CYBERSECURITY/NETWORK ARCHITECT

POSITION OVERVIEW:
The Cybersecurity/Network Architect position is both an Engineer and Architect with broad knowledge of information security / information assurance but specializing in SCADA, networked systems, and associated command & control of devices connected to our microgrids and related systems. This is a hands-on position.

PRINCIPAL DUTIES AND RESPONSIBILITIES (ESSENTIAL FUNCTIONS):
The cybersecurity/network architect will be responsible for a broad swath of duties and responsibilities including

- Architecting, designing, developing, integrating, and testing cybersecure network architectures for SCADA, automation software, and other networked systems
- Securing both data and electrical infrastructures
- Securely configuring equipment and software with communications industry standards such as DNP3, ZigBee, Z-Wave, Modbus, OPC, BACnet, OpenADR, Wi-Fi, 4G, etc.
- Ensuring the smooth operation of the corporate network as well as microgrid networks
- Developing, documenting, and coordinating our cybersecurity posture
- Designing and implementing our corporate IT infrastructure backbone while integrating a variety of devices including Linux, Windows, Mac OSX, and Chromebook.
- Developing and executing our Business Continuity/Disaster Recovery processes
- Other duties as needed or required:
  - Research & Development
  - Authoring and publishing whitepapers
  - Assisting Marketing & Sales

SUPERVISION RECEIVED:
The cybersecurity architect reports to the Director of Information Engineering.

SUPERVISION EXERCISED:
None at this point.

QUALIFICATIONS & SKILLS:
REQUIRED
The position requires a Bachelor's degree in mathematics, science, or engineering and five years of relevant experience.

The position requires minimal travel, typically not exceeding 5% of the time, though this will depend on projects at hand. (Trips within San Diego and surrounding cities/counties are not considered travel.)

Qualifications and Skills include experience with the following

- Network/Systems Administration
- Networking, Automation, & SCADA Protocols: IP protocols, DNP3, Z-Wave, Modbus, BACnet, OpenADR, WiFi, 4G, etc.
- DIACAP, NERC CIP, Risk Management Framework, or other NIST-based policy frameworks
- Virtualization architectures using Hyper-V, VMWare, etc.
- Ability to design and support IT infrastructure on a multiple operating systems and hardware platforms.
- Firewall policy architecture
- 8500.2 Controls
- FIPS
- Miscellany
  - Able to fix all kinds of technical problems
  - Willing to get “down and dirty,” hooking up servers, electrical equipment, wiring, testing, etc.
- Quick learner
- Has innovative ideas
- A passion to make a difference in the world!

PREFERRED
In addition to the required qualifications and skills above, preferred qualifications include:

- An additional five years of relevant experience
- Professional licensures, certifications, and accreditations including CISSP
- Experience in clean energy, microgrid, and smart grid arena
- Experience in agile methods, including scrum, extreme programming, test driven development
- Systems Engineering
  - Requirements elicitation and management
  - Integration
  - Testing
  - Modeling with UML/SysML/UPDM
- Software Engineering practices, especially as relates to cybersecurity

ABOUT CLEANSPARK LLC
CleanSpark brings clean, sustainable energy solutions to institutional, commercial, industrial, and residential customers by providing integration, installation, and operation/ & maintenance (O&M) services with preferred technology partners and platforms. Through CleanSpark's flagship clean energy platform, the Flex Power System™, CleanSpark offers an innovative solution that delivers energy security at a price at or below the current price of electrical energy for period of 25 years and beyond.