



“Our mission is to solve this health crisis and come—as soon as we can—with a drug or a treatment, and we will.”

– DR. JEROME BAUDRY

MRS. PEI-LING CHAN CHAIR
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ACCELERATING DRUG DISCOVERY WITH AI

University of Alabama in Huntsville is deploying supercomputing resources to understand virus behavior and accelerate natural drug discovery through the use of artificial intelligence.

OBJECTIVES

- Solve the coronavirus pandemic with new therapies
- Build protein models to boost understanding of virus behaviors
- Deploy supercomputing resources to screen massive amounts of data

REQUIREMENTS

- Harness the power of artificial intelligence platform to speed findings
- Provide the research power equal to the Earth's entire population doing 20,000 calculations every second
- Collaborate with other labs to maximize the chance of success

SOLUTION

- HPE Cray XC50 high-performance computing system

OUTCOMES

- Delivers massive AI analytics capabilities with 147 trillion floating point operations per second
- Creates the possibility to design treatments with characteristics that existing drugs do not possess
- Enables a small research team to do the work of 500,000 people

ADDITIONAL RESOURCES

- [VIDEO](#)

→ EXPLORE DIGITAL GAME CHANGERS



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