

Better Futures+ Internships

ION-O Tech Ltd

About the company

We are a recent start-up, launched by three Imperial College staff ([Billy Wu](#), [Shayan Sharifi](#), [Sam McKenney](#)), with the aim of developing a folding e-bike featuring a unique battery management system and folding geometry to deliver a lighter-weight and more accessible product than currently available on the market.

About the role

This project is to develop the first iterations of the product prototype, prior to seeking substantive investment capital for subsequent stages of R&D and commercialisation.

This will entail working closely with the existing team to: refine and iterate the digital design, specify and source materials and off-the-shelf components, fabricate prototypes and electrical control systems, and test.

About the intern

This is a complex design and manufacturing project and any intern should hold an interest in cycling and urban mobility in addition to a strong engineering background. Skills which will be of particular value to this project include:

- *Solidworks, or equivalent CAD software*
- *Manufacturing skills, including:*
 - *Welding*
 - *Milling and turning*
 - *3D printing*
- *Electronics*

This project requires broad product design and engineering skills and we will be working alongside the intern throughout, with a view to making the most of the unique skills they will bring to our team, and to give them the opportunity to widen their skillset with experience in: ebike design, batteries and low carbon transport, business planning and market research, and the opportunity to engage in hands-on electrical and mechanical design and manufacture.

Length of internship:

3 months minimum

Remuneration: London Living Wage (£10.85 per hour)

To apply: please email h.flower@imperial.ac.uk and admin@ion-o.co.uk