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CLOUD

Oracle Cloud Infrastructure Powers the Research Community

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By Ben Fineman

I'm delighted to announce a new series of virtual events produced in conjunction with Internet2 industry member Oracle Corp. Over the coming months, we'll be featuring CERN, the European Laboratory for Particle Physics, and the University of California, Davis, along with Oracle cloud experts, to learn how Oracle's advanced cloud computing capabilities can benefit university research programs.

As with many large institutions with complex back-office and administrative functions, yours is most likely running foundational Oracle technology behind the scenes. But you may not know that Oracle's cloud computing capabilities support a wide spectrum of disciplines within research and industry.

 When you look under the hood of your car, consider that your engine's performance may have been tuned using the computational fluid dynamics capabilities running on Oracle high-performance computing capabilities. During these times of remote work, learning and social interaction, you've probably used the popular Zoom meeting service, supported by Oracle Cloud Infrastructure. And, if you're following the progress of a vaccine for COVID-19, be aware that Oracle's cloud capabilities are supporting global research efforts, including the development of the COVID-19 Prevention Network, a screening registry that creates a list of potential volunteers who want to take part in current or future COVID- 19 prevention clinical trials.

Register now for the first webinar: **Tuesday, Nov. 10th at noon ET.**

Igniting Research with Oracle High Performance Computing will offer insights into how Oracle's cloud-based infrastructure is enabling researchers to solve complex technical problems. You'll explore how this supercomputing platform gives researchers access to bare metal NVIDIA GPUs, high performance computing instances, and a low-latency clustered network. Researchers can create clusters for running large-scale computations to accelerate the research in multiple branches of science and engineering like drug discovery, genomics, weather forecasting, space exploration, and more.

- **Tuesday, Dec. 8, noon ET: Combating drug-induced cardiotoxicity**: At the <u>University of California, Davis</u>, researchers are using Oracle Cloud to support the development and use of a multi-scale computational drug screening pipeline that aims to enable more accurate assessments of the arrhythmogenic propensities of drugs based on their chemical structures. When a drug or combination of drugs interacts in unwanted or unexpected ways with human cardiac protein ion channels, the results can be deadly – but they won't always be. Therefore, screening pharmaceutical compounds for their potential effects on the heart is critical to drug safety and efficacy. With OCI virtual machines, bare metal GPU and CPU shapes, and ultra-fast HPC networking, UC Davis researchers can accelerate their molecular dynamics simulations and 3D cardiac tissue modeling, saving both cost and time.

- **January 2021: Accelerating science**: Oracle cloud helps CERN explore our universe. CERN, the European Laboratory for Particle Physics, uses Oracle Autonomous Database and Oracle Cloud Infrastructure to support the control systems for the Large Hadron Collider, the world's largest and most powerful particle accelerator.
- **February 2021: Pay only for what you use**: Learn how to leverage the scale of your institutional spend to get more processing and services for your dollar. Discover how to provision and use OCI and HPC services, including <u>compartments</u> and tags to tie back relevant cost data to your research budget.
- <u>Register today</u> to receive all of the announcements for this series.

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