

Project Title: **Manufacturing Management**

Supervisor: **TBC**

Project details:

Working with a dynamic workforce and budget, manufacturing each CUER vehicle poses its own challenge. On top of this, we are creating a one-off vehicle, with little space for error and are restricted to working around the Cambridge academic year. We are excited to be designing a car to compete in a new race category, with more seats, and marks for practicality, so it's even more important to organise, manage and oversee the manufacturing process to ensure we have a competitive car.

Companies have production/supply chain control systems and processes that automatically manage these tasks; what is available for voluntary groups and how should/could they be adapted for the increased level of risk associated with resource uncertainty and lack of bargaining power?

The outcome of the project will be a fully developed resource plan and schedule for the full manufacture of the 2019 CUER cruiser class vehicle. This will include a detailed timeline for manufacture and advanced securement of in-kind donations of materials and facilities required, such that when the time comes for each and every part to be manufactured, we are more efficient. This will be particularly essential to beat big shut down periods or peak working months for companies, and in bringing forward the manufacturing timeline of previous years to allow more buffer for cancellations from firms. This will require agreements to be made with sponsors and supporters of the team, some procurement, and working closely with the vehicle designers to ensure we have the correct capabilities. It is also important to maintain good communication with our sponsors in order to gauge their workload and ensure that our components will be manufactured on time as per the agreements.

Closely linked projects: All

Desired Skills and Experience:

*Note: These are not essential (unless listed in **bold**) and those who receive roles will be offered training to compensate for any gaps.*

- Experience in manufacturing, potentially an MET student
- Manage relationships with sponsors and other stakeholders
- Good organisation and resource management
- Good communicator of ideas
- Willing team player
- Prior interest/experience with solar cars/CUER
- Flexible and able to work to tight deadlines