

# CBI researchers to receive recognition at UT-Battelle 2018 Awards Night



## **Robert Hettich – Mentor of Student Researchers**

For teaching and mentoring dozens of students at all levels of post-secondary education, most notably 20 Ph.D. students who conducted their dissertation research at ORNL before graduation. Under Bob's mentorship and in connection with his faculty positions at the University of Tennessee, these students have collectively coauthored 108 peer-reviewed publications (including several in *Science* and *Nature*) and have won numerous national and international awards.

## **Daniel Jacobson – Research Accomplishment**

For profound contributions to the field of high-performance computing by breaking an exascale performance barrier and achieving a peak throughput of 2.31 exaops on the Summit supercomputer. This achievement occurred while they were analyzing genomic data for computational explorations of hidden networks of genes in plants and animals, such as biomarkers for drought resistance in *Populus* and disease in humans.

## **Brian Davison – Technology Transfer**

For development of two technologies that resulted in significant revenue for ORNL through licensing agreements and for support of other potential commercialization efforts. He coinvented a process, licensed to Vertimass, to upgrade ethanol into hydrocarbon fuels, and led a multi-institutional team developing a biological route to succinic acid, licensed to Bioamber. As chief scientist, he helped the BioEnergy Science Center team generate 90 invention disclosures, 60 patent applications, and 21 licensing agreements.



Robert Hettich



Daniel Jacobson



Brian Davison