

## **Development/Implementation of AS9100 accredited Quality Management System for a Rocket Manufacturing Facility**

**Code:** 21/50

**Company:** Skyrora Limited

**Location:** Cumbernauld, Glasgow

### **Company Description:**

Skyrora is a New-space small satellite launch vehicle engineering company, based in Scotland. Skyrora's mission is to provide a versatile and dedicated sovereign orbital launch capability to serve the world-leading satellite manufacturers local to the UK and Europe.

Small and Micro satellites are being used more and more in everyday life, with the manufacturing rate increasing year by year. There is currently a lack of launch opportunities for smallsats, and it is Skyrora's goal to open this access to space, to unlock the potential for all.

Inspired by the UK's historic Black Arrow programme, Skyrora is combining the UK's engineering heritage with new technologies to enable the UK to regain its leading role in space – as a champion of environmental sustainability.

Our main vehicle, the Skyrora XL, is a three-stage launch vehicle designed to carry more than 300kg in payloads into orbit. We have already successfully tested engines for this vehicle and plan to launch from UK soil in 2022, following confirmation of UK spaceport and regulations.

2021 is set to be a significant year for Skyrora with the expansion of operational activities, including launch operations, relocation to new premises and an increase in the manufacture of Skyrora Launch Vehicles.

This is an exciting opportunity to join Skyrora and support our aim to help Scotland to become a key player in the UK's space race.

### **Project Description:**

In conjunction with the UK Space Agency's SPIN programme, we are currently looking to offer one 8 week internship opportunity within our Technical Engineering Team.

The successful candidate will play a key role in the implementation of an AS9100 Quality Management System and support activities across all Skyrora sites, including our Rocket Facility and Test Site as we push closer to the completion of the Skyrora XL vehicle.

Skyrora's Internship programme provides you with the opportunity to harness the skills, knowledge and theoretical practice taught in university and apply these to an industry environment.

Over the duration of the internship, the successful candidate will be expected to:

- Familiarise themselves with AS9100 standards, reviewing key concepts to document procedure requirements and identify necessary records required for successful implementation.
- Interact with external consultants and internal Team Leads to record quality management processes.
- Develop and design early QMS requirements.
- Develop and implement quality management documentation and manuals across the company.
- Spend time with the design, manufacturing and operations teams to learn their processes.
- Write technical documentation in support of the QMS project.

**Applicant Specification:**

We are looking for a highly motivated candidate who has a passion for space, developing themselves and making a significant contribution to the UK space sector.

The successful candidate will be able to produce high quality documentation with excellent attention to detail and solid technical writing skills.

We are looking for a candidate who is actively enrolled in an undergraduate or post-graduate degree program in an engineering related field.

A keen interest in quality management or quality engineering would be preferable.

**Minimum Requirements:**

Our interns receive responsibility from day one, with access to a wide variety of training and support.

The ideal applicant should have the following:

- Strong analytical skills
- Good self-motivation and drive
- Ability to perform under pressure
- Diligence and ability to handle many deadlines at once
- Proven experience of informed decision making based on assessment of relevant information

- Experience of using Microsoft Office packages, particularly Word, Excel and Powerpoint
- ‘Black Box’ thinking: Can you solve a problem with little to zero input and deduce a solution

**Preferred Additional Requirements:**

Desirable skills/knowledge include:

- Experience of developing documentation and processes for manufacturing
- Some knowledge of EDM systems
- Some experience of manufacturing quality systems
- Experience of technical writing

**Further details:**

Our 8 week paid internship placement will see you contributing to major projects in the development of Skyrora XL and provides the opportunity to work alongside field experts within the organisation.

Candidates must have right to work in the UK, as Skyrora are unfortunately unable to sponsor work visas for this internship. The salary for this position is £1,500 per calendar month gross.

Selected candidates will be invited to an interview, prior to the virtual induction event to be held on 21 June 2021.

**Closing Date for Applications: 5pm Monday 7 June 2021**

Applications should be made through the online form on the Satellite Applications Catapult website before the closing date.

<https://sa.catapult.org.uk/work-with-us/space-placements-industry-spin/>

Please note that elements of the form left incomplete will be deemed to render the application ineligible. They will be checked for eligibility and forwarded to the employer. Email applications made to the Satellite Applications Catapult, UK Space Agency, or host organisations will not be processed.