

*Partnership Brochure*

# CAMBRIDGE UNIVERSITY RIVIERA RACING

*Powered by hydrogen, driven by innovation*



CAMBRIDGE UNIVERSITY  
RIVIERA RACING



UNIVERSITY OF  
CAMBRIDGE

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*Powered by hydrogen*



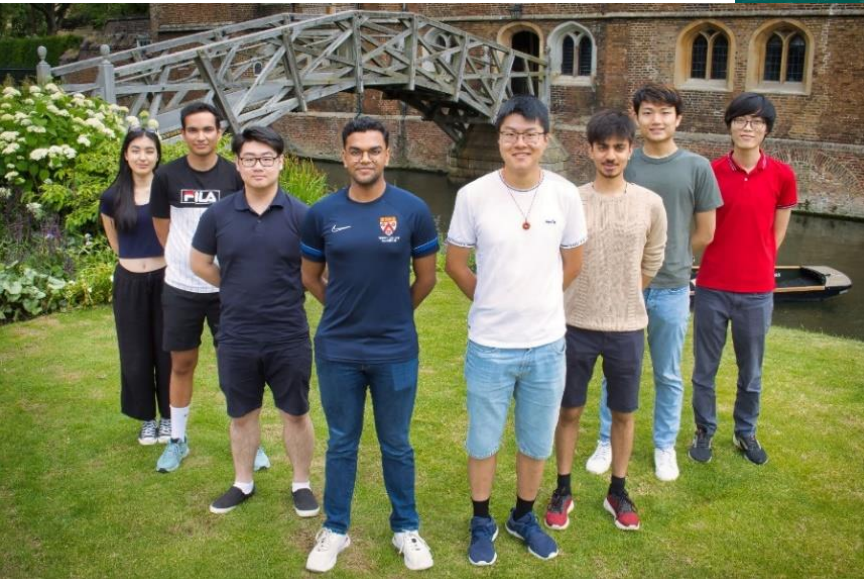
*Driven by innovation*

# INTRODUCING RIVIERA RACING

Cambridge University Riviera Racing is a team of versatile students, each bringing a **unique set of strengths** to the table as we embark on a ground-breaking mission to design and build a **catamaran racer** to compete at the Monaco Energy Boat Challenge.



Fuelled by hydrogen and equipped with youthful talent and leading industry expertise, we are committed to pushing the boundaries of performance and **sustainable technology** over the next year. Join us on our journey to **design, build and race** a competition winning boat!



## OUR MISSION

Our aim is to serve as a hub for inventive students at **Cambridge University** to develop their skills with a real-world engineering challenge in an environment which encourages **creativity, experimentation, and excellence**.

We strive to support innovation in the maritime industry through **collaboration with leading industry partners**.



## OUR VISION

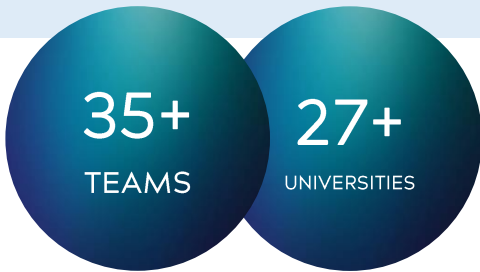
We envisage **hydrogen** being fundamental part of the journey to a more **sustainable maritime future**. Through this project, we aim to demonstrate the viability of hydrogen in this space.

With shipping forming the **backbone of international trade**, it is crucial that we innovate and develop alternative fuel sources for the industry.

# ABOUT THE CHALLENGE



The Monaco Energy Boat Challenge, is an international competition between pioneers in yachting, requiring competitors to test their zero-emissions creations in a series of races. The competition annually attracts the world's press to the races, with eyes on the tech talks and industry pitches.



*Yacht Club de Monaco*

Acting as the competition host, the Yacht Club de Monaco builds on a strong history of innovation, reinvigorated in the Capital of Advanced Yachting. The Yacht Club de Monaco brings together the most prestigious yachts in the world under its burgee, making it uniquely powerful as a forum for sustainable innovation in the maritime industry.



