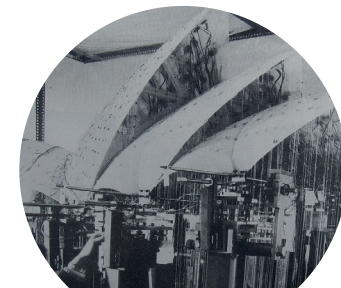


# Engineering and the Environment Making history for over 120 years

For over 120 years we've been  
using sound science and creative  
engineering to shape the world  
you know today

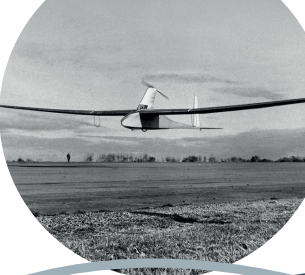
**1882:** Frederick Lanchester  
studied at the Hartley  
Institute (now the University  
of Southampton), before  
designing and building one of  
the first petrol-driven four-  
wheeled cars

**1950:** Elfyn Richards, Chief  
Aerodynamicist and a designer  
of the Vickers Viscount aircraft,  
introduced research on the  
environmental and industrial  
effects of noise and vibration



**1959:** Our researchers  
developed modelling  
techniques to analyse and  
improve the design of the  
iconic Sydney Opera House

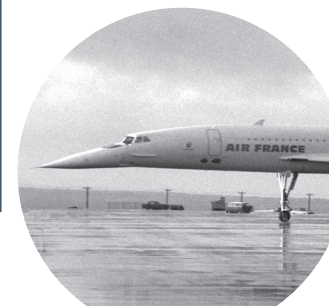
**1952:** The University of  
Southampton was granted  
its Royal Charter



**1961:** Aeronautical engineering  
students flew the world's first  
human-powered aircraft

**1963:** The Institute of Sound  
and Vibration Research  
(ISVR) was established

**1964:** Geoffrey Lilley, leader  
of the Concorde technical  
team and the Father of  
Aeroacoustics, joined  
the University



**1979:** The world's first  
cryogenic wind tunnel was  
designed and demonstrated  
at the University, before the  
technique was adopted by NASA



**1970s:** The first moving ground  
in a UK university was installed in  
our wind tunnel, revolutionising  
car design



**1988:** Flight trials of an active  
noise control system were  
carried out with British  
Aerospace; audible inflight  
entertainment was born

**1981:** The RJ Mitchell Wind  
Tunnel was presented to the  
University by the Royal Aircraft  
Establishment (RAE) to support  
Formula One and IndyCar work

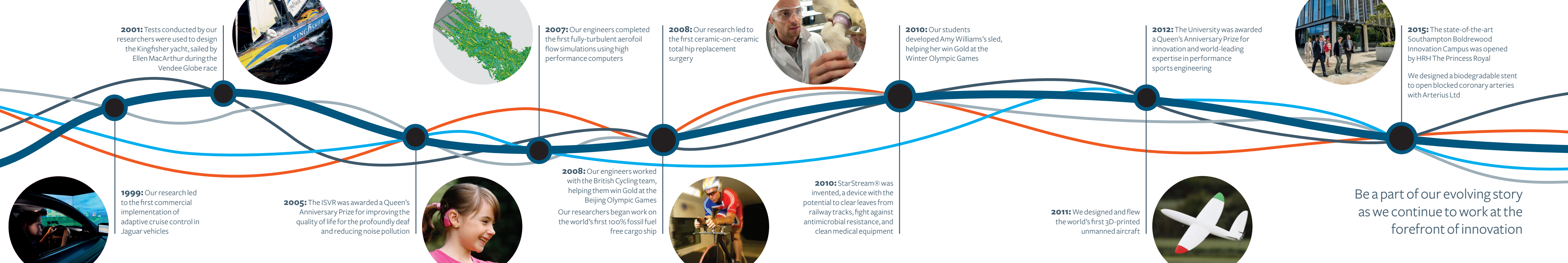
**1990:** The ISVR Hearing  
and Balance Centre, now the  
University of Southampton  
Auditory Implant Service, fitted  
their first cochlear implant device

**1996:** We began work on  
European Union funded projects  
to reduce railway noise, with the  
rail dampers we developed now  
implemented in 16 countries



**1998:** Academics working on  
bubble acoustics co-authored  
the current guidelines for every  
foetal scan in the world — that's  
over 700 million births to date

www.southampton.ac.uk/  
engineering/making-history



Be a part of our evolving story  
as we continue to work at the  
forefront of innovation