

Bobby G. Sumpter

Group Leader
Nanomaterials Theory Institute
Center For Nanophase Materials Sciences Division
Oak Ridge National Laboratory
(865) 574-4973
sumpterbg@ornl.gov



Education

South Western Oklahoma State University	Chemistry	B.S., 1983
Oklahoma State University	Physical Chemistry	Ph.D., 1987

Professional Experience

2009–present	Group Leader, Computational Chemical and Materials Sciences and Director of the Nanomaterials Theory Institute, ORNL
2006–present	Senior Research Staff, Center for Nanophase Materials Sciences, ORNL
2003–present	Senior Research Staff, Computer Science & Mathematics Division, ORNL
1992–2002	Research staff scientist, ORNL
1988–1992	Research Associate, UT/ORNL
1987–1988	Postdoctoral Research, Cornell

Professional and Synergistic Activities

Computational Chemical and Materials Sciences: Large-scale electronic, molecular and mesoscale level simulations to generate fundamental information (data) for the design of energy storage, conversion, and transmission systems/materials. Additionally, this approach opens the area of virtual microscopy and neutron scattering, which requires data integration, validation and verification with experimental data and databases.

Honors and Awards

1999	Lockheed Martin Energy Research significant event award
1996	ORNL-CASD Technical Achievement Award

Publications (Author of >200 articles in refereed journals and books):

Graduate and Postdoctoral Advisors

Graduate Advisor: Donald L. Thompson (U. Missouri- Columbia)
Postdoctoral Advisors: Greg S. Ezra (Cornell University), Bernhard Wunderlich (University of Tennessee-Knoxville/ORNL)
Total Graduate Students Advised: 6
Total Postdoctoral Scholars Advised: 6