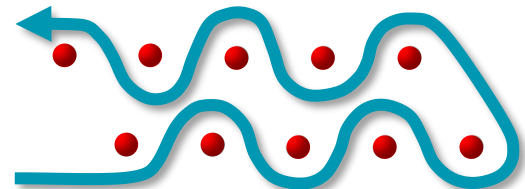
## THE RACES

### SPEED TRIAL



A test of pure speed and raw power

### SLALOM



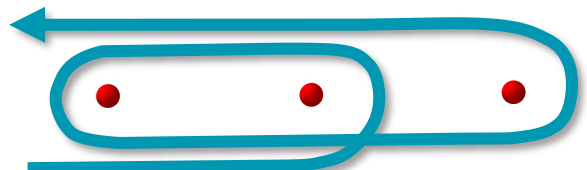
A challenging course to test both manoeuvrability and pilot skill to the limit

### ENDURANCE



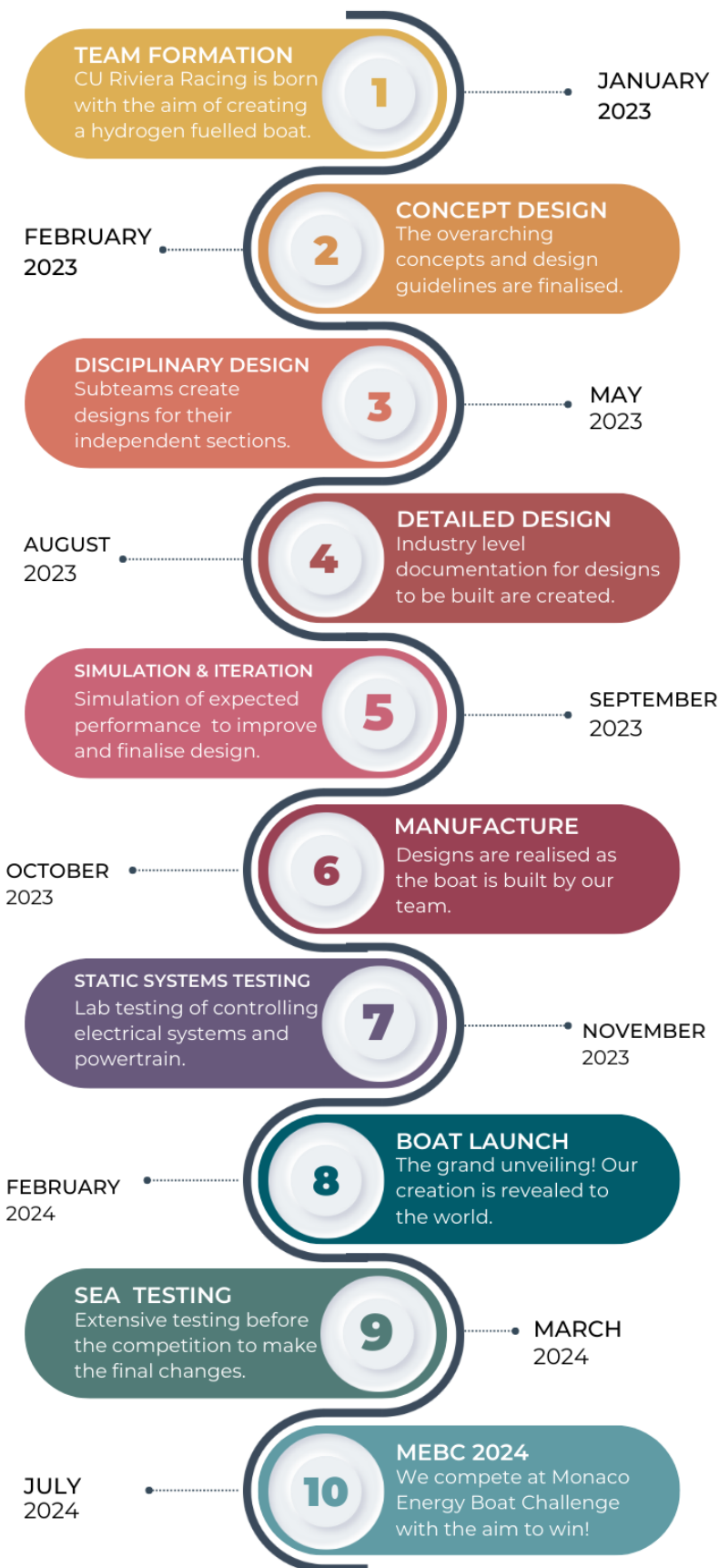
A technically difficult test of range, requiring a delicate balance of speed and efficiency

### CHAMPIONSHIP



Intense head-to-head knockout races to pit our creations directly against each other

# OUR ROAD TO THE COMPETITION



## OUR NEXT STEPS

We are currently working at the **Detailed Design** stage, with each sub-team working in collaboration with our industry partners to design **competitive custom solutions** across the boat.

