



Optical Communications Research Engineer at Georgia Electronic Design Center, Georgia Tech

The Georgia Electronic Design Center (GEDC), a research center of the Georgia Institute of Technology, is seeking candidates for a Research Engineer position in optical communications. The (GEDC) is a cross-disciplinary industry focused center with primary efforts on the development of high capacity photonic and electronic devices and systems.

The candidate is expected to have a strong theoretical and experimental understanding of optical communications both at device and system level. A good understanding of digital signal processing is expected. Experience in RF design is beneficial. The ideal candidate will have several of the following skills:

- a. Experience designing, taping out and characterizing integrated photonic devices and systems
- b. Experience with optical simulation, layout software, Cadence and ADS
- c. Prior experience with DSP applied to photonic systems
- d. Prior experience with a variety of machine learning techniques applied to photonics systems
- e. Experience with both long haul and short reach optical links

In addition to the candidates from photonics background, other candidates having a telecommunication or wireless communication or digital signal processing background are encouraged to apply. Candidates with a doctoral degree and doctoral students who will graduate in a few months are encouraged to apply. In the past, this position has supported a green card application. The position will support an NSF center on integrated photonics EPICA <https://epica.research.gatech.edu/>. Research Engineers will assist in the daily supervision of graduate students. They will participate in the definition of research objectives, work directly with industry sponsors, support proposal preparation and will be responsible for the laboratory and testbeds. Candidates must have a good publication record. The position entails more responsibility and autonomy than a traditional postdoctoral position with an expected duration of 3+ years. The position prepares candidates for both industry and academic positions. Salary will be commensurate with experience.

The GEDC is equipped with state-of-the-art equipment, software, testbeds, and computational resources. The GEDC is a multidisciplinary research center comprising 14 faculty members and more than 120 researchers (students, post-doctoral fellows, and research scientists). The position is offered by the Georgia Institute of Technology within the Georgia Electronic Design Center on the campus of GaTech Atlanta Georgia.

Please send your resume to Prof. Stephen Ralph (stephen.ralph@ece.gatech.edu) and apply using the link below.

<https://bit.ly/3lY5vdX>