

Position: Senior Antenna Mechanical System Engineer

Location: Harwell Campus, Didcot, Oxford, OX11 0QX

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 provided by LEO/MEO satellites or HAPS, where both antenna performance, reliability and costs are put to the test.

With its innovative and patented technology and through collaboration with satellite network operators, Satraka is making breakthroughs in antenna technology and offering cost-effective high-performing antenna solutions.

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.

Satraka's mission is to connect the unconnected and serve the underserved with its innovative, cutting-edge tracking-beam antenna technologies, providing reliable broadband internet connections via LEO/MEO satellites, HAPS and terrestrial 4G/5G network anywhere and anytime.

We are seeking a highly skilled and motivated Senior Mechanical System Engineer to take a pivotal role in our engineering team. This role combines hands-on design and development work with leadership responsibilities, including mentoring and overseeing all mechanical design-related activities and solutions for a variety of innovation tracking antennas. Join us to shape the future of innovative tracking antenna systems.

Key Responsibilities

- Leading mechanical design team and responsible for overall mechanical design activities.
- Working alongside RF engineering, providing integrated RF/Mechanical solutions and structure design for antennas.
- Responsible for full life cycle of product development—design, analysis, build, test and delivery.
- Prepare documentation for design, analysis, manufacturing, assembly, and testing processes.
- Define and execute mechanical testing and verification activities.
- Support Business Development with technical expertise for proposals and customer engagements.
- Interpret customer requirements, negotiate design solutions and address trade-offs.
- Oversee manufacturing and assembly to ensure quality and design alignment.
- Manage work schedule, resources and risks to ensure quality, on-time and on-cost delivery.
- Collaborate with the Project Manager(s) to ensure successful completion of overall project.

Qualifications and Experience

- Education: Bachelor's degree or higher in Physics, Mechanical Engineering, or related subjects.
- Technical Expertise: Proficient in mechanical engineering, structure and tracking mechanism design, stress/thermal analysis, environmental impact assessments and testing.
- Analytical Skills: Experienced with mechanical analytical tools and techniques for structural integrity analysis.
- Materials and Manufacturing Knowledge: Strong understanding of engineering materials, manufacturing methods and their limitations.
- Innovative Thinking: Capable of developing robust design solutions, critiquing ideas and addressing technical requirements independently.
- Communication Skills: Excellent ability to convey complex subjects effectively through presentations and discussions.
- Desirable Knowledge: Familiarity with antenna engineering principles is advantageous but not essential.

Leadership and Personal Attributes

- Proactive, self-motivated and results-driven, committed to meeting objectives and program milestones.
- Effective at managing multiple projects and balancing competing priorities.
- Strategic thinker with a hands-on approach to addressing technical challenges.
- Collaborative team player with strong interpersonal skills.
- Dedicated to knowledge-sharing, inspiring innovation and driving project success.
- Demonstrates strong technical ownership, guiding projects from concept to completion.
- Skilled mentor, fostering junior engineers' growth and ensuring high-quality outcomes.
- Quality-focused, with excellent attention to detail and a commitment to continuous improvement.

Benefits

- Work on cutting-edge technologies and innovative projects in a collaborative environment.
- Competitive salary, paid holidays and pension contributions
- Opportunities for fast career advancement and professional progression.

If you're interested in joining Satraka, please email your CV and cover letter to info@satraka.com ensuring the job title you are applying for is included in the email subject line.