

Better Futures+ Internships

About the company

Founded in 2019, Onsee is a hardware and cycling data company on a mission to bring joy to cycling journeys. Onsee products help cyclists show us where they feel unsafe so we get the right people to fix it. We are developing a Smart Bike Camera-light that saves instant replays of scary moments with data overlays using smart sensors or by clicking a handlebar button. With our app, one click and report to authorities, share with the community to plan safer routes and get tailored safety tips.

Onsee platform's safety experts and algorithms investigate every incident, giving transport professionals fast, easy-to-understand near-live maps and tools. Following successful pilots in Oxford, London and Jersey, we will be launching this product to Kickstarter in April 2022 and subsequently put the camera-light into production over the following 6 months.

<https://www.onsee.co.uk/post/eyes-on-the-road-reshaping-the-future-of-cycling-cities>

<https://www.imperialenterpriselab.com/casestudies/onsee/>

<https://www.the-spokesmen.com/rebo/>

About the role

We are seeking an electronics and/or embedded engineer who is up for a challenge and wants to experience bringing a real product to market. You'll not be treated like an intern - we'll throw you in the deep end like a real engineer and you'll learn a lot.

You'll work alongside our team, with mentoring from experienced members, to put the camera-light into production. Depending on when you join, your work may include: functional testing/iterating the camera and lighting electronics; designing embedded software for Bluetooth, low power optimisation, lithium battery management, video live streaming; conducting EMC evaluation; design and execute engineering validation testing; design hardware test rigs, calibration of image processor; design for manufacture evaluation; managing PCB/PCBA/component suppliers

Previous interns have gone on to secure full time roles at Dyson, Sportable and Vertical Future.

About the intern

- You should have an electronics and/or embedded software background and have designed, prototyped, and tested interesting (fun) projects in the past. You don't need to know everything, but you'll be expected to learn fast on the job.
- Useful knowledge: DCDC, embedded C (Not just arduino), bluetooth, image processing, Linux, RF theory, battery management, Python
- Extra + if you're passionate about climate change, cycling, and sustainability

Length of internship:

3 months, fully remote, normal working hours are 9-5 but is flexible, we discourage late working.

To apply: please email your CV and a covering letter outlining your suitability to the following:

crispian@onsee.co.uk

e.quigley@imperial.ac.uk

Clinternships@imperial.ac.uk