

Technology's Impact on Talent

“AI is the new electricity,” – Andrew Ng, co-founder of Google Brain and Artificial Intelligence pioneer.

AI is the fastest growing and evolving technology segment and, at this time, probably the least understood. AI's untapped potential may finally start to be realized in the explosion of data — AI requires access to huge amounts of data — and recent advances in cloud computing. Like electricity, AI has the potential to change everything and it's creating a new role sort for CIOs and other technology leadership roles, including a new one: chief AI officer.

According to Ng, successful deployment of AI requires a keen understanding of how the organization works to understand how and where to apply it. Generally speaking, it works best where human interaction adds value and, at the same time, creates large amounts of data. AI needs data and data types, *that must integrated* in order to be able to find patterns. AI must be applied *across* silos. Most importantly, AI must be part of the organization's overall strategy.

Creating the right environment for digital transformation involves the coordination of multiple technologies. The complexities of each create a need for multiple, new leadership roles with a dedicated focus and very specific technical expertise. In addition to Chief AI Officer, they include **Chief Data, Chief Innovation, Chief Digital Officer** and blended roles, **Digital, Data, Innovation and Analytics**, and because the cloud is the foundation for digital, **Cloud Architect** has emerged. According to Gartner, analyst Kyle Hilgendorf's 2016 report “[Analyzing the Role and Skills of the Cloud Architect](#),” the role is now mandatory and critical within IT organizations.

Finally, both **CMIO** and **CNIO** roles are expected to continue to gain in influence and importance. About 14% of hospitals have CNIOs – which will increase as the number of seniors rising. Emerging roles work best as a well orchestrated team — not in silos.