



TUSK IC

Senior RF/mmWave ASIC designer

Work environment

Tusk IC is a fabless millimeter wave (mmWave) IC design company, located in Antwerp, Belgium. Founded in 2018 as a spin-off from the KU Leuven, it is a growing start-up at the leading edge of mmWave technology. We have an international team and value collaboration, clear communication and technical excellence.

With 5G, 60GHz communication, imaging and self-driving cars all relying on mmWave to break through, Tusk IC provides state-of-the-art design solutions for integrated circuits from 3GHz to 300GHz and beyond in CMOS and SiGe technologies. Tusk IC is also developing their own product for satellite communications.

Come join us and surf the mmWaves!

Position description

As senior RF/mmWave ASIC designer, your focus will be to strengthen and complement our existing team of designers. You will play an important role in our satcom product development, helping with the chip definition, block and top-level design, and thorough design review. Next to this, you will work on R&D and implementation of state-of-the-art ASICs for the next generation of mmWave products, including feasibility study, design, layout, simulation, package design and measurement.

You will become a core member of our team, with a large influence on technical decisions. Clear communication during team and client interactions is essential. Our clients are leading companies in Satcom, 5G, imaging and automotive domains.

What will be your responsibilities and challenges?

- Spec definition and system-level design of RF/mmWave modules and components
- Circuit design, layout and verification of RF/mmWave building blocks
- 2D and 3D EM simulations for interconnect, passives and packages
- Assist in measurement preparations
- Clear and concise reporting, interaction with customers
- Come up with creative solutions to new problems

Your required competences and qualifications

- BSc (Hons) or higher degree (MSc/PhD) in electrical engineering with a focus on analog, RF and mmWave ASIC design
- **5+ years of transistor-level RF/mmWave IC design experience in advanced CMOS, SOI and/or SiGe**

- **Experience with design for production (PVT variation, electromigration, aging, DFM) and full design cycle: specs to measured silicon**
- Knowledge and experience with leading IC design tools: Cadence, ADS, Synopsys or Mentor
- Experience in transistor-level layout extraction and verification (PEX), DRC and LVS
- Electromagnetic modelling of high-frequency circuits + relevant EDA tools (e.g. Momentum, EMX, HFSS, CST, ...)
- Extensive lab experience
- Proficient in a scientific scripting or programming language (e.g. Matlab, Python)
- Eager to learn and willingness to adopt new tools and design techniques
- Clear communication skills
- Fluent in English (written and spoken)

What we offer

- Dynamic and exciting start-up environment!
- Hybrid working with up to 3 days remote work
- Art-Nouveau office in Antwerp, conveniently located close to Berchem and Central train station.
- Contribute to revolutionary products such as satellite communication, automotive radar, 5G and mmWave sensors
- Incredible colleagues to learn from and have fun with
- Gourmet coffee, carefully selected by our coffee aficionados

Contact information:

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www.tusk-ic.com