We have also confirmed the specifications of the **core components** required within the boat and are looking for **industry partners** to procure an appropriate **fuel cell and battery system** soon.

The manufacturing of our **bespoke propulsion pods** is now also underway, with **physical testing in our labs** and through **CFD** to be taken into consideration as we decide on the final design.

As we move ahead, we are looking for **suppliers to collaborate** with to realise our concepts as well as partners who can support us with **funding and technical advice**.

# OUR CONCEPT



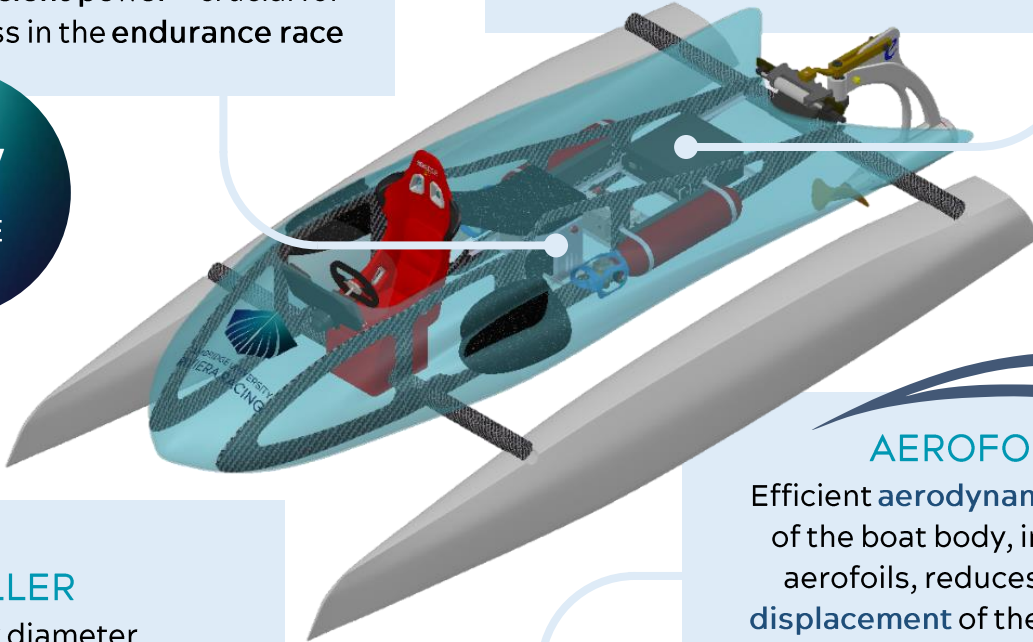
## FUEL CELL

Reacting hydrogen with oxygen in our fuel cell provides **3kW** of clean, efficient power - crucial for our success in the endurance race



## BATTERY

Our **10kW** battery, capable of **instantaneous power delivery** at the request of the pilot, will be our key to victory in **high-speed races**



