ANNABELLE LEE

Chief Cyber Security Specialist
Nevermore Security

Annabelle is the Chief Cyber Security Specialist of Nevermore Security, a consulting firm that she started in the fall of 2017. Annabelle founded Nevermore Security to help energy companies combat the risks of cyber security vulnerabilities and threats. She focuses on cyber security in applied research, development, and implementation in the electric sector.

Her areas of expertise include cyber security:

- **Strategy**
- **Risk management and risk assessment**
- **Design and architecture**
- **Specification, guidance, and requirements development**
- **Assessments against standards, including the cybersecurity capability maturity model (C2M2)**
- **Training**
- **Applied cryptography**

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Her experience comprises 30 years of technical experience in information technology (IT) system design and implementation, 15 years in operational technology (OT) cyber security for the electric sector, and over 30 years of cyber security design, specification development, and testing. Over her career she has authored or co-authored many documents on cyber security, cryptography, and testing. She began her career in private industry concentrating on IT systems specification, software testing, and quality assurance.

Annabelle provides cyber security technical guidance to utilities around the world, particularly in North America and the Black Sea and Balkan regions. Her work has included the development of a Cyber Security Strategy and Roadmap template and a Risk Management and Assessment Methodology template for the Black Sea and Balkan utilities. Annabelle has conducted C2M2 assessments to define the baseline and target cyber security profiles for utilities to assist them in developing plans for addressing current and potential cyber security threats. She has led the assessment of cyber security technical controls, standards and guidelines, and procedures for utilities. The objectives are to assess cyber security risk, define the attack surface/vectors, and select mitigation strategies.

Annabelle participates as a member of the Scientific Advisory Committee for two of the US Department of Energy (DOE) laboratories: Oak Ridge National Laboratory (ORNL) and National Renewable Energy Laboratory (NREL). The primary functions of the committees are to provide advice on the strategic and scientific direction for both short and long-term goals. The committee members are from varying technical fields, and Annabelle participates as an expert in cyber security. Annabelle also serves on the Advisory Committee for the North American Energy Standards Board (NAESB) and she participates on IEEE standards committees. Annabelle participates in several DOE research projects, including the development and revision of the C2M2.

Previously, Annabelle worked at the Electric Power Research Institute (EPRI) as a Principal Technical Executive. Annabelle provided technical oversight to the various projects within the Cyber Security Program at EPRI. Her technical focus areas were applied cryptography, security architecture, and cyber security risk management. Annabelle was the Program Manager for the National Electric Sector Cybersecurity Organization Resource (NESCOR), a DOE funded public-private partnership. Annabelle led a team that developed cyber security failure scenarios for the electric sector. Utilities, vendors, and researchers are using these worldwide as they address potential cyber security events.

Annabelle participated in the Energy Expert Cyber Security Platform Experts Group (EECSP-EG) that advised the European Commission (EC) on cyber security for the energy sector. The EECSP-EG provided guidance to the EC on policy and regulatory directions at European level. Annabelle was the only representative from the US on the 14-member team.

Previously, Annabelle was a Senior Cyber Security Strategist at the US National Institute of Standards and Technology (NIST). Annabelle was the lead of the Cyber Security Working Group (CSWG) that developed the NIST Interagency Report (NISTIR) 7628, Guidelines for Smart Grid Cyber Security. This was the first document to focus on the electric sector and includes a security architecture, security requirements, privacy requirements, and technical analyses of cyber security issues for the electric sector.