

You & IaaS

Making the
Invisible Visible



i Sci

Interactive
Scientific

ORACLE®

A REVOLUTION IN SCIENTIFIC UNDERSTANDING

Bristol-based scientific software company, Interactive Scientific, is on a mission—to totally transform science education and research.

By using digital tools, they aim to bring the invisible scientific world to life, and make complex scientific information visual and interactive.

i Sci
Interactive
Scientific

Nano Simbox

A network for
the UK's most
passionate science
educators

FROM CLOUD ZERO TO SCIENCE HERO

Becky Sage, Chief Executive Officer

Interactive Scientific CEO, Becky Sage, is passionate about making scientific education and research fit for purpose in the 21st century. And her company's first step in treating science differently is the launch of an immersive digital tool called Nano Simbox.

"Science is a subject that should be accessible to everyone, and by offering interactive tools, that can be used in formal and informal environments, we're delivering new ways to teach and research science. By including these tools in the curriculum we can widen the number of people that understand and interact with abstract scientific concepts.

Nano Simbox takes complex scientific information and describes the way atoms and molecules work, in a way that's fun. And because it's a tool rooted in science, researchers can explore molecular behaviours by creating all sorts of scientific simulations.

We chose the Oracle Infrastructure as a Service (IaaS) Bare Metal Cloud because it's a clean, simple platform that offers immense scalability—something we couldn't get from other cloud providers. From having zero cloud computing experience, Oracle has helped us

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achieve full operational status in just six months, allowing us to run our simulations in the cloud and stream the interactive content to smart phones, tablets and other devices."



ANALYSING, INNOVATING, IMPROVING

Phill Tew, Chief Technology Officer



As well as using the massive compute power of Oracle IaaS Bare Metal Cloud to process real-time simulations, Chief Technology Officer, Phill Tew, is using its powerful analytics to understand how the Nano Simbox application can be improved.

"Oracle IaaS gives us direct access to the compute power we need, making it easy to run our scientific simulations, and we also benefit from its powerful monitoring features. As a result, we're able to determine the elasticity of the development environment we built on the IaaS platform."

Oracle IaaS definitely helped us innovate our early product, and by using its analytics to measure user journeys, we're able to build essential enhancements into forthcoming releases.

We are now looking into how IaaS can support the use of virtual reality (VR) and augmented reality (AR) to create the most appropriate immersive experiences for our customers in research and education.

Partnering with Oracle has given us a valuable head-start, and they've really bought in to what we're trying to do. Their engineering team is excited about new, innovative technology and

they share our vision for success. The help they give us means we're able to get the most from the IaaS technology while making our product the best it can be."

"Oracle IaaS gives us direct access to the compute power we need."

TAKING SCIENCE EDUCATION TO A DIFFERENT LEVEL

David Glowacki,
Founder/Scientific Consultant

As a lecturer and Royal Society Research Fellow at Bristol University, David Glowacki and his PhD students use Nano Simbox to carry out molecular research and teaching. As a consultant to Interactive Scientific, he is helping to build the application and infrastructure stack alongside the development team at Oracle.

"Oracle IaaS Bare Metal Cloud offers a range of robust security protocols built in."

"Nano Simbox will allow chemistry students and researchers to experience an accurate representation of the forces that govern the behaviour of matter at the atomic level. The ability to interact with models in real-time is a big step in terms of research and teaching at university level.

Oracle IaaS Bare Metal Cloud offers a range of robust security protocols built in, and the simulation engine we've created for the university offers a number of advantages over standard university cloud-based computers. As a result, students and researchers can interact with simulations in real-time, without worrying about the risk of data breaches.

We expect Oracle will continue to innovate its IaaS platform and build out its cloud and analytics offerings in the future. We definitely see this scaling to enable super high-powered scientific calculations that people can interact with. We also expect to see high-powered compute capabilities

having a hugely positive impact on the environment, and as an Oracle IaaS customer, we hope to be involved in this for years to come."

Find out how You & IaaS can help you transform your business and bring your ambitions to life in the cloud:

[Visit our resource centre >](#)

