESat regularly hosts a wide variety of events, which range from public workshops to science and technology conferences— a brief overview of each type of event run by BLUESat is featured in the table below.



Public Workshops

Senior members and alumni hold public workshops and lectures on the principles of engineering, design and project management.

The skill levels range from beginner (e.g. the basics of design) to advanced techniques (e.g. computer architecture and system design)

School Outreach

BLUESat presents at Primary and Secondary school to introduce children to science and engineering and get them interested in innovation.

Recruitment Events

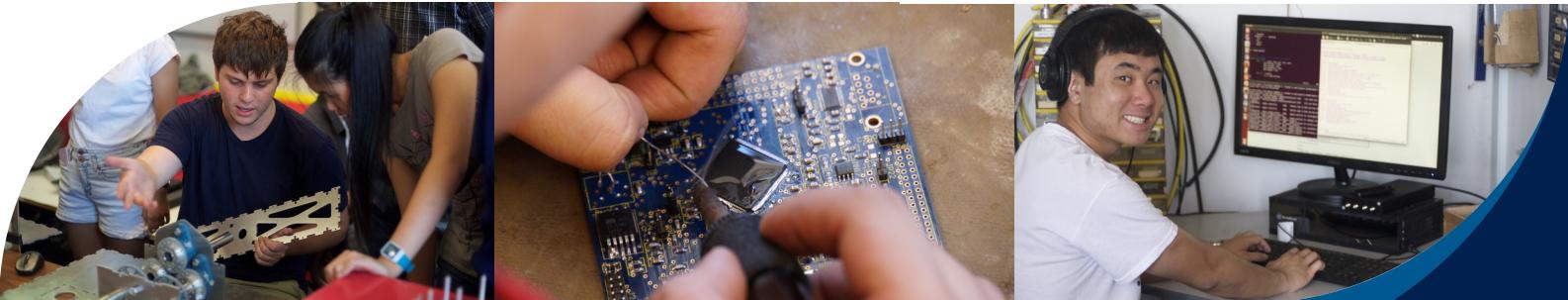
Every Semester, BLUESat in conjunction with other student projects at UNSW hold large scale recruitment events aimed at first and second year students to recruit members for the team

Public Tech Demos

On the completion of a major project milestone, BLUESat will hold a public tech demo inviting prominent UNSW staff members and students to see our work

Science and Technology Conferences

BLUESat regularly presents at and attends science and technology conferences, such as the Australian Space Research Conference and the Off-Earth mining Forum, promoting awareness of our work.



Sponsorship Levels

BLUESat offers four levels of annual sponsorship benefits: Bronze, Silver, Gold, and Platinum. Bronze level sponsorship benefits are received by sponsors who have donated from 100 AUD up to 1,500 AUD. Silver, and Gold level benefits are provided at sponsorship milestones of 1,500 AUD and 3,000 AUD respectively. Platinum level benefits are obtained through a 7,500 AUD or in-kind support of comparable value. The benefits of each level are outlined in the table below and detailed on the following page.

BENEFITS	BRONZE < \$1,500	SILVER \$1,500+	GOLD \$3,000+	PLATINUM \$7,500+
Monthly updates on the project's progress and invitations to BLUESat events	✓	✓	✓	✓
Company name and logo on BLUESat website and Facebook page.	✓	✓	✓	✓
Company logo on BLUESat posters and flyers		✓	✓	✓
Visible branding and verbal acknowledgement at BLUESat presentations		✓	✓	✓
Company logo displayed on all BLUESat clothing and merchandise			✓	✓
Visible signage on one side of the rover			✓	✓
Dedicated space on promotional material			✓	✓
Joint events with BLUESat				✓
Branding on top surface of rover				✓

Sponsorship Levels

BRONZE - < \$1,500 AUD

- You will receive monthly progress updates and invitations to BLUESat events.
- Your company logo and name on the BLUESat Website and Facebook Page

SILVER - \$1,500+ AUD

- Bronze level benefits
- Your company logo on all BLUESat promotional materials, such as posters and flyers. These are commonly distributed at UNSW Engineering Events, University Open Days, and lectures.
- Visible branding and verbal acknowledgement at BLUESat presentations. These include technical workshops attended by students, as well as academic presentations.

GOLD - \$3,000+ AUD

- Bronze and Silver level benefits
- Your company logo displayed on all BLUESat clothing and merchandise, such as hoodies and shirts. These act as a uniform for BLUESat members and are commonly worn about campus.
- Visible signage on one side of the rover. The rover will attend all BLUESat promotional events and will also compete in international competitions, increasing your company's public exposure.
- Sponsored informational content in BLUESat promotional events. This provides your company its own dedicated promotional space on promotional material

PLATINUM - \$7,500+ AUD

- Bronze, Silver and Gold level benefits
- Joint events with BLUESat, offering direct access to UNSW's engineering student body.
- Branding on the top surface of the rover, and prominent branding on satellite demonstrations. These are the most visible surfaces, maximising your company's exposure at university events and International competitions

Contact Us

If you have any enquiries regarding the BLUESat team and projects, or wish to express interest in becoming a sponsor, more information can be located on our website and Facebook page, or you can direct your questions to us via email. All of the relevant contact information is listed below.

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