

EXPLORE THE SOUND AROUND YOU



University of
Salford
MANCHESTER

Everyday we experience sound and noise at different levels. Explore how decibels (db) impact your daily life, and see how the study of audio and acoustics can help to improve our quality of life and create a better sounding world.

0db

BREATHING

0-10db

20db

RUSTLING LEAVES

The sound of autumn in Peel Park, just a few minutes walk from our audio and acoustic labs.



ANECHOIC CHAMBER

Our anechoic chamber is one of the quietest places in the north west. The ambient decibel level inside of it is actually -12.4dbA.

CAREER LINK

ACOUSTICIANS use our anechoic chamber, and other acoustic facilities for **product sound testing** to measure the noise output from new products.

DID YOU KNOW THAT WITH EVERY INCREASE OF 3db, THE INTENSITY OF THE SOUND DOUBLES? So, with a small increase in sound level, the power that sound has increases by much more.

RECORDING STUDIO

We have a range of professional facilities on campus to record, mix and master audio.

20-30db

DID YOU KNOW?

PSYCHOACOUSTICS is an extremely important area of study when **designing and building recording/editing space**, as it relates to how people perceive and respond to sound in that environment, and how we can alter it.



30db

COMPUTER HUM

WHISPERING

QUIET STUDY AREA

Another quiet place on campus is inside the Clifford Whitworth Library. The perfect space to focus and escape everyday noise.

50db

MODERATE RAINFALL

40db

60db

NORMAL CONVERSATION



75db

ALARM CLOCK

80db

MANCHESTER TRAFFIC

Salford is located just outside of Manchester city centre, with a train station on campus, and bus and bike lanes nearby.

CAREER LINK

ACOUSTIC CONSULTANTS assess and advise on building requirements within cities to reduce/remove noise from traffic and external environments.



80-90db

STADIUM FOOTBALL FANS

DID YOU KNOW?

Stadium noise surveys are carried out to avoid a negative impact on the environment and people who live nearby. With both the Manchester City and Manchester United football grounds close by, this is an important consideration for our city.



CONCERT

With the infamous Manchester music scene on our doorstep, the huge number of live music events and venues nearby offer a fantastic opportunity to see acoustics and sound engineering in action.

DID YOU KNOW?

Listening at this level without ear protection can cause hearing damage in less than 5 minutes.

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ACOUSTIC ENGINEERS measure, monitor and control sound levels at events to make sure they are within legal limits, and to prevent damage to people's hearing.



MUSIC IN HEADPHONES

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AUDIO TECHNOLOGY DESIGNERS help to create our everyday audio experiences by ensuring sound quality and clarity in products, including headphones and earbuds.

90db



MOTORBIKE

110-120db

100db

HUMAN PAIN THRESHOLD

130db

JET ENGINE

DID YOU KNOW?

Our acoustic research team are currently working as part of an innovation project, helping to design a low noise, all electric, aircraft propulsion module which has zero tailpipe emissions.

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Measuring and monitoring **ENVIRONMENTAL NOISE** is an important area of acoustics, to ensure people's safety, and to protect local areas from noise pollution when near to places like airports.



CAREER LINK

Researching and working in **VIBRATION AND DYNAMICS** looks at the physical effects of sound at this level and intensity, and looks to reduce and manage its impact.

140db

180db

FIREWORKS



ROCKET LAUNCH