

Postdoctoral Researcher Positions

The School of Mechanical Engineering at The University of Adelaide in Adelaide, South Australia is currently seeking suitably qualified candidates to fill three postdoctoral research positions.

(1) Postdoctoral Research Associate in Jet Noise

This three-year position will require the successful applicant to perform research into the noise production mechanisms of high-speed jets. In particular, the research associate will investigate jet noise using novel acoustic measurement techniques utilising the time-reversal and beamforming methodologies.

Applicants with a PhD in engineering, physics, mathematics or computing science are encouraged to apply. The project will involve both numerical and experimental aspects, hence a background in either of these areas is acceptable.

Ideally, the candidate will have experience in aeroacoustics. Experience or knowledge of signal processing, fluid mechanics and/or acoustic measurement techniques is desirable.

Contact A/Prof Con Doolan con.doolan@adelaide.edu.au

(2) Postdoctoral Research Associate in Wind Turbine Noise

This three-year position will require the successful applicant to take extensive noise and vibration measurements inside and outside of houses near both existing and proposed wind farms in the mid-north of South Australia. The Research Associate will also be required to analyse the data and develop models to describe the propagation of low frequency noise from wind farms in rural Australia. The work will also involve collaborating with Health Science researchers to link noise level variations with arousal levels in sleeping subjects.

Applicants should possess a PhD in some aspect of acoustics and vibration, have some familiarity with modern digital instrumentation for noise and vibration measurements, have experience in the use of MatLab and have familiarity with other numerical analysis and modelling tools used in acoustics and vibration.

Contact: Professor Colin Hansen colin.hansen@adelaide.edu.au

(3) Postdoctoral Research Associate in Airfoil Trailing Edge Noise

This 12-month position will require a postdoctoral research associate to investigate the mechanics of airfoil noise production and methods for its control. Ideally the candidate will have a PhD in engineering and a background in experimental aeroacoustics; however, researchers in the areas of acoustics and fluid mechanics are also encouraged to apply. Experience or knowledge of signal processing, laser based flow diagnostics and/or acoustic measurement techniques is also desirable but not essential.

Contact A/Prof Con Doolan con.doolan@adelaide.edu.au

The salary for all positions is at Level A (Academic), step 7 or 8, \$71,278 - \$73,800 depending on experience. The first two positions begin on February 1, 2012 and the third position is available immediately.

For successful international applicants, work visas can be arranged for partners as well as for the successful candidate.