

UC CI Pilot Proposals

Name	Campus	Title or Description	Email/Contact	Status
Steven Brenner, Associate Professor, Dept. of Plant and Microbial Biology and Staff, Physical Biosciences Division	UCB/LBNL	Comparative Genomics Cyberinfrastructure Needs, Understanding Diversity in Microbial Community Sequencing	brenner@compbio.berkeley.edu	Selected
John Chiang, Assistant Professor, Dept. of Geography and Staff Earth Sciences Division, LBNL; Thomas Zach Powell, Professor, Dept. of Integrative Biology; Inez Fung, Professor of Atmospheric Science, Co-Director, Berkeley Institute of the Environment, Dept. of Earth and Planetary Science and Staff, Earth Sciences Division, LBNL; Ron Cohen, Professor, Dept. of Chemistry	UCB/LBNL	Development of Climate Modeling Capacity at UCB	ifung@berkeley.edu	Selected
Kimmen Sjolander, Associate Professor, Dept. of Bioengineering and Staff, Physical Bioscience Division, LBNL; Steven Brenner, Associate Professor, Dept. of Plant and Microbial Biology and Staff, Physical Biosciences Division; Jasper Rine, Howard Hughes Professor and Professor of Genetics, Genomics, and Development, Dept. of Molecular and Cell Biology	UCB/LBNL	Phylogenomics Cyberinfrastructure for Biological Discovery	kimmen@berkeley.edu	Selected
Giulia Galli, Professor, Chemistry; Mark Asta, Professor, Chemical Engineering and Materials Science; and Francois Gygi, Professor, Applied Science	UCDavis	Optimized Materials and Nanostructures From Predictive Computer Simulations	gagalli@ucdavis.edu	Selected
Louise Kellogg, Director, KeckCAVES, and Chair, Geology Dept.	UCDavis	Geodynamics Research	kellogg@geology.ucdavis.edu	Under Review
Bertram Ludaescher, Associate Professor, UC Davis Genome Center and Bioinformatics Program and Dept. of Computer Science; Dawei Lin, Manager UC Davis Genome Center and Bioinformatics Program	UCDavis	Collaborative Project to Develop Cyber Infrastructure for Genomics and Bioinformatics at UC Davis	ludaesch@ucdavis.edu	Under Review

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Randy Southard, Associate Dean, College of Agricultural and Environmental Sciences	UCDavis	Global Environmental Change and Conservation Biology, Energy, and Biological Networks	rjsouthard@ucdavis.edu	Under Review
Sue Bryant, VCR, Professor, Developmental & Cell Biology	UCI	caBIG Deployment Project - Cancer Biomedical Informatics Grid	svbryant@uci.edu	Under Review
Sue Bryant, VCR, Professor, Developmental & Cell Biology	UCI	Calit2 Large-scale Hydrology Analysis Cyberinfrastructure Proposal	svbryant@uci.edu	Under Review
Simon Penny, Professor of Arts and Engineering, Electrical Engineering and Computer Science - School of the Arts	UCI	Tele-Seminar System	penny@uci.edu	Under Review
Maha Ashour-Abdalla, Professor, Dept. of Physics and and Astronomy, Institute for Geophysics and Planetary Physics	UCLA	Space Plasma Simulations	mabdalla@igpp.ucla.edu	Selected
Nasr Ghoniem, Professor, Mechanical and Aerospace Engineering, Nano and Micro Mechanics Materials Group	UCLA	Nano-system modeling and design of advance materials	ghoniem@seas.ucla.edu	Selected
K.N. Houk, Professor, Chemistry and Biochemistry, California Nanosystems Institute, and Institute for Digital Research and Education	UCLA	Study organic reaction mechanisms and selectivities, enzyme design, and material and molecular devices	houk@chem.ucla.edu	Selected
J.C. McWilliams, A.F. Shchepetkin, and Yusuke Uchiyama, Department of Atmospheric and Oceanic Sciences, Institute of Geophysics and Planetary Physics, Institute of the Environment	UCLA, collaboration with UCSB	Oceanic Simulation of Surface Waves and Currents from the Shoreline to the Deep Sea	jcm@atmos.ucla.edu	Selected
W.B.Mori, V.K.Decyk, F.S.Tsung, P.Pritchett, J.Tonge, Departments of Physics and Astronomy and of Electrical Engineering, Institute for Digital Research and Education	UCLA	Particle-in-cell simulations of Plasmas	mori@physics.ucla.edu	Selected
Chia-en Angelina Chang, Assistant Professor, Chemistry	UCR	Dynamics and Allosteric Regulation of Enzyme Complex	chia-en.chang@ucr.edu	Selected
Jianzhong Wu, Associate Professor, Chemical Engineering	UCR	Functional Theory for Multi-Scaling of Complex Molecular Systems and Processes	jianzhong.wu@ucr.edu	Selected
Paul Atzberger, Assistant Professor, Mathematics	UCSB	Development and mathematical analysis of computational methods	atzberg@math.ucsb.edu	Selected

