mmWave Antenna Research and Development Engineer (All Levels including Senior)

Job Summary

Novocomms Limited ("NVC") –Birmingham (Potentially London)

NVC is looking for a full-time mmWave Antenna Research and Development Engineer (Ref: 2024MAE03) who are expected to work closely with RF layout, software, system design teams. This job involves design, testing, characterization, and development of new mmWave antenna solutions for consumer, commercial electronics and Access Points.

All levels of experience are welcome, from junior to senior, full-time/consultant
PhD student is also welcomed as Internship/Part-Time.

Duties & Responsibilities

- Knowledge and understanding of mmWave antenna specifications (EIRP, EIS and CDF etc.) of consumer, commercial electronics and Access Points.
- Maintaining the competitor analysis reports and literature review for latest mmWave antenna technologies.
- Antenna research and development across mmWave bands for implementation into various user terminals and Access Points.
- Conduct beam analysis and system analysis.
- Simulate, design and implement antenna array solutions.
- Work closely with RF layout engineers to design and optimize interconnections between antennas and RF front-ends.
- Work in a team environment at all phases from concept design to final products.
- Liaise with suppliers or manufacturers.
- Perform antenna measurement and analysis the obtained results.
- Complete technical reports for internal and external purposes.
- Support clients with requirements definition, project definition, and project planning.
- Simulate, design and implement innovative antenna solutions suitable for small form factor devices.
- Collaborate with RF engineers and programming engineers from product concept to production.

Essential Knowledge & Skills:

- You should have BEng/MSc (PhD preferred) degrees or equivalent experience with an emphasis in mmWave antenna arrays, and antenna-in-packages.
- Strong practical and theoretical background and understanding of electromagnetics and antenna/antenna array theory.
- Proficiency in electromagnetic solvers such as CST EM Studio, HFSS, ADS, COMSOL, Icepak and Cadence Allegro, etc.
- Proficiency in MATLAB and Python.
- Strong hands-on experience of antenna measurement, anechoic chamber, and RF test equipment.

- Strong problem-solving abilities.
- Substantial ability to effectively present ideas in a team.

Essential Attributes:

- Excellent written and oral communication skills
- Excellent interpersonal skills
- Exceptionally self-motivated and directed
- Ability to prioritize, schedule, and execute activities to efficiently accomplish tasks
- Ability to multitask and manage more than one project at the time

Salary: Exceptional compensation package (£35k - £120k per annum depends on experience), including competitive salary, share options, pension and bonus.

Location: NVC has its current R&D headquarters in Birmingham; NVC is also considering opening an office in London.

Closing Date: 29/02/2024; **Number of Positions:** 5; **Experience** – 3 year minimum

To apply for this position please send your CV with a covering letter explaining how do you meet selection the criteria to: HRUK@novocomms.com. You will only hear from us if you have been shortlisted.

About the Company

Novocomms Limited (NVC) was founded to deliver innovative new technology coming from British academia in the field of antenna design. The team have designed, developed and patented a pioneering antenna technology. The market for this highly scalable technology is the global digital wireless appliance market. NVC's remarkable innovation has led to the creation of a significant number of patent applications, both filed and in process.