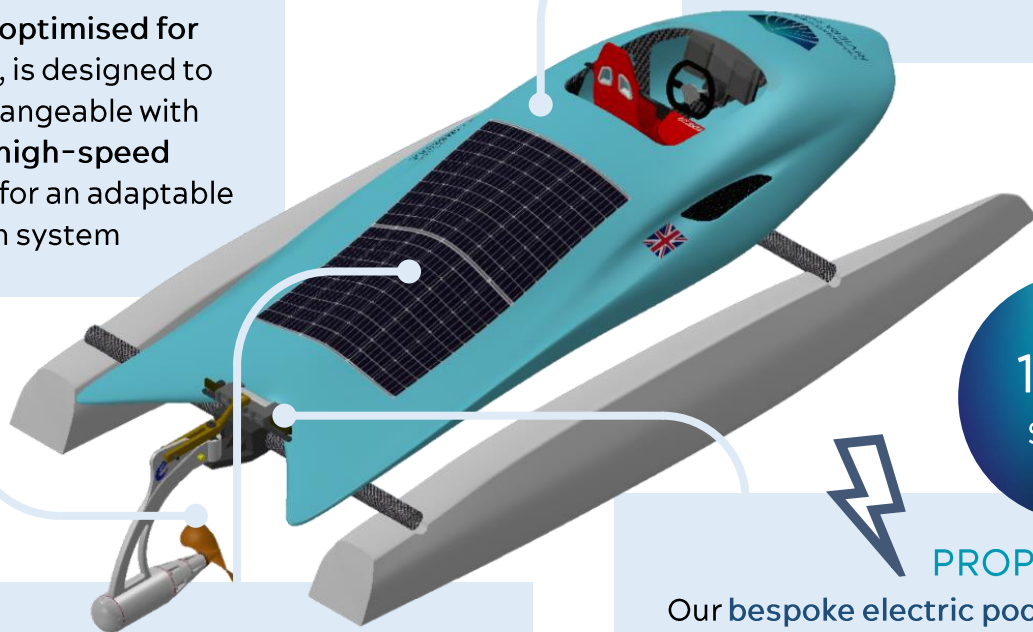
## PROPELLER

Our larger diameter propeller, **optimised for efficiency**, is designed to be interchangeable with our sleek **high-speed propeller** for an adaptable propulsion system



## AEROFOIL BODY

Efficient aerodynamic design of the boat body, inspired by aerofoils, reduces **effective displacement** of the vessel by up to **20%**



## SOLAR PANELS

Flexible **photovoltaic cells** moulded into the shape of the aerofoil body provide up to **600W** of continuous power to the motors



## PROPULSION

Our **bespoke electric pod** designed in collaboration with **Pulling-e Propulsion** can cruise efficiently at just **3kW** during the endurance race and ramp up to **12 kW** when its full potential is required

# MEET THE TEAM



## OPERATIONS

The Operations Team keep the Riviera Racing running behind the scenes, taking charge of tasks ranging from recruitment to procurement.



**HARSH SINHA**  
Operations Director  
*Manufacturing Engineering*



**XIAOLI BIGGS**  
Events & Outreach Lead  
*Engineering*



**DANIEL READ**  
Media & Press Lead  
*Engineering*



**DIVY DAYAL**  
Finance & Procurement Lead  
*Economics*



**CAITLYN UNTONO**  
Social Media & Marketing Lead  
*Economics*



**PARVATHY SUNIL  
MATTAPPILLY**  
Partnerships Liaison Lead  
*Engineering*



## ENGINEERING

Comprising of a cohort of ambitious young engineers and scientists, the Engineering Team are responsible for the technical realisation of project.



**RAY WANG**  
Chief Engineer  
*Mechanical Engineering*



**MRIDHULA SRIDEVI  
PRABHAKAR**  
Propulsion Systems Lead  
*Aerothermal Engineering*



**ANNABEL GRAY**  
Body & Structures Lead  
*Engineering*



**SANADI ILANDARIDEWA**  
Hydrogen & Fuel Cell Lead  
*Mechanical Engineering*



**THOMAS YAM**  
Electrical Power Lead  
*Electrical Engineering*



**NIKKO TEN HAVE**  
Software & Control Lead  
*Information Engineering*

# GETTING INVOLVED

## TESTING NEW TECHNOLOGIES AND SUPPORTING INNOVATION

Our boat is a testbed for the most innovative ideas in the industry, with extensive testing in the run-up to the competition allowing our partners to have their products tested in high-performance scenarios. All our partners are supporting our goal of proving the viability of hydrogen as the fuel of our marine future.

## PUBLIC EXPOSURE FOR YOUR COMPANY AND PRODUCTS

On our mission to increase awareness of hydrogen and other sustainable technology, we are always looking to spread the word about our project and partners. With opportunities ranging from product placement at events and social media to branding on uniforms and the boat, our partners benefit from our marketing team's tireless work internationally.



## INSPIRING YOUNGER GENERATIONS & ESG

Supporting Riviera Racing represents a commitment to the environment and social aims by supporting the education of young people in engineering and the maritime industry. Through open days and outreach events for local schools, we aim to encourage the youth of today to create tomorrow's energy solutions.

## RECRUITING & CREATING CONNECTIONS IN CAMBRIDGE

The Riviera Racing family consists of the world's brightest students, pioneering companies and academics. Along with the strong ties made from close collaboration, partners benefit from exclusive networking events and the opportunity to host recruitment events within the Department of Engineering.



