

## CPC498 – Future Aviation System of Systems Engineer

Location	Milton Keynes or London
Reporting to	Future Flight Team Lead
Working hours	Full Time
Contract type/duration	Permanent
Date written	November 2021
Closing date	25 <sup>th</sup> November 2021

*Come fly with us to transform the aviation transport system.*

### Purpose of the role

The Wright Brothers gave us flight, the jet engine got us across oceans, autonomous systems and batteries will offer new modes of flight. Welcome to Aviation's third revolution. . The Directorate is overseeing an ambitious and extensive Future Air Mobility delivery programme to answer questions of how these systems will integrate into society, how society will use them, how such systems will complement other modes of transport. The Directorate has its own programmes and is also at the heart of transport innovation working with central and local governments, industry, large and small and the vast network of universities.

### Key Responsibilities

We are looking for creative and energetic individuals, with a passion for making a difference and the ability to contribute to, and accelerate, the development of new air mobility technologies. Our Future Aviation System of Systems Engineers will work across the Catapult as well as with stakeholders in Government, industry and academia. We are looking for someone who can see the pieces of the bigger picture and are equipped to shape and deliver collaborative R&D projects to transform the aviation system as a result of technology transformation in air vehicles. These new air mobility vehicles need to be embedded into a mature sector as part of an aviation decarbonisation effort to deliver economic and social impact for the UK.

This means you will play a key role in delivering work packages or entire projects, working with colleagues and stakeholders understanding the interfaces across a wider aviation system. Project demands and types will vary, it's the nature of what we do. You will be required to organise and run workshops to explore the challenges of this exciting emerging market, gather requirements to overcome them all whilst delivering Air Mobility Programmes. You will be one of the voices from within the Catapult at external meetings and events communicating project findings to both specialists and wider stakeholders.

### Role responsibilities:

- Provide technical insights for projects relating primarily to the application of new classes of autonomous air vehicles, i.e. where and how the vehicle is being used versus the technicalities of the vehicle itself
- Work closely with customers, project partners and other industry / government / academic / aviation user stakeholders
- Deliver impactful analysis and reports to stakeholders across a range of themes such as such as Urban Traffic Management, Beyond Visual Line of Site, Urban Air Mobility, use case ecosystems of new modes of air vehicles.
- Deliver high quality activities that will attract industry to build the required capabilities for growth and innovation in order to address market barriers and create UK opportunity
- Provide coaching and mentoring where possible to more junior technical staff
- Support for business development by identifying opportunities and assisting in bidding activity such as writing proposals
- Represent the Catapult at relevant industry events, conferences and meetings

### Required skills and experience

- A degree in a relevant engineering or technical subject or equivalent experience
- Demonstrable experience in an industry or regulatory role combining aviation and innovation.
- Experience of working in a flexible, project-focused environment
- Able to solve complex problems or problems where a precedent may not exist
- Proven ability to establish relationships and work with a wide range of external stakeholders (e.g. industry, government, academia, airspace users)
- Able to teach, guide and coach others in technical tasks on a range of projects and delegate appropriately
  - Highly effective communicator with a high standard of written English and ability to communicate complex concepts to expert and non-expert audiences
  - Proven ability to establish relationships and work with a wide range of external stakeholders (e.g. industrial, government, academic)
  - Ability to work with minimal supervision and make decisions at a task level whilst collaborating with a wide range of stakeholders internally and externally
  - Flexible, with ability to contribute to multiple projects at the same time and pick up new skills/capabilities as required for different projects
  - Comfortable with ambiguity, and ability to turn into focused outputs
  - A passion for delivering a cleaner, greener transport system which ensures clean air in our cities and contributes to the UK's 2050 'net zero' carbon target

### Desirable:

- Further, relevant postgraduate (MSc/PhD) qualification
- Chartered in a relevant institution, or working towards chartership

To apply for this role please email us on [jobs@cp.catapult.org.uk](mailto:jobs@cp.catapult.org.uk) with your CV and covering letter attached quoting the ref: **CPC498**

*Employment here is based solely upon individual merit and qualifications directly related to professional competence. We strictly prohibit unlawful discrimination or harassment on the basis of race, colour, religion, national origin, ancestry, pregnancy status, sex, gender identity or expression, age, marital status, mental or physical disability, medical condition, sexual orientation, or any other characteristics protected by law. We also make all reasonable accommodations to meet our obligations under laws protecting the rights of the disabled.*