

Geographic information systems

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Company: Work in Rail

Location: Australia

Category: other-general

Also known as: Geospatial analyst, Geographic information systems technician, Spatial science officer, Spatial asset manager Is this role right for you?As a GIS specialist, you'll wrangle huge volumes of data to create precise and useful maps. You'll be able to peer through dense information to visualise changes to natural landscapes and built environments. You'll enjoy using 2D and 3D maps to communicate ideas to different audiences.What are some example projects or experiences?GIS specialists are highly skilled in analysing and managing data, and producing maps. They use software programs to assist in their work, and provide technical expertise about geographic information systems to others. These systems look for spatial relationships, patterns, and trends in geography.In rail, a GIS specialist may be involved in planning or managing rail infrastructure. They share data in ways that helps stakeholders make decisions about rail design, maintenance, or the best way to manage resources.GIS specialists have strong knowledge of policies, best practice standards, and legal requirements. They consult with stakeholders on how to move forward with projects or plans.What is the work environment like?You'll work in a team of engineers and skilled tradespeople.You may work in an office, using geospatial software to plan new heavy haul railway lines. Or, you could work in an existing rail corridor using GPS and Lidar to map natural resources and railway infrastructure.You can find work as a GIS specialist all around Australia. Most jobs are in cities and towns. Some are in remote areas. Your job may require you to travel.GIS specialists typically need a qualification that includes a focus on geographical information systems as part of a civil engineering degree. They generally study areas such as environmental science, natural resource management, urban and regional

planning, and infrastructure management. Our industry values diverse personal and work experience. Many employers can provide you with opportunities to gain new qualifications and industry experience to help you succeed. Salaries may vary outside of these ranges, based on company size and location, level of experience, competence and time in role.

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