



Cambium Networks

PMP Systems Engineer

Bengaluru, India

Department Description

This opening is for the new R&D center in Bangalore INDIA.

Cambium Networks provides professional grade fixed wireless broadband and microwave solutions for customers around the world. Our solutions are deployed in thousands of networks in over 153 countries, with our innovative technologies providing reliable, secure, cost-effective connectivity that's easy to deploy and proven to deliver outstanding metrics.

Cambium Networks develops point to multipoint and point to point RF solutions in both unlicensed and licensed bands. Customers include tier 2 and 3 telephony operators, wireless internet service providers, enterprises such as utilities, and federal, state, and local governments. Technologies include 802.11, 802.16e and Canopy (proprietary).

Scope of Responsibilities/Expectations

- The successful candidate will join a small team developing Cambium's highly-regarded LINKPlanner propagation and network planning tool. We're looking for an experienced System Engineer with most, if not all, of the following capabilities and experience:
- Experienced developer of digital wireless communication products or propagation planning tools, either as a systems or software engineer. We're looking for people who have developed products as part of a development team, and in this role we're not so much interested in people whose experience is in designing customer's networks using existing planning tools and methods.
- A good knowledge of the fundamentals of wireless propagation and the algorithms used to predict the availability of fixed PTP and PMP links, including the relative impact of tropospheric fading and rain fading.
- Understanding of typical link configurations and base station configurations used in PTP and PMP wireless networks, and how these configurations affect availability.
- Familiarity with commercially-available link planning tools
- Ability to design effective user interfaces; it's really important that LINKPlanner remains accessible to non-expert users.
- Ability to analyse complex systems, reason wisely, and express him/herself concisely and accurately in speech and in writing. The systems team provide detailed requirement specifications that form the basis of software development. Some software developers will not be wireless experts, and the systems team must capture required behaviour in language that software engineers understand.
- Keen attention to detail; the LINKPlanner contains information about a large number of product variants and accessories, and it's important that we always select the correct products for a particular link or sector. Customers will order products based on the bill of materials generated within LINKPlanner and it will be a real problem for our customers if we make an error.