



# Mechanical Engineer – Antenna Systems (Defense & Space) | UAN - A0E721

**Department: Mechanical Engineering / Defense & Space Antenna Systems**

**Location: Villejust, France**

**Type: Full Time**

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## **About the Role**

We're looking for a Mechanical Engineer – Antenna Systems to help MVG design and deliver advanced antenna systems used in defense and space missions. In this role, you will work at the intersection of mechanical engineering, RF performance, and harsh-environment design, developing rugged, high-precision hardware where reliability is critical. You will collaborate closely with RF, electrical, systems, and manufacturing teams to turn cutting-edge antenna concepts into flight- and mission-ready products.

## **About MVG**

MVG – Microwave Vision Group – is the global leader in electromagnetic field measurement solutions. With 400+ employees, offices across 4 continents, and over 25 years of consecutive growth, we help the world's most innovative companies test, validate, and push the boundaries of wireless technology. Our mission: Testing Connectivity for a Wireless World.

Join us to shape the future.

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## Responsibilities

Lead the mechanical design of antenna-system parts and assemblies, including radomes, enclosures, mounts, and structural interfaces.

Own mechanical designs from concept through qualification and production, ensuring alignment with mission and product requirements.

Develop designs for thermal performance, shock, vibration, lightning protection, and EMP survivability.

Collaborate with RF engineers to ensure mechanical designs preserve antenna performance.

Produce 3D CAD models, detailed drawings, and Bills of Material (BOMs).

Support prototype builds, integration, environmental testing, and qualification campaigns.

Drive design reviews, trade studies, root-cause investigations, and supplier/manufacturing coordination to ensure designs are producible and cost-effective.

## Requirements\*

Bachelor's or Master's degree in Mechanical Engineering or equivalent.

5+ years of experience designing mechanical hardware for defense, space, aerospace, or ruggedized electronics.

Strong proficiency with 3D CAD tools such as SolidWorks, Creo, CATIA, or equivalent.

Solid understanding of materials, GD&T, and mechanical design fundamentals.

Experience designing hardware subject to thermal, shock, and vibration constraints.

Ability to create and interpret detailed engineering drawings and specifications.

Ability to support hands-on integration and testing activities when needed, communicate clearly across disciplines, and document work rigorously.

French nationality and eligibility to obtain French security clearance, as required for programs subject to French defense and export control regulations.

## Nice to Have

Experience with antenna systems, RF hardware, radome design, and RF-transparent materials.

Familiarity with lightning protection, grounding and bonding, EMP hardening, and dielectric or metallic materials used in RF environments.

Knowledge of military and space standards such as MIL-STD-810, MIL-STD-461, MIL-STD-464, and ECSS.

Exposure to structural, thermal, or vibration analysis tools (FEA) and PDM/PLM-driven configuration management, including ECR/ECO processes.

## How to Apply

Send your CV and a short cover note to [careers@mvg-world.com](mailto:careers@mvg-world.com) with the subject line: Mechanical Engineer – Antenna Systems (Defense & Space) – Application. For questions or more information, contact Karine Barriant at [karine.barriant@mvg-world.com](mailto:karine.barriant@mvg-world.com). We look forward to hearing from you!

*\*This role may require eligibility for access to classified or sensitive information under applicable national security laws. Possession of an active clearance is not required, and the company may conduct necessary background checks or request supporting documentation.*

*MVG - Testing Connectivity for a Wireless World*