Senior Data Scientist

Job Description

Location: Melbourne | CBD

Job type: Full time

Organisation: Department of Health

Salary: $106,534 - $128,897

Occupation: Other

Reference: VG/1811979

The Department of Health plays a critical role in the Victorian health system and is responsible for shaping it to meet the health needs of all Victorians. We're focused on supporting Victorians to be as healthy as they can; whether through alerting them to seasonal risks like thunderstorm asthma, notifying them of contact with communicable diseases, safeguarding their drinking water, developing the best health, wellbeing and care facilities in the world, being at the forefront of mental health and wellbeing treatment or accelerating medical research. It's all part of the way we partner with the community to help every individual lead a healthy life.

About the role:

The Senior Data Scientist works within the Performance Improvement team, reporting to the Manager, Performance Improvement. This role focuses on leveraging data analytics to enhance ambulance and emergency department performance across Victoria's public health services and hospitals.

The position involves applying advanced analytical techniques to evaluate performance trends and identify true drivers of change in emergency care access. The Senior Data Scientist will use statistical methods to distinguish genuine improvements from normal variations, providing an objective

assessment of system performance. This work is essential for generating actionable insights that support evidence-based decision-making.

A key aspect of the role is translating complex analyses into clear, impactful narratives that inform improvement strategies. The Senior Data Scientist will incorporate principles of improvement science to develop and test hypotheses about factors influencing emergency care efficiency. This involves creating analytical frameworks to assess the impact of various interventions and system changes.

About us:

At the Victorian Department of Health we want a future where Victorians are the healthiest people in the world. A Victoria where our children and people thrive, our workplaces are productive and safe, and our communities are more connected.

We see it as our job to support Victorians to stay healthy and safe. And to deliver a world-class healthcare system that ensures every single Victorian can access safe, quality care that leads to better health outcomes for all.

How you'll make a difference:

Lead advanced statistical analyses of ambulance and emergency department performance data, identifying key drivers and distinguishing genuine improvements from normal variations.

Select and apply appropriate statistical methods to analyse performance data, ensuring robust evaluation of trends, hypothesis testing, and identification of significant changes in emergency healthcare performance.

Develop comprehensive reports and provide authoritative, evidence-based advice, effectively translating complex analytical findings into clear, actionable insights for both technical and non-technical stakeholders, including senior management, ministers and health services.

Communicate complex data insights and performance improvement trends through visually appealing and intuitive presentations, utilising appropriate software tools to create impactful dashboards, reports, and visualisations

Champion analytical best practices and enhance departmental and health service data literacy through coaching and mentorship, uplifting capabilities to drive evidence-based decision making and performance improvement.

Cultivate effective relationships with internal and external stakeholders. Engage in collaborative dialogues to gather insights, understand operational contexts, and ensure data analysis aligns with real-world healthcare challenges and priorities.

Represent the department on key government and non-government committees and bodies concerned with achieving relevant government and departmental objectives.

To learn more please click 'Apply' to view the Position Description on the Careers.vic website.

What we offer:

The opportunity to perform meaningful work, making direct contributions toward enabling Victorians to be the healthiest people in the world.

A wide range of growth and development opportunities within the department and wider Victorian Public Service & Sector.

A strong commitment to work-life balance, including a diverse array of flexible working arrangements.

How to apply:

Applications should include a resume and a cover letter. Click the 'Apply' button to view further information about the role including key contact details and the advertisement closing date.

We are committed to developing and supporting a workforce that is well equipped and highly motivated to provide responsive and quality services to all Victorians. We continue to build an inclusive workplace that embraces diversity of backgrounds and differences to realise the potential of our employees for innovation and delivering services aimed at enhancing the lives of all Victorians.

All roles can be worked flexibly and we encourage applications from Aboriginal people, people with disability, LGBTIQ+ and people from culturally diverse backgrounds. Please contact us if you require any adjustments to participate in the recruitment process at inclusion@health.vic.gov.au. For more information on our commitment to inclusion and diversity see inclusion and diversity at the Department of Health.

Preferred applicants may be required to complete a police check and other pre-employment checks including proof of 3 vaccinations (including booster) against COVID-19. Information provided will be treated in the strictest confidence, in line with our Privacy Policy.

The Jobs and Skills Exchange (JSE) Recruitment Policy allows for priority consideration for employees who apply through the Jobs Skills Exchange (JSE) jobs board platform. As such, these employees are strongly encouraged to submit their application through the JSE.