

**Dr. Scott A. Klasky**

**Current:**

**Title: Hobbes: OS and Runtime Support for Application Composition (Collaboration)**

**Award No:**

**Amount:** \$450,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**Award Period:** 02/07/2014 - 09/30/2016

**Person-Person Months:** Years 1-3: No salary support

**P.I.:** Ron Brightwell , Sandia

**Award Period:** 7/1/13 – 6/30/16

**Person-Person Months:** 0.2

This project will deploy, and prototype an exascale Operating System. **The relevance to the proposed work:** The project uses ADIOS to compose applications.

**Title: Runtime System for I/O staging in support of voluminous in-situ processing of extreme scale data:**

**Award Number:** DE-FOA-0001043

**Amount:** \$858,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**P.I.:** Scott Klasky

**Award Period:** 08/01/13 – 09/30/16

**Person-Person Months:** 3.0

**The relevance to the proposed work:** The project uses ADIOS to evaluate different runtime engines for I/O optimizations.

**Project Name: Scalable Data Analysis and Visualization**

**Amount:** \$2,403,000

**Award Number:** DE-FOA-0000589

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**P.I.:** Arie Shoshani, LBNL

**Award Period:** 03/01/12 – 09/30/16

**Person-Person Months:** 2.0

**The relevance to the proposed work:** The project uses ADIOS to optimize the I/O performance of SciDAC applications and INCITE applications.

**Title: EPSI: Edge Physics Simulation**

**Amount:** \$2,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**P.I.:** Choong-Seock Chang, PPPL

**Award Period:** 6/1/12 – 1/30/17

**Person-Person Months:** 1.0

**The relevance to the proposed work:** The project uses ADIOS to enhance the I/O of the XGC1 simulation and to couple codes together.

**Title: ExaCT Center for Exascale Simulation of Combustion in Turbulence Co-design Center**

**Amount:** \$2,5000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**Award Period:** 6/1/2011 – 6/30/2016

**Person-Person Months:** 1.0

**The relevance to the proposed work:** The project looks at the combustion codes and creates skeletons to codesign the I/O layer for the combustion simulations evaluating the trade-offs for recomputing vs. storing and retrieving combustion data.

**Title: International Collaboration Framework for Extreme Scale Experiments (ICEE)**

**Amount:** \$570,000

**Award Number:** DE-FOA-0000695

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**Award Period:** 8/1/12 – 9/30/15

**Person-Person Months:** 1.0

**The relevance to the proposed work:** The project uses ADIOS to stream data adaptively from fusion experiments and simulations to other resources.

**Title: Tools to Analyze Morphology and Spatially Mapped Molecular Data**

**Award No:** 1U24CA180924-01A1

**Amount:** \$ 2,015,673

**Location:** Oak Ridge National Laboratory

**Sponsor:** NIH

**P.I.:** Joel Saltz, Stony Brook University

**Award Period:** 7/31/14 – 5/31/17

**Person-Person Months:** 1.6

**Relevance to the proposed project:** High performance computing tools for high-throughput and pipelined processing of analysis workflows on data from imaging experiments and tools for high performance databases of imaging data from experiments and analysis results data.

**Title: Project Name: Network for ab initio many-body methods**

**Amount:** \$ 2,166,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy, BES

**Award Period:** 10/1/12 - 9/30/18

**Person-Person Months:** 1.2

**The relevance to the proposed work:** This project optimizes the I/O and workflow for the QMCPack simulation.

**Title: Project Name: Oak Ridge Leadership Class Facility (PI/ Project Manager: Buddy Bland)**

**Amount:** > \$100,000,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy, ASCR

**Award Period:** 10/1/10 - 9/30/18

**Person-Person Months:** 1.0

**The relevance to the proposed work:** We work with OLCF customers to optimize their I/O and workflows.

**Pending:**

**Title: SI2-SSI: Collaborative Research: Sustaining ADIOS as a Community Software Framework for Scientific Data Management**

**Amount:** \$1,109,755

**Location:** Georgia Institute of Technology

**Sponsor:** NSF

**Award Period:** 01/01/2016 – 12/31/2018

**Person-Person Months:** no salary support

**The relevance to the proposed work:** This project is mean to create new customers for ADIOS who are heavy NSF users, including: relativity, disaster management, and biomedical.

**Title: Dynamic Distributed Data-centric Resource Management**

**Amount:** \$1,350,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR and OFES

**Award Period:** 9/1/15 – 9/30/18

**Person-Person Months:** 1.0

**This project.**

**Title: Science-driven Data Management for multi-tiered storage**

**Amount:** \$1,650,000

**Location:** Oak Ridge National Laboratory

**Sponsor:** Department of Energy ASCR

**Award Period:** 9/1/15 – 9/30/18

**Person-Person Months:** 1.0

**The relevance to the proposed work:** This work will focus on creating a new multi-tier storage layer.