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Stephanie Hampton, Deputy Director NCEAS; Mark Schildhauer, Director of Computing for NCEAS	UCSB	National Center for Ecological Analysis and Synthesis Projects - Informatics Research	hampton@nceas.ucsb.edu	Under Review
Joan Shea, Associate Professor, Dept. of Chemistry and Biochemistry; Scott Shell, Assistant Professor, Dept. of Chemical Engineering; Baron Peters, Assistant Professor, Dept. of Chemical Engineering	UCSB	Computational Chemistry and Chemical Engineering Projects	shea@chem.ucsb.edu	Selected
Christopher Edwards, Assistant Professor, Ocean Sciences	UCSC	Study of California Current System	cedwards@ucsc.edu	Selected
Gary Glatzmaier, Professor, Earth and Planetary Sciences Dept.	UCSC	Study of Convection and Magnetic Field Generation in Interior of Stars and Planets	glatz@es.ucsc.edu	Under Review
Tom DeFanti, Research Scientist, CallIT2; Peter Otto, Music Tech Director, Music	UCSD	CineGrid Exchange	tdefanti@ucsd.edu	Under Review
Mark Ellisman, Professor, Neuro-Science, Center for Research in Biological Systems	UCSD	Visible Cell Construction Projects	mellisman@ucsd.edu	Under Review
Trey Ideker, Associate Professor, Bioengineering	UCSD	Establishing CI Capable of Capture and Analysis of Next-Generation Sequencing Data	tideker@ucsd.edu	Under Review
Ken Dill, Professor of Biophysics and Associate Dean of Research	UCSF	Physics-Based Protein Structure Prediction	dill@maxwell.compbio.ucsf.edu	Selected
Gary Grider, Director of Institute for Scalable Scientific Data Management; Scott Brandt, Professor, Computer Science Department	LANL/UCSC	Connected Data Castles	ggrider@lanl.gov	Under Review
Gary Grider, Director of Institute for Scalable Scientific Data Management	LANL	Distributing High End Visualization to the Desktop	ggrider@lanl.gov	Under Review
Adam Arkin, Dylan Chivian, Paramvir Dehal, Paul Adams, LBNL Physical Biosciences Division, Department of Bioengineering UCB	LBNL/UCB	Speeding the Annotation and Analysis of Genomic Data for Biofuels and Biology Research	APArkin@lbl.gov	Selected
Bill Collins, Senior Scientist, Earth Sciences Division, LBNL and Professor in residence, Earth and Planetary Science, UCB	LBNL/UCB	Application of Community Climate System Model (CCSM) to study the interactions of new biofuels with carbon cycles; to understand the methane cycle and its implications for global warming; to quantify the role of cloud feedbacks in the climate system; and to understand the multi-scale interactions in the hydrological cycle.	WDCollins@lbl.gov	Selected

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Steven Louie, Faculty Senior Scientist, Materials Sciences Division, LBNL, and Professor, Department of Physics, UCB; Jeffrey Neaton, Staff Scientist, Molecular Foundry, Materials Sciences Division, LBNL	LBNL/UCB	Research in the physics of real materials at the most fundamental level using atomistic first principles (or ab initio) quantum-mechanical calculations.	SSLouie@lbl.gov	Selected
Martin White, Faculty Senior Staff, Physics Division, LBNL and Professor of Physics and Astronomy, UCB; David Schlegel, Physics Division, LBNL	LBNL/UCB	Universe-Scale Simulations for Dark Energy Experiments	MJWhite@lbl.gov	Selected