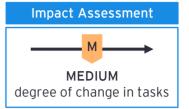
7.2.1 Job Dashboards

Executive Summary

Architectural Executive

Megatrends impacting the Job Role in Short to Medium-Term COVID-19 Multi-Skilling Value Chain Workforce Sustainable Construction/ Challenges Aggregation & Buildings Integration

Technology Trends impacting the Job Role in Short to Medium-Term							
BIM Technology	Data Analytics & Al	Digital Twin	Remote Monitoring				
VR/AR	5G, IoT & Smart Buildings	Modular Construction					







In the Future

This job role is responsible for reviewing data during the feasibility and design phases. Job holders are involved in developing computational models, provide advice on procurement methods, and propose opportunities for improvement and adoption of the latest industry trends.

This job role may be expected to be increasingly proficient in review and application of data in feasibility and design phases, with capabilities in computational model developments, and facilitate collaboration across the value chain with increased aggregation and integration. Job holders may need to keep abreast of evolving trends and technologies so as to advise on procurement methods and continue proposing opportunities for use and adoption in architectural services.

Studies

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon	
Analyse design database and documentation for feasibility and design phase	М	 Job holders will continue to develop computational designs using digital tools and platforms, and may need to upskill with relevant industry knowledge and skills to accurately incorporate potential impact into designs. Job holders may leverage digital tools and platforms (e.g., BIM Technology) to develop complex computational models. Job holders may also leverage knowledge of trends and technologies in 	Short- term	
		providing inputs and alternatives of construction and build materials (e.g., impact of modular construction).		
Conduct documentation and tendering	L	 Building contracts may move towards smart contracts (enabled by technology e.g., Blockchain), and job holders will need to acquire an understanding and capabilities to advise on appropriate procurement methods and selection of building contracts, administration of any smart contract, and management of data associated. 	Long- term	
	М	▶ Job holders may need to validate the analysis of performance of buildings against computational designs in response to trends (e.g., environmental performance) through digital tools and platforms used in computational analysis.	Short- term	



Executive Summary

verview of the Studv npact of Industry Transformation Jobs and Skill Overview Global Case Studies Recommendations

Appendix

7.2.1 Job Dashboards

Architectural Executive

Job Tasks Today	lm	Impact at Task-level / Future view of Job Tasks		
Manage people and organisational functions	L	 Job holders will continue to perform people management tasks (i.e., on-the- job coaching, lead teams), and may see greater emphasis on managing compliance of project delivery outcomes and maintenance of ethical business practices with changing regulatory requirements. 	Short- term	
	М	 Digital tools and platforms may be leveraged to manage effective and efficient communication among project teams and other stakeholders. 	Short- term	
Propose continuous improvement initiatives	as to propose relevant opportunities for use and improvements to		Short- term	

The following TSCs have been identified as in-demand/emerging for the job role going forward:

In-demand Technical Skills and Competencies							
Biophilic Design in Built Environment	Building Information Modelling Application	Computational Design					
Critical Thinking	Design for Maintainability	Design for Manufacturing and Assembly					
Integrated Digital Delivery Application	Project Risk Management	Regulatory Submission and Clearance					
Stakeholder Management	Technology Application						
Emerging Technical Skills and Competencies							
esign Sustainability and Ethics lanagement Programming and Coding							



