

# GALE E. HAUCK

Knoxville, Tennessee, USA  
+1 518 928 2808  
hauckge@ornl.gov

**SUMMARY** Leadership experience for 20+ years in career and avocational areas of interest  
Led more than 30 international teams and projects within the nuclear power/engineering field  
Engaged and effective communicator with people of other cultures / non-native English speakers  
Advanced study of nuclear science, innovation, and geopolitical interfaces

**EDUCATION**

|  |                            |
|--|----------------------------|
| <b>University of Tennessee</b>   | <b>Knoxville, TN</b>       |
| <i>PhD Energy Science and Engineering</i>  | <i>Expected 2028</i>       |
| <b>Pennsylvania State University</b>   | <b>University Park, PA</b> |
| <i>Master of Business Administration (GPA: 4.00/4.00)</i>                                    | <i>August 2021</i>         |
| <i>Graduate Certificate, Corporate Innovation and Entrepreneurship (GPA: 4.00/4.00)</i>      | <i>December 2020</i>       |
| <i>Master of Engineering in Nuclear Engineering (GPA: 3.71/4.00)</i>                         | <i>May 2011</i>            |
| <b>Rensselaer Polytechnic Institute</b>  | <b>Troy, NY</b>            |
| <i>Bachelor of Science in Nuclear Engineering &amp; Engineering Physics (GPA: 3.12/4.00)</i> | <i>May 2004</i>            |

**PUBLICATIONS** “Characterization of Potential Construction Schedules for Advanced Reactors”, July 2021  
“Characterization of Safeguards Implementation Schedules for Advanced Reactors”, August 2021  
“Gap Analysis of Advanced Reactor Construction and Safeguards Implementation”, September 2021  
“Nuclear News Asks: Working in the UAE”, Nuclear News, July 2020  
“Trust and Confidence through Quality”, Nuclear Plant Journal, Jan/Feb 2015  
“From the 2013 Young Professionals Congress – On Reluctant Leadership”, ANS Nuclear Cafe 2013  
“Evolution of the Global Nuclear Landscape & Development of the Generation III (+) Reactors” 2011

**EXPERIENCE**

**Nonprofit / Volunteer Leadership**

|   |                       |
|---|-----------------------|
| <i>President of the Board, Girl Scouts Heart of the Hudson</i>                        | <i>2022 - Present</i> |
| <i>Founder and Chairman, United Arab Emirates Section of American Nuclear Society</i> | <i>2018 - 2021</i>    |
| <i>Founder and Head Coach, UAE Roller Derby National Team</i>                         | <i>2018 - 2021</i>    |
| <i>Chairman, Operations &amp; Power Division of American Nuclear Society</i>          | <i>2018 - 2019</i>    |
| <i>Director at Large, American Nuclear Society Board of Directors</i>                 | <i>2014 - 2017</i>    |

**Oak Ridge National Laboratory** **Oak Ridge, TN**  
*Senior R&D Staff, Innovative Nuclear Reactors* *5/2021 - Present*

- Provide scientific leadership to strategically advance the design, construction, deployment, and operation of innovative nuclear power plants
- Serve as Principal Investigator to pursue innovative ideas to reduce the barriers to deployment
- Develop and execute high impact R&D programs, interfacing with project sponsors, operations, and external collaborators

**The Pennsylvania State University** **University Park, PA**  
*Adjunct Faculty* *8/2021 - Present*

- Lead and support courses including Team Performance, with a focus on student engagement
- Support course redesign projects to align objectives with the latest learning models
- Provide feedback for student development and improvement

**Westinghouse Electric Company** **Abu Dhabi, UAE**  
*Deputy Site Manager / Process Improvement Manager, Barakah Plant* *1/2018 – 5/2021*

- Completed process improvement project to reduce delays in issuing stakeholder documents by 35%, including process mapping, analysis, and procedure updates
- Supported fuel load and plant startup by driving all open items within area of responsibility to closure at least 60 days prior to projected license approval date
- Streamlined training requirements to simplify onboarding process and led self-assessment to ensure compliance; result was 100% compliance at end of week-long assessment

**Westinghouse Electric Company***Toshiba Exchange Program Engineer***Tokyo, Japan**

10/2016 - 4/2017

- Studied Japanese regulations, business practices, processes, culture, and language
- Completed benchmark study of Severe Accident analysis using MAAP4 and MAAP5 codes; provided analysis context based on current Japanese regulations

**Westinghouse Electric Company***Principal Quality Engineer***Pittsburgh, PA**

4/2014 - 10/2016, 4/2017 - 12/2017

- Led 26 assessment teams with analysis of U.S. and international nuclear / quality codes and standards; frequent international travel to Europe and Asia
- Identified opportunities for performance improvements through more than 50 internal and external quality assessments, safety reviews, peer reviews, self-assessments
- Resolved significant quality issues and implemented performance improvements

*Product Manager / Marketing Engineer*

1/2012 - 4/2014

- Managed strategic and business planning for engineering product lines including: customer training, nuclear spent fuel criticality (>\$2M revenue per year)
- Planned international industry conference events including technical program elements, such as Westinghouse Technology Week and ANS TopFuel with 100 - 200 attendees per event
- Drove revenue on customer accounts by leading account team meetings and generating offers

*Functional Lead of Engineering Projects / Engineering Project Manager*

1/2008 - 12/2011

- Managed customer relationships as the single point of contact for nuclear utilities in the U.S., Asia, and South America; executed contracts, provided engineering services, and resolved contractual and technical issues for customers
- Led development programs, provided team leadership and mentoring for 10+ group members
- Provided project leadership and oversight in planning, execution, monitoring, control, and delivery of technical products and services; coordinated diverse teams throughout multiple organizations – interfaced with 30+ engineering resources at a given time
- Planned and coordinated first-time implementation of the Engineering Project Manager (EPM-01) qualification; implemented an oral board process, coordinated and ran the first 4 oral boards

**Entergy Nuclear***Reactor Engineer***Buchanan, NY**

6/2004 - 1/2008

- Directed plant startup physics testing program for post-refueling startups; provided engineering support for 10+ refueling and mid-cycle plant startups and power ascensions
- Supervised special projects including boraflex degradation testing and fuel gamma scanning
- Led internal audits at Indian Point and Waterford 3; wrote/reviewed Engineering procedures
- Managed Reactor Engineering activities during 6 refueling outages, including fuel/control rod moves and inspection, plant instrumentation calibration, and startup testing
- Directed on-time new fuel receipt campaigns; coordinated with Operations & Maintenance crews
- Created and presented training for operator license requalification; provided training and support
- Supported licensing submittals for plant configuration changes using the 10CFR50.59 process

**Fluor Hanford***Engineer***Richland, WA**

5/2003 - 8/2003

- Developed a correlation between above-ground area surveillance and volumetric laboratory results; issued white paper documenting results
- Completed rotations at the nuclear and radiological facilities including instrumentation and calibration laboratories, ALARA Center of Technology, and spent nuclear fuel pools

**SKILLS**

Qualified Nuclear Quality Audit Team Lead, Nuclear Quality Assurance Standards and ISO Requirements, Presentation Skills / Trainer, Toastmasters Advanced Communicator Silver/Advanced Leader Bronze, international customer interface, Project Management, Risk Assessment, Design Basis Accidents and Simulator Training, licensing, nonprofit administration

**Languages:** Fluent in English; basic French, Arabic, Japanese; limited study of Spanish, Swedish