

Role Name: AI Ecosystem Architect

Role data

Position no.	E13428	Work Area Profile	Data Analytics and Insights
Work Level Classification	EA L8	Directorate/Business Unit	Technology
Reports to (role)	Chief Data, Analytics and Insights Officer	Location	Melbourne or Sydney
No. direct reports	Tbc	No. of indirect reports	Tbc
Version date	8 October 2026	Tenure	FTC 1 year

Work area profile

Ahpra's overall purpose is to protect the public by regulating health practitioners efficiently and effectively in the public interest to facilitate access to safer healthcare for all the community. Website: www.ahpra.gov.au

The Data, Analytics and Insights function builds Ahpra's capability to use trusted data, insights and AI safely and effectively to support intelligence-led, prevention-focused regulation. The function partners across Ahpra to improve regulatory decision-making, anticipate risk, prevent harm and support public protection.

The AI, Insights and Advanced Analytics work area leads the development of forward-looking intelligence, advanced analytics, machine learning, natural language processing, generative AI and AI-enabled decision support. It works closely with data governance, risk and assurance, security, privacy, architecture, technology teams and business areas to ensure AI use cases are practical, governed, secure and aligned to organisational priorities.

Role purpose

Currently reporting to the Chief Data, Analytics and Insights Officer (CDAIO), the AI Ecosystem Architect is responsible for managing the delivery of Ahpra's AI ecosystem and supports AI, analytics and automation initiatives moving safely from concept to operational use. The role provides technical leadership in AI architecture, solution design, system integration, model governance and responsible AI.

The role operates within Ahpra's framework of decision making, policies and initiatives and works closely with Technology teams and business stakeholders, turning priority regulatory challenges into practical, scalable and secure AI solutions.

This is a hands-on position that provides expert advice to the CDAIO and leadership teams, manages architecture standards, supports technical delivery and experimentation, and ensures AI solutions protect sensitive information, support human decision-making and maintain trust in Ahpra's regulatory decisions.

Australian Health Practitioner Regulation Agency
National Boards

GPO Box 9958 Melbourne VIC 3001 Ahpra.gov.au 1300 419 495

Ahpra and the National Boards regulate these registered health professions: Aboriginal and Torres Strait Islander health practice, Chinese medicine, chiropractic, dental, medical, medical radiation practice, midwifery, nursing, occupational therapy, optometry, osteopathy, paramedicine, pharmacy, physiotherapy, podiatry and psychology.

Key accountabilities

- Support the design and evolution of Ahpra's AI ecosystem architecture, including reusable solution patterns for generative AI, machine learning, natural language processing, automation, data science and AI-enabled decision support.
- Translate business and regulatory problems into practical AI architecture options, working with stakeholders to clarify objectives, data needs, risks, constraints, success measures and pathways to operational use.
- Provide hands-on technical leadership across AI proof-of-value work, prototypes and early production solutions, ensuring designs are secure, scalable, supportable and aligned with enterprise architecture principles.
- Partner with data engineering, BI, platform, IT operations and security teams to ensure AI solutions are supported by reliable data pipelines, appropriate access controls, logging, monitoring and operational support arrangements.
- Embed responsible AI, privacy, security, information management, explainability, human oversight, auditability and model governance requirements into solution design from the outset.
- Support and maintain AI architecture patterns, guardrails, design standards and reusable technical assets that support consistent delivery across the AI, insights and advanced analytics portfolio.
- Assess technical feasibility, risk, complexity and reuse potential of proposed AI use cases as part of intake, prioritisation and governance processes.
- Support the design and maintenance of Ahpra's AI use case register and overview dashboard by contributing architecture, risk, lifecycle and operational readiness information.
- Guide the transition of validated AI and analytics products from innovation environments into governed production or operational use, including model monitoring, explainability, bias testing, retraining and audit considerations where relevant.
- Provide expert advice to senior stakeholders on emerging AI tools, methods and ecosystem trends, translating technical concepts into clear, practical implications for Ahpra.
- Work with business areas, National Boards and enabling functions to ensure AI-enabled tools are designed around real user needs and improve decision-making without replacing professional judgement.
- Coach and guide data scientists, engineers, analysts and delivery partners in solution design, technical assurance and responsible AI architecture practices.
- Contribute to vendor, partner and technology assessments where AI, automation, analytics or data platform capabilities are being considered or introduced.
- Foster a culture of safe experimentation, continuous improvement, transparency and learning across Ahpra's AI and analytics ecosystem.
- People Management (if applicable): Achieving organisational goals by effectively managing the team's and team members' workplace performance. This means to:
 - Enhance and encourage direct reports' potential through development and coaching activities
 - Take actions to close identified performance gaps in a timely and effective manner
 - Comply with Ahpra performance objectives setting, review and development processes
 - Motivate direct reports' behaviour by providing clear direction and recognition of achievements as well as personally modelling Ahpra standards of behaviour
 - Support team member/s health, safety and wellbeing by proactively managing physical, psychosocial and other workplace hazards and risks, and supporting team members in special roles (HSW Committee, Emergency Warden and First Aid Officers)

- Health safety and wellbeing: Ensuring that Ahpra is a healthy and safe working environment with the required level of care and respect for others. This means to:
 - take reasonable care for own and others' health, safety and wellbeing
 - proactively raise any health, safety and wellbeing concerns
 - adhere to Ahpra's workplace health, safety and wellbeing policies and procedures.

Capabilities for the role

The Ahpra [Capability Framework](#) applies to all Ahpra employees. Below is the complete list of capabilities and proficiency level required for this position.

Capabilities	Proficiency level
Commits to customer service	Intermediate
Displays leadership	Intermediate
Generates and delivers the strategic vision	Intermediate
Demonstrates an awareness of the National Registration and Accreditation Scheme (the National Scheme) and the National Law	Intermediate
Builds constructive working relationships	Advanced
Communicates effectively	Advanced
Demonstrates accountability in delivering results	Intermediate
Uses information and technology systems	Advanced
Displays personal drive and integrity	Intermediate

Qualifications/Experience	Required
Qualifications	Relevant tertiary qualification in data science, computer science, software engineering, information systems, data engineering or a related discipline, and/or equivalent professional experience. Relevant cloud, data, AI, architecture, security, privacy, analytics and regulatory intelligence certifications are desirable.
Experience	Extensive experience designing and delivering AI, data science, machine learning, generative AI, analytics engineering or automation solutions in complex environments. Strong experience with AI solution architecture, model lifecycle practices, data pipelines, APIs, integration patterns, cloud data platforms, security controls, access management, logging and

	monitoring. Demonstrated ability to translate complex technical concepts into clear business advice and to influence senior stakeholders on solution options, risks and trade-offs. Experience applying responsible AI, privacy, security, explainability, human oversight, auditability, bias testing or model governance practices to real-world use cases. Experience working across multidisciplinary teams, including business stakeholders, architects, engineers, analysts, data governance, privacy, security, risk and assurance specialists. Experience in health, government, regulatory or other sensitive information environments is highly desirable.
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Key relationships

Internal relationships	External relationships
Chief Data, Analytics and Insights Officer	National Boards and committees as required
Data, Analytics, Research, Evaluation and Insights leadership team and capability streams	Government and health system partners as required
Information Technology, architecture, platform, security and operations teams	Co-regulators and workforce planning partners as required
Data Governance, Information Management, Privacy, Risk and Assurance	Technology, AI, analytics and cloud vendors
Regulatory operations, registration, notifications, compliance and workforce stakeholders	Professional networks and communities of practice
Change, delivery, product and business engagement specialists	Security, privacy or assurance partners where relevant
	Research or specialist partners where approved