



ASCAC charge to review the Computational Science Graduate Fellowship Program

September 26, 2024

*Charge to ASCAC from Director, Office of Science
Examine the effectiveness and impact of CSGF and the quality and
breadth of the program over the past decade.*



- Does CSGF provide students with an effective and impactful program of appropriate quality and breadth?
- Is there a unique role for CSGF in the landscape of federal graduate fellowship programs?
- Is the program attracting diverse applicants and making awards to diverse cohorts?
- How can CSGF reach a broader applicant pool?
- Is the program appropriately tailored to support the computational scientist workforce needed at the DOE laboratories?
- What is the most effective governance model for the program?
- How should the CSGF evolve to ensure the best experience for students?
- Is the program appropriately supporting students at institutions historically underrepresented in the federal research landscape?

ASCAC Subcommittee Members (GSCF)

Irene Qualters (ASCAC) LANL (retired), Chair	Valerie Taylor (ASCAC), ANL, Co-Chair Director of the Math and Computer Science Division
Tina Brower-Thomas (ASCAC), Howard University College of Engineering and Architecture The Graduate School	Barney Maccabe, University of Arizona Executive Director, Institute for the Future of Data and Computation
Susan Gregurick (ASCAC), NIH Associate Director for Data Science and Director of the Office of Data Science Strategy	Prasanna Balaprakash, ORNL Director of AI Programs and Distinguished R&D Staff Scientist
Mark Segal (NSA) Deputy Director of the Research Directorate	Jen Gaudio, SNL Director, Center for Computing Research
Stefan Wild (LBL) Division Director & Senior Scientist Applied Mathematics and Computational Research	David Torres (ASCAC), Northern New Mexico College Chair, Mathematics and Physical Sciences

CSGF is supported by DOE Office of Science (ASCR) and NNSA (ASC)

PI: Shelly Olsan, Krell Institute, President

Co- PIs: David Brown, LBNL (retired) founding member of the Steering Committee of CSGF, Jeff Hittinger, LLNL, Director for Center for Applied Scientific Computing



- To help ensure an adequate supply of scientists and engineers appropriately trained to meet national workforce needs, including those of the DOE, in computational sciences.
- To raise the visibility of careers in the computational sciences and to encourage talented students to pursue such careers, thus building the next generation of leaders in the field.
- To provide practical work experiences for the fellows that allows them to encounter the cross-disciplinary, team-based, scientific research environment of the DOE National Laboratories.
- To strengthen collaborative ties between the academic community and DOE National Laboratories so the fellowship's multidisciplinary nature builds the national community of scientists.

Current Status

- Established subgroups for each of charge question
- Organized a Google drive of important documents, including longitudinal report
- Met with CSGF Leadership on Friday, September 13
 - Shelly Olsan/Krell, David Brown/LBL, Jeff Hittinger/LLNL
 - Provided follow-up questions
- Met with DOE CSGF PMs on Friday, September 20
 - David Etim/NNSA, David Rabson/ASCR, Christine Chalk/ASCR
- Currently focused on information synthesis and identifying additional information needed for each charge question