**Physicist**

T2Sys is looking for a well-qualified physicist for a research position at our company. Responsibilities of the position include engaging in cutting edge research in the fields of ionospheric plasma physics with regards to long distance communications, programming and running plasma physics simulation codes, writing proposals for future research, working with other scientists on various projects, and interacting with our government customers. Candidates must have at a minimum a master degree with a strong background in plasma physics or a physics PhD in a related subfield, be US citizens, and be willing to undergo a background check.

Specific Job Description:

* Define/Perform basic & applied research studies relating to the theory, simulation, and experimentation of HF, VHF, UHF and higher frequency sensor signal interaction with plasma.
* Develop theoretical and simulation models for active space experiments in the ionospheric plasma, including beam-plasma and laser-plasma interactions.
* Investigates excitation of electromagnetic waves by antennas in magnetized plasmas and explores their application to ionospheric modification experiments.
* Maintain expertise in the area of plasma and ionospheric technology to apply in sensors, communication links, and navigation utilizing the current and new develop theory, modeling & simulation, and experimentation.
* Determine the appropriate application and selection of mitigation techniques of plasma effects produced by hypersonic platforms for sensor and communication signal enhancement based on own authoritative knowledge of the field.

Candidates with skills and experience in the following areas are preferred:

* Ability to code in C++
* Able to use visualization and processing software such as IDL and Matlab
* Experience programming plasma simulation codes, preferably MHD or related type codes
* Strong communication skills and the ability to manage multiple projects
* Experience modeling real world physical environments
* Basic knowledge of Linux operating systems

Education Requirement:

* Master or PhD In Physics / Aerospace or Electrical Engineering