

**SERVICES**

Strategic Planning/Visioning  
Master Planning  
Building Systems Integration  
Implementation Oversight  
Project Management

**SYSTEMS**

Audiovisual  
Cabling Infrastructure  
Network  
Public Safety  
Security  
Voice  
Wireless

**STRUCTURED CABLING DESIGN ENGINEER**

Responsible for the design and development of multi-discipline structured cabling packages including document development and coordination with other trades. Producing structured cabling designs following construction industry processes including space requirements, SD, DD, CD deliverables and Specifications. The ideal candidate will have experience with the full lifecycle of project including proposal development to capturing and managing requirements; production of design narratives and conceptual system architecture; development of detail system designs, through production of system test & commissioning documents. The candidate must also be very familiar with producing structured system designs as part of the traditional construction industry project delivery process including space programming, schematic design, detail design, construction documents, and contract administration. The ideal candidate will also have experience developing solutions for integrating structured systems into diverse building architectural designs and with other technology systems such as audiovisual, security, networks, cabling infrastructures, etc. The candidate should also have experience managing the project procurement process including submittals, change orders, bid evaluation, responding to RFIs, conducting site surveys & construction progress visits to verify proper installation of the Structured Cabling infrastructure, and performing on site system verification & commissioning to ensure that the installed system complies with the system design and clients' expectations.

**Primary Responsibilities include:**

- Act as the Sr. TCG engineer/design consultant and primary point of contact to clients requiring Structured Cabling System design solutions including: room sizing and placement, electrical provisioning, system drawings, power & heat load calculations, structured cabling system narrative specifications and equipment lists
- Function as the Project Manager responsible for scope, schedule and budget management on structured cabling system projects
- Lead and manage the development of structured cabling system contract documents required for bidding, awarding and installation of entire Structured Cabling System solutions.
- Interface and collaborate with internal technology staff and appropriate vendors to define and deliver a complete end to end solution that incorporates all aspects of the projects vision.
- Manage project deliverables and resource allocation to meet deadlines without sacrificing quality.
- Assist with the production, management and maintenance of structured cabling system standards and specifications
- Research, conceptualize and implement, new and innovative solutions that push the boundaries of Structured Cabling Systems solutions to deliver cutting-edge / future-enabled facilities.
- Develop design/construction documents; technology project budgets, level proposals, coordinate with systems vendors, monitor and inspect work performed

**Required Skills:**

- Capacity to listen to clients express their business requirements and translate those requirements into a compliant structured cabling system design solution that meets expectations
- Highly developed organizational skills, attention to detail, and ability to handle multiple tasks concurrently
- Excellent computer skills including proficiency in AutoCAD, MS Project, MS Office Suites

- Extensive experience in OSP fiber optic information systems (structured cabling systems for voice, data, video using fiber) creating ISP & OSP fiber optic cabling and pathway systems construction specifications including materials, installation, termination, grounding and testing.
- Knowledge of industry standards and codes (BICSI, NEC, EIA/TIA, NFPA, OSI)
- CAD or GIS software
- Data and voice networking
- Familiarity with various manufacturers' products
- Familiarity and experience with coordinating various interface protocols and emerging standards
- Excellent writing, editing and communication abilities
- Professional demeanor and appearance at all times, especially when interacting with clients and employees
- Professional and positive attitude in a fast paced and occasionally high-pressure environment
- Ability to effectively present information and respond to questions from individuals at all levels
- Ability to build and maintain rapport with all levels of staff, clients and vendors
- Impeccable phone etiquette, enthusiastic personality and positive team player mentality

### **Education Required**

BS/MS in an Engineering or Engineering Technology Discipline or equivalent on-the-job experience  
 10+ years of experience in design environment as an individual contributor or team lead  
 BICSI RCDD Certification or ability to qualify and obtain one a plus