

7.2.1 Job Dashboards

Senior Architectural Executive


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

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

M

MEDIUM

degree of change in tasks

Today

This job role is responsible for reviewing and validating data in the feasibility and design phases. Job holders also review designs, contract administration, and procurement methods, as well as keep abreast of industry trends to implement opportunities for continuous improvement initiatives.

In the Future

This job role may be expected to be increasingly proficient in use of digital tools and platforms in delivering clients' designs, and in data review and validation. Job holders may need to keep abreast and up to date with evolving trends and technologies so as to be able to establish procurement methods and drive improvement opportunities in architectural services.

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Validate design database and documentation for feasibility and design phase	M	<ul style="list-style-type: none">Job holders will continue to perform review and validation of designs, design databases, documentation and use of materials, leveraging digital tools and platforms.Job holders will need to be aware of the impact of new materials and designs to validate the use of them in line with direction of industry transformation and goals (i.e., adoption of modular construction, use of sustainable materials).Job holders will also be expected to possess relevant knowledge of regulations, so as to continue ensuring reviewed designs for clients are in compliance with authorities' requirements.	Short-term
Review documentation and tendering	L	<ul style="list-style-type: none">Job holders may need to understand smart contracting technologies (e.g., Blockchain) to review contract administration, procurement methods and selection of building contracts.	Long-term
	M	<ul style="list-style-type: none">Job holders will need capabilities in utilising digital tools and platforms to perform performance evaluation of buildings against parametric designs.	Short-term

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Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Manage people and organisational functions	L	<ul style="list-style-type: none">Digital communication tools may augment the collaboration process, with job holders possessing an understanding and application of digital tools and platforms to effectively drive coordination across project teams and other relevant parties.Job holders will need to continuously keep up to date with skills in-demand and apply the knowledge to identifying technical and business recruitment, training and development needs for the organisation.	Short-term
Implement continuous improvement initiatives	M	<ul style="list-style-type: none">Job holders will continue to drive implementation of continuous improvement initiatives across improvements in architectural services, technologies, and environmental sustainability and green building strategies.Job holders may need to Job holders may leverage digital tools (e.g., Data Analytics) to conduct effective cost-benefit analyses and viability assessments of initiatives to drive successful implementation.	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	People Management	Project Risk Management
Regulatory Submission and Clearance	Stakeholder Management	Technology Application
Technology Scanning		
Emerging Technical Skills and Competencies		
Design Sustainability and Ethics Management		