ARCHIE-WeSt
www.archie-west.ac.uk
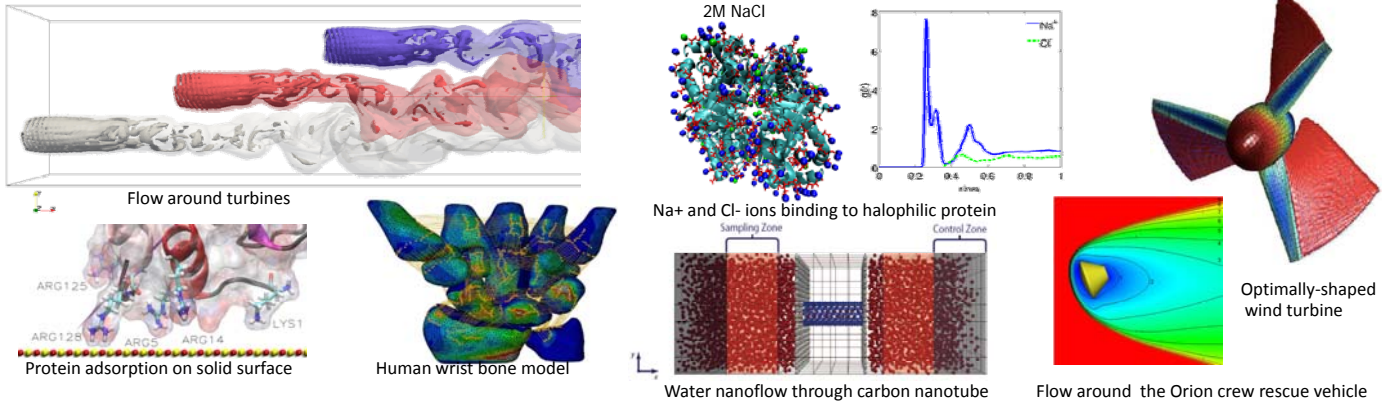
EPSRC Pioneering research and skills

Academic and Research Computer Hosting Industry and Enterprise in the West of Scotland

We are a supercomputer centre for the West of Scotland based at the University of Strathclyde, dedicated to wealth creation and research excellence. Funded by a seed e-infrastructure grant from EPSRC, we operate in partnership with the Universities of Glasgow, Glasgow Caledonian, West of Scotland and Stirling.

Flow around turbines

Protein adsorption on solid surface

Human wrist bone model

2M NaCl

Na+ and Cl- ions binding to halophilic protein

Water nanoflow through carbon nanotube

Flow around the Orion crew rescue vehicle

Optimally-shaped wind turbine

The aims of the centre are: ● to support multi-disciplinary research, with a centre of gravity in engineering and physical science ● to reach out to other disciplines ● to enable and encourage industrial usage and collaboration

Technical Specification of ARCHIE-WeSt

ARCHIE-WeSt is a state-of-the-art water cooled 38 Teraflop HPC Facility located at the University of Strathclyde

Standard Nodes:	3408 2.66GHz Intel Xeon X5650 cores (Westmere), 48GB RAM (4GB per core)
Large Memory Nodes:	Eight 512GB RAM nodes, 4 Intel Xeon E7-4830 2.13GHz CPU's
GPU Nodes:	Eight Standard Nodes each with Nvidia Tesla M2075 GPU cards (448 cores, 6GB RAM)
Visualisation Nodes:	Two Dell R5500 servers with Nvidia Quadro 6000 graphics, 2 Xeon X5650 CPU's, 48GB RAM
Network:	QDR Infiniband 40GB/s networking throughout the whole cluster
Storage:	150TB of high performance LUSTRE parallel storage, capable of 3.5GB/s data transfer

Competitive charges for using ARCHIE-WeSt

ARCHIE-WeSt is a non-profit making facility focused on supporting Research and Enterprise in the West of Scotland.

Institution	Core-hour price (+ VAT)
Consortia University	£0.04
Other University	£0.06
Industry	£0.10

Charges are calculated per Allocation Unit of CPU time, defined as 1 core-hour on an ARCHIE-WeSt standard compute node i.e. one core-hour of an Intel Xeon X5650 2.66GHz CPU.

Service Element	AU multiplier
Standard Node	1.0
Large Memory Node	1.5
GPU Node	10.0

Different parts of the service will be charged at different multiplies of the Allocation Unit

Our package

We offer HPC access at a highly competitive price, consultancy in HPC related areas, user-specific training courses, free introductory compute hours for feasibility studies, free introductory training and assistance, priority service for commercial customers, academic consultations, advanced training and much more.

University of Strathclyde Glasgow   University of Glasgow   GCU Glasgow Caledonian University   UNIVERSITY OF STIRLING   UWS UNIVERSITY OF THE WEST of SCOTLAND