



## RF/mmW MMIC system and R&D engineer at Lytid

### Presentation:

Lytid develops and commercializes advanced terahertz technologies for science and industry. One of Lytid's core technology is the quantum cascade laser, which is an electrically pumped semiconductor laser emitted directly terahertz radiation in the range of 2 to 5THz. The second core technology are electronic multiplied sources based on planar GaAs Schottky diodes for the sub-THz range (0.1-0.6THz). Applications range from medical imaging, NDT for industry 4.0, industrial sensing or ultra-broadband telecommunications. The startup was founded in 2015 and received a Prism Award for Photonics Innovation at the Photonics West show in San Francisco in 2016 for its first product, TeraCascade. In the scope of its growth and new product developments, Lytid is looking to hire an engineer specialized in:

### RF and millimeter waves systems

The position is for a design engineer responsible for the development of innovative, cutting-edge GaN and GaAs-based RF/Millimeter-waves products supporting Lytid's business growth objectives. This will involve design and development of MMIC-based RF/Millimeter-waves products using advanced GaN and/or GaAs technologies. You will be in charge of the integrated product development including program management, product engineering, and test engineering. Furthermore, in close collaboration with applications engineering and mechanical engineering, you will accompany Lytid's vertical growth plan toward integrated industrial systems.

### Responsibilities:

- Technical lead role for MMIC-based product development
- Guide product development through critical stages including concept/feasibility, development, preproduction, qualification, and production
- RF circuit design using linear and nonlinear models and 2.5D and 3D electromagnetic simulators
- RF test board design, test and characterization, and data analysis

### Qualifications :

- Required design experience: RF/Millimeter-wave power amplifier, multipliers, switch, low noise amplifier or attenuator MMICs and/or hybrid-based components and multi-chip modules
- Specific experience in advanced compound semiconductor technology such as GaN and/or GaAs required
- Proficient using microwave and EM simulation tools such as ADS, HFSS or Comsol

- Expert understanding of microwave measurements and calibration methods: S-parameters, power, efficiency, source/load pull, noise figure, linearity and intermodulation distortion
- Strong written and oral communication skills, with the ability to summarize concisely highly technical concepts and propose major design recommendations
- Experience level: MSEE with >5 year's experience, or PhD with RF/Millimeter-waves device, circuit or system design plus 2 year's experience

#### Collaborations:

- ENS Paris, Ecole Normale Supérieure de Paris, LPA Laboratoire Pierre Aigrain, Quantum Well Infrared Photodetector
- MPQ Lab Matériaux et Phénomènes Quantiques, Paris Diderot 7, quantum cascade laser technology
- LERMA Lab, Observatoire de Paris, GaAs planar terahertz Schottky diodes multipliers

Please send your application to : [jobs@lytid.com](mailto:jobs@lytid.com).

Job location: Paris area, France