# PRESS & COMMUNICATIONS



## INTERNATIONAL MEDIA

As one of the **biggest annual events for maritime innovation**, the Monaco Energy Boat Challenge draws media outlets from **70+ countries**. We will also publish **joint press releases** with partners, increasing your visibility in association with both this **competition and our university**.



## NEWSLETTER

We send our **termly newsletter** to the whole Riviera Racing family, including students, academics, and partners. This newsletter features **publicity material** to **inform our community** about the products offered by our partners.



## SOCIAL MEDIA

With accounts across a wide variety of platforms and a **tech savvy communications team**, we will **post consistently** on all our platforms to **maximise engagement** throughout the build cycle and **promote our partners**.



## CONFERENCES & EVENTS

Riviera Racing are regularly invited to attend a number of conferences and events such as the Monaco Ocean Week or the Southampton International Boat Show. On our journey to the Monaco Energy Boat Challenge, we will continue to **attend leading industry events** to **spread the word** about our project and partners.

# OUR PARTNERSHIP PACKAGES

We would welcome **sponsorships in-kind**, with the most appropriate band for each partnership determined on a case-by-case basis.

We are also open to provide alternative benefits beyond those mentioned below to best tailor to your company's needs and welcome discussions to arrange these.

PARTNER BENEFITS	BRONZE	SILVER	GOLD	DIAMOND/TITLE
<b>COMPETITION PROMOTION</b>				
Small logo on boat hull & back of uniform				
Medium logo on boat hull & back of uniform				
Large logo on boat hull & back of uniform				
Prominent logo on boat hull & front of uniform				
<b>PRINT &amp; MEDIA PROMOTION</b>				
Small logo on document & video closing pages				
Medium logo on document & video closing pages				
Large logo on document & video closing pages				
Prominent large logo on document & video closing pages				
Logo in footer of document pages				
<b>NEWSLETTER</b>				
Termly team progress updates in our newsletter				
Quarter page promotion in team newsletter				
Half page promotion in team newsletter				
Full page promotion in team newsletter				

# PARTNER BENEFITS

BRONZE

SILVER

GOLD

DIAMOND/  
TITLE









## WEBSITE & SOCIAL MEDIA PROMOTION

Logo and company description on our website & social media				
Riviera Racing promotional material for your website & social media				
Joint press release announcing partnership				
Product placement at events and on social media				
Bespoke marketing campaign material for both our and your online channels, including websites and social media				
Promotional product stand at our events				

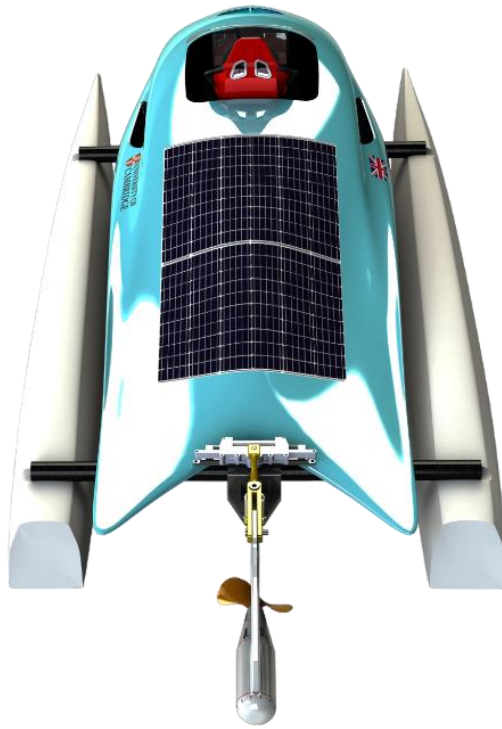
## TALKS & PRESENTATIONS

Invitation to host talks promoting your internships & graduate schemes to our team				
Invitation to host talks at Cambridge University promoting your internships & graduate schemes to students at Cambridge				
Presentation about us at your company HQ				
Presentation about us with the boat at your company HQ				

## EVENTS

Invitation to boat launch unveiling				
Promotional product stand at our events				
* Boat launch event named in honour of your company				
* VIP access to MEBC including opening and closing ceremony and conferences				
* VIP lunch experience at member-only Yacht Club de Monaco restaurant				

\* These rewards will only be available to our highest contributing Diamond/Title partner.



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[team@rivieraracing.co.uk](mailto:team@rivieraracing.co.uk)



Cambridge University Riviera Racing



[CU\\_RivieraRacing](https://www.instagram.com/CU_RivieraRacing)



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