



## Principal/Senior Design Engineer – Propeller Hub & Dynamics

Sora Aviation

Job Title: Principal/Senior Design Engineer - Propeller Hub & Dynamics

Location: Bristol, UK

Term: Permanent, full time

### About us

Sora is Bristol, UK based start-up developing a 30-seat electric Vertical Take-Off and Landing aircraft (eVTOL) to deliver affordable, sustainable and scalable Advanced Air Mobility services. The S-1 is currently in preliminary design and Sora is rapidly growing its engineering team.

We believe in an open and honest culture that espouses freedom of expression and creativity from all of our employees. If you would like to be a part of an agile team at the cutting edge of zero emissions aviation, see below.

### Role summary

The S-1 is a battery electric tilt-rotor aircraft with multiple tilting “proprotors” (combination propellers and rotors). We are looking for an experienced propeller designer who will lead the design of the propeller hub assembly including pitch control mechanisms, linkages, bearings, actuation and supporting components.

This role is advertised at multiple experience levels.

### Key responsibilities

- Lead conceptual and preliminary design of overall propeller hub assembly including modelling of assembly in 3DX/CATIA
- Lead the integration of the rotor hub with the electric drivetrain
- Support definition of rotor blade root design, blade grips and hub retention assemblies
- Lead the design and selection of control mechanisms, bearings, actuation and instrumentation for hub assembly
- Support definition of overall vehicle architecture including aircraft control schemes

### Requirements

#### Essential

- Degree in Mechanical/Aerospace Engineering or other relevant field
- Experience in designing aircraft propeller hubs
- Proficient in CAD (preferably CATIA) including sketching, surfacing, 2D drawing and 3D modelling with appropriate GD&T
- An innovative mindset and approach to problem solving focused on generating new ideas

#### Desirable

- Experience in working on electric aircraft (preferably eVTOLs)
- Knowledge of gearbox design and integration
- Knowledge of rotor dynamics, stress and fatigue analysis



- Experience in working on helicopter/tilt-rotor systems or other dynamic systems

#### Diversity and Inclusion

Sora is an equal-opportunity employer and we encourage you to apply even if you may not have all the experience listed above. We recognise that talent comes in many different forms and we are committed to providing opportunities that create an environment of growth, diversity, and inclusion for everyone. We proudly reject discrimination in all forms.

#### Apply

You will need the right to work in the UK to be considered for this role.

To apply, please email your CV and a cover letter to [careers@soraaviation.com](mailto:careers@soraaviation.com). Your data will only be used for the purposes of this application and will be used fairly and lawfully as required by the Data Protection Act 2018.