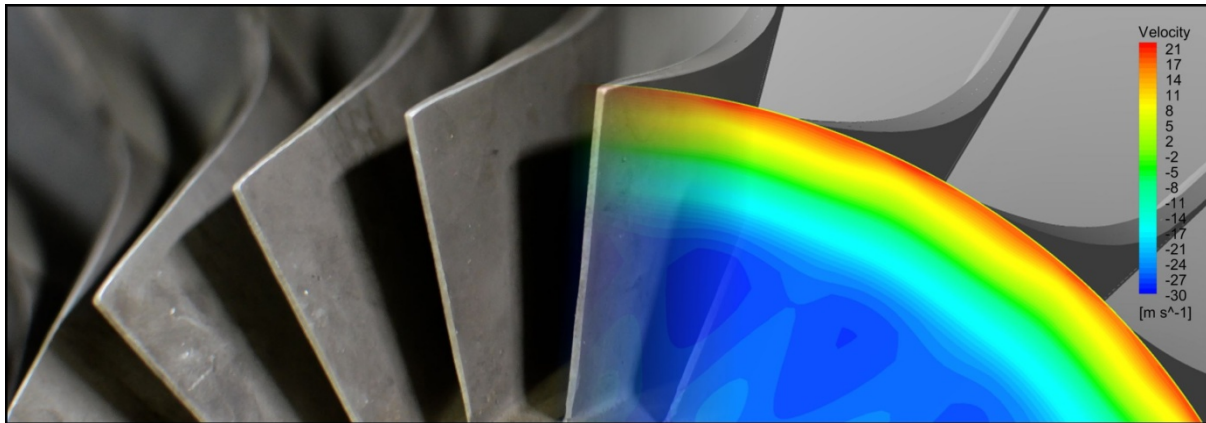


Supercomputing for Industry in the West of Scotland

Using ARCHIE-WeSt for Industrial Computational Fluid Dynamics and Finite Element Simulations



Centrifugal compressor flow velocity map calculated on ARCHIE-WeSt. Image provided by Grzegorz Liśkiewicz, University of Strathclyde / Lodz University of Technology

Monday 8th December 1pm – 5pm (lunch provided)

Location: Room 229 a/b, Lord Hope Building, University of Strathclyde

Register at: <http://www.archie-west.ac.uk/for-industry/workshop-registration>

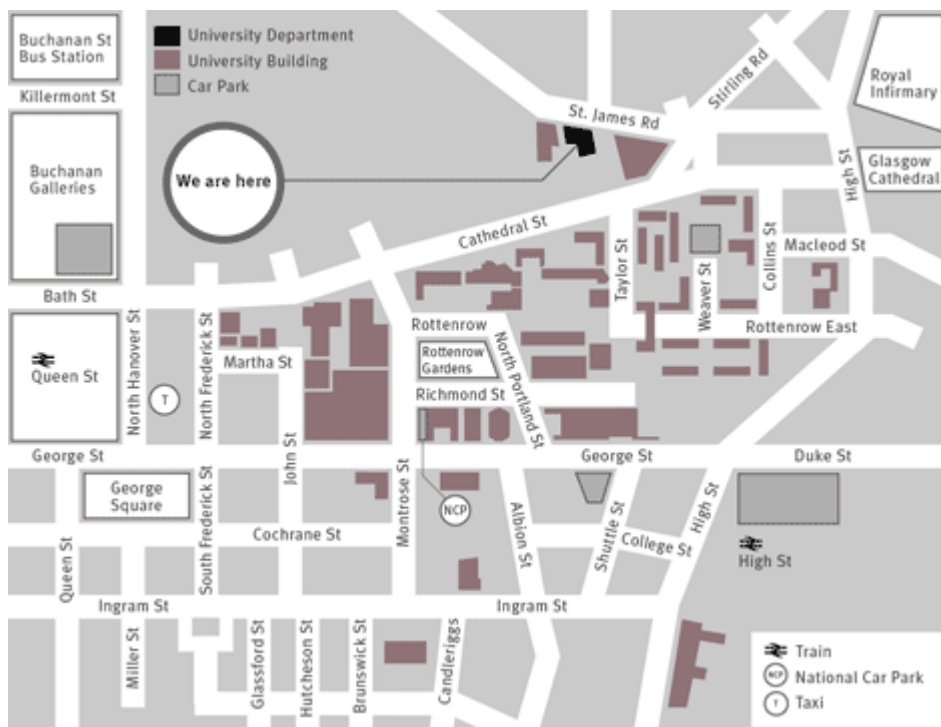
Recent government reports have concluded that High Performance Computing has the potential to add 3% to national GDP. The realisation that “whoever out-computes will out-compete” has led the UK government to invest in Supercomputing Centres such as ARCHIE-WeSt at the University of Strathclyde.

The productivity of companies can be significantly enhanced by using supercomputer technologies for data analysis, large-scale modelling and optimization of work-flows. ARCHIE-WeSt offers considerable capacity, both in terms of computational power and throughput, which has the potential to produce a transformation in performance even for SME’s with modest computational needs. The Centre also provides access to state-of-the-art techniques and expertise of more than a hundred academic groups involved in the research activities of the ARCHIE-WeSt. The training program of the Centre has various modules that are specifically designed for industrial research needs.

Programme

- 13:00 **Lunch**
- 14:00 **Welcome**, *Dr Paul Mulheran*
High Performance Computing & CFD at Expro, *Dr Derek Bennet, Expro Group*
- 14:30 **Leveraging the power of ARCHIE-WeSt for CFD with OpenFOAM**, *Dr Tom Scanlon, U. of Strathclyde*
- 15:00 **Coffee**
- 15:30 **Delivering High-Quality Engineering Solutions Using ARCHIE-WeSt**, *David Smith, Weir Services*
- 16:00 **Finite Element Simulations using ARCHIE-WeSt**, *David Mackie, University of Strathclyde*
- 16:30 **Discussion**
- 17:00 **Close**

Lord Hope Building:



Address

141 St James Road,
Glasgow
G4 0LT

Parking

Pay and display parking is available at Cathedral Car Park (access from Cathedral St or Stirling Road)

Multi-storey car parks are available at Montrose St (NCP, as indicated on the above map) and Buchanan Galleries.