Summary

Bill Hosken is the director, analytics and data science at ScottMadden with experience in data analytics and modeling, cloud computing, organizational performance improvement, process automation, new organization startup, and project management. Since joining ScottMadden in 2013, Bill has worked in a diverse set of industries, including nuclear power, electric transmission and distribution, green building, consumer data, and healthcare. Prior to joining the firm, he worked as budget and policy manager for the city of Atlanta's office of sustainability. He received an M.B.A., with honors, from Emory University's Goizueta Business School with concentrations in finance and strategy. He earned a bachelor of commerce with distinction from Trinity College at the University of Toronto, where he double majored in strategy and economics. He previously held AWS Security Specialty and Solutions Architect Associate certifications and is also conversant in French.

Areas of Specialization

- Analytics and Data Science
- Program and Project Management
- Digital Tools and Statistical Analysis
- Intelligent Automation
- Utility Operations and Technology

Recent Assignments

- Designed, developed, and deployed a suite of tools for a vertically-integrated utility to enhance supply chain visibility into demand for material to underpin a strategic review of long-term facility needs, which included item-level statistical modeling of demand across 10,000+ unique parts and rack-level facility storage spatial modeling
- Designed, configured, and deployed an enterprise project portfolio management solution built on Project Online, Power BI, SharePoint, and Power Automate for a public power entity to centralize all project management activity and reporting, including budgeting, forecasting, project health, variance analysis, resource loading, and risk analysis; the solution underpinned management of a $10 billion investment program from the U.S. federal government
- Designed, configured, and deployed an HR transformation project portfolio management solution built on Project Online and Power BI for a leading biotechnology firm to visualize the sequencing of projects, resource requirements, and the timing of impacts to business units, employees, and functions
- Designed a simulation model for a public power entity to assist with decision-making to optimize sequencing with a project portfolio, including more than 300 projects while accounting for operational conflicts and monthly cash flows
- Developed a probabilistic statistical model in R identifying the main drivers of, and their relative influence on first year turnover among registered nurses at a major healthcare network
- Developed a power system data visualization solution in Power BI for a southeastern investor-owned utility through the compilation and transformation of various operational, customer, and weather data sets to enable dynamic analysis leading to a reduction in reliability engineer issue research time by more than 99%
- Designed and built a workflow to support the recovery of millions of dollars in tariff payments for a major electronics wholesaler with automated data extraction and structuring from pdf packages of customs forms and invoices using Python, AWS Textract, and R
- Designed a 15-year labor demand model for a public power entity to identify potential labor shortages across 30 craft labor categories and enterprise-wide activity (i.e., online, outage, new build, decommissioning, and projects) enabling the visualization of demand peaks and scenario analysis
- Developed and implemented performance metrics and dashboards aligned to the strategy of the HR group of a leading U.S. healthcare provider
- Deployed an HR data visualization solution in Power BI for a major healthcare network that combined demographic, turnover, performance ratings, employee engagement survey results, and patient scores to provide a comprehensive view of the status of personnel across every department and available timeframe
- Provided advisory support around project scope, resources, system-level requirements, and budget for the launch of a $130 million IT transformation program of a leading U.S. independent system operator that included the replacement of a monolithic market system, subject to NERC Bulk Electric System CIP regulation, with a modular system architecture and a transition to a cloud-based infrastructure; instituted project management standards for the workstreams, oversaw and supported plan execution as part of the PMO, and led the process of defining the baseline system-level requirements