## Position Summary

The UNSW Faculty of Engineering is one of the world’s best Engineering schools. We have a long history of developing and bringing to market many important new technologies that have brought significant positive impact for society.

Sunswift Racing is a UNSW project that was founded back in 1996 by a small group of electrical academics and PhD’s who had the idea to build a car to compete in the famous World Solar Challenge.

28 years on the project at any one time has up to 100 of Australia’s finest undergraduate engineering students that since 2020 have designed and built prototype electric cars to compete in the Bridgestone World Solar Challenge which it won for the first time in 2023. Establishing the latest car Sunswift 7 as the current Guinness World Record holder the worlds fastest EV over 1000km single charge of the battery which created huge media attention globally.

To take this success to the next level, The Trailblazer for Recycling & Clean Energy (TRaCE) program in partnership with UNSW’s Sunswift Racing team, are establishing a new dynamic position of ‘Commercialisation Lead’ to identify commercially viable IP and technologies within Sunswift’s world-record breaking solar powered racing car and develop a strategy to bring those to market.

This role reports into Professor of Practice & Sunswift Racing Team Principal.

## Accountabilities

This role will work alongside the Sunswift Racing Team Principal to:

* Establish a commercialisation team that will audit innovations and IP developed within Sunswift Racing and understand their potential as low-carbon market-ready solutions. This will form the basis of Sunswift Racing’s Technology Strategy to bring those high impact technologies to market.
* Develop and implement the Technology Strategy, manage the business case, oversee the commercialisation of Sunswift’s intellectual property (IP) and develop a range of funding and industry partnerships to enable commercialisation.
* Establish Sunswift Racing as a trusted Research & Development facility that produces its own ‘world first’s’ and a resource that industry can trust as the fastest moving research laboratory to come to with a problem that needs solving.
* Focus on R&D areas including: Transport specific photovoltaics; Battery storage; Hydrogen fuel cell; Energy management; Automation; V2X Technology; Recycled and sustainable material solutions; Infrastructure.
* Establish and execute the Sunswift Racing Technology Strategy, ensuring alignment with industry needs and market opportunities.
* Audit, manage and document Sunswift Racing’s IP portfolio.
* Identify and prioritise technologies with high commercialisation potential and impact.
* Provide project management leadership and expert advice throughout the development and establishment of R&D projects and programs of varying complexity and size with university and industry partners.
* Proactively identify and form strategic partnerships with industry stakeholders and investors.
* Work in partnership with existing support mechanisms and teams from across the University including releavent research teams and the Division of Research & Enterprise.
* Strengthen Sunswift Racing’s alumni network and industry relationships to leverage opportunities that enable the Technology strategy.
* Empower Sunswift students with skills in industry engagement, IP management and commercialisation.
* Align with and actively demonstrate the [UNSW Values in Action: Our Behaviours](https://unsw.sharepoint.com/sites/values-in-action) and the [UNSW Code of Conduct](https://www.gs.unsw.edu.au/policy/documents/codeofconduct.pdf).
* Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

* Relevant tertiary qualifications or equivalent industry experience or an equivalent level of knowledge gained through any other combination of education, training and/or experience.
* Experience in product development and bringing a deep tech product from lab to market.
* Proven experience in business strategy development, commercialisation and IP management.
* Highly developed networking, negotiation, and conflict resolution skills, including the ability to manage projects involving diverse interest groups/stakeholders.
* Excellent leadership and extensive experience in managing and motivating a team, with an ability to work collaboratively to quickly establish and maintain a high level of personal and professional credibility with the wider team and stakeholders.
* Established networks and ability to engage with industry partners and investors.
* Knowledge of the transport and mobility sector and the role of renewable technologies is highly desirable.
* Experience in an academic or research environment is a plus.
* An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
* Knowledge of health & safety (psychosocial and physical) responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position