

Aaron Zhao

Acoustic Engineer



Since joining AES in 2016 after finishing his Master of Engineering Studies (Mechanical) at the University of Auckland, Aaron has completed numerous environmental acoustics projects including the assessment of noise from traffic, rail, aircraft, commercial centres, restaurants, bars, music festivals, fire stations and many other noise sources. The analysis and control of noise from these sources fits well with his keen interest and experience in theoretical calculations and computational modelling. Through this work Aaron has gained a good understanding of the most effective and economical strategies for managing noise from a wide range of environmental sources.

Prior to commencing a career in acoustics, Aaron accumulated over 5 years' experience in a number of roles related to the operation and maintenance of a large, complex, industrial facility, and the building services industry. His Master's research involved the investigation of the performance of an underfloor air distribution system with a passive chilled beam in an office situation. This background means Aaron is well placed to understand and apply his skills to noise issues associated with industrial installations and mechanical plant associated with buildings.

Major projects - Building acoustics

- Seed Force Building, Christchurch
- 20 Hereford Street Apartment development, Christchurch
- Celebration Lions Sports Trust, Indoor Sports Stadium, Christchurch
- 377 Barbadoes Street Apartment development, Christchurch

Major projects - Environmental acoustics

- Sumner Fire Station, Christchurch, Assessment of Environmental Noise Effects
- Tuki Music Festival, Wanaka, Assessment of Environmental Noise Effects
- Red Cottage Café, Lake Hayes Estate, Operation Noise Assessment
- Van Rij Residence Extension, Christchurch, Aircraft Noise insulation review

- Holiday Inn Express Hotel, Queenstown, Construction Noise Assessment
- Colombo Street Retail, Christchurch, External Mechanical Plant Noise Assessment
- Northpark Motel, Timaru, Traffic Noise Ingress Review
- Harrison House, Scargill, Rail Noise review
- Rosemerryn Mixed-use Development, Lincoln, Assessment of Environmental Noise Effects

Affiliations

- Affiliate with the Acoustical Society of New Zealand
- NZ Site Safe Consultants Passport

Qualifications

- Master of Engineering Studies (Mechanical) – University of Auckland (2016)