Position: Product Engineer
Location: Harwell Campus, Oxford

Satraka is on a mission to connect the unconnected and serve the underserved with its innovative, cutting-edge tracking- and multi-beam antenna technology, providing broadband internet connections anywhere, anytime via 4G/5G-based terrestrial network (TN) and satellite-based non-terrestrial network (NTN).

Antenna is an exciting and challenging subject right at the core of all wireless telecommunication systems. This is particularly true in nascent, yet fast-growing high-data-rate broadband internet services, where both antenna performance, reliability and costs are put to the test.

Based at Harwell Science and Innovation Campus - the UK's Space Cluster, Satraka enjoys a highly dynamic and exciting environment and access to a range of world-class facilities & expertise such as RAL Space, Science and Technology Facilities Council (STFC) and Satellite Applications Catapult.

We are seeking a highly skilled and motivated antenna Product Engineer to join our dynamic engineering team. In this role, you will be responsible for translating prototype antenna designs into production-ready components and assemblies, managing batch production. This includes refining mechanical designs (e.g., antenna enclosure and steering system), ensuring environmental robustness (e.g., IP-rated protection), and collaborating with manufacturers on tooling, (e.g., injection moulding), production process and design-for-manufacture (DFM).

You will collaborate with cross-functional teams in RF, embedded software, mechanical and business development to deliver robust, optimized and reliable user terminals and tracking antenna solutions.

Key Responsibilities

- Collaborate closely with R&D teams to evolve prototype designs into final manufacturable products.
- Engineer and optimise antenna enclosures, radomes, baseplates and mechanical interfaces.
- Support design work to meet environmental protection requirements (e.g., IP67 water ingress).
- Work with manufacturers on tooling design, including injection moulding, CNC, casting and other processes.
- Conduct tolerance analysis, material selection and structural feasibility reviews.
- Prepare detailed drawings, specifications, BoMs, and manufacturing documentation.
- Participate in prototype builds and validation testing; coordinate design changes based on test data.
- Lead batch production.

- Drive Design for Manufacture (DFM), Design for Assembly (DFA), and cost-optimisation initiatives.
- Support troubleshooting of manufacturing issues and ensure alignment between design and production.
- Contribute to continuous design improvement throughout the product lifecycle.
- Assist R&D and BD team on new product designs, tests and customer trials.

Qualifications and Experience

- Bachelor's degree in Mechanical Engineering, Product Design Engineering or related discipline.
- Strong understanding of mechanical design principles, materials and manufacturing processes.
- Experience with enclosure design, sealing methods, environmental protection (e.g., IP ratings).
- Familiarity with injection moulding design guidelines, tooling constraints and production workflows.
- Proficiency with CAD tools (e.g., SolidWorks and Fusion 360).
- Practical experience with prototype development, testing, and iterative design improvements.
- Knowledge in antenna or RF product development is advantageous but not essential

Personal Attributes

- Self-motivated and driven to meet objectives
- Passionate about technical challenges, problem solving and practical innovation
- Willing to learn, share knowledge and go the extra mile for the team
- Quality-focused with strong attention to detail
- Detail-oriented, proactive and eager to take design ownership from concept through production.
- Strong communicator capable of working across R&D, BD, manufacturing and supplier teams.
- Hands-on mindset with strong problem-solving ability.
- Well-organised, able to manage multiple tasks and meet programme milestones.
- Collaborative team player committed to product quality and continuous improvement.

Benefits:

- Opportunity to take innovative antenna systems from prototype to commercial release.
- Competitive salary, paid holidays and pension contributions.

- Career development within a rapidly growing high-tech company.
- Work in a cutting-edge engineering environment within the UK's leading space technology hub.

If you are interested in working with Satraka, then please email your CV and a covering letter to info@Satraka.com with the job title you're applying for in the subject line.