

WBS 2.1.4 Broadening Participation

Mission Statement

Broadening Participation will engage under-represented minority researchers from domains and institutions that are not traditional users of advanced computing. Our target audience ranges from potential users with no computational experience to computationally savvy researchers, educators, Campus Champions, and administrators that will promote change at their institutions for increased use of advanced digital services for research and teaching.

Goals, Metrics, KPIs

Metrics

| Metric | Target | Subgoal |
|---|--------------|--|
| Number of new underrepresented individuals (women and racial/ethnic minorities) users | > 250/qtr | Deepen/Extend – Extending use to new communities (§3.1.2) |
| Number of sustained underrepresented individuals (women and racial/ethnic minorities) users | > 1,750 /yr | Deepen/Extend – Extending use to new communities (§3.1.2) |
| Number of underrepresented students benefiting from XSEDE resources and services through training, XSEDE projects, or conference attendance | > 650/qtr | Deepen/Extend — Prepare the current and next generation (§3.1.3) |
| Number of students benefiting from XSEDE resources and services through training, XSEDE projects, or conference attendance | > 2,000 /qtr | Deepen/Extend — Prepare the current and next generation (§3.1.3) |

KPIs

| KPI | Target |
|--|------------|
| # of new underrepresented individuals (women and racial/ethnic minorities) users | > 250/qtr |
| # of sustained underrepresented individuals (women and racial/ethnic minorities) users | > 1,750/yr |

Team Members

| Name | Institution | Position | Email |
|----------------|-------------|---|--|
| Linda Akli | SURA | L3 Manger | akli@sura.org |
| Rosalia Gomez | TACC | Student Programs Lead | rosie@tacc.utexas.edu |
| Sue Fratkin | TACC | ACSC Public Policy Fellow | sfratkin8@gmail.com |
| John Holly | SURA | Exhibiting, Training & Workshop Event Coordinator | jholly@sura.org |
| Dawn Hunter | TACC | ACSC Lead | dhunter@tacc.utexas.edu |
| Je'aime Powell | TACC | Hackathon Lead | jpowell@tacc.utexas.edu |
| Jaye Nias | SURA | ACSC Data Science Fellow | jnias@spelman.edu |

Communication & Meetings

Bi-weekly CEE-BP calls are Tuesdays @11:am eastern. Effective 2020, Broadening Participation and Workforce Development is a combined bi-weekly call.

<https://illinois.zoom.us/j/99070731207?pwd=TG5oZG9YeTNDUWd1YkxVYkhPOWFzd09>, Meeting ID: 990 7073 1207, Password: 139324

[Broadening Participation - Workforce Development Call Notes](#)

New Staff Orientation

1. [XSEDE New Staff Guide](#)
2. [Increasing Diversity in Hiring](#)
3. Professional Development
 - a. Attend XSEDE New User and Successful Allocations Proposal webinars at a minimum annually.
 - b. Attend other XSEDE training webinars as needed.
 - c. Participate in webinars on Inclusion in STEM offered by NSF Includes Coordination Hub, National Academy of Sciences, and others
4. Event Planning Process
 - a. Guide to Organizing Inclusive Scientific Meetings <https://500womenscientists.org/inclusive-scientific-meetings>
 - b. ACM Guide to Organizing Virtual Conferences <https://www.acm.org/virtual-conferences>, https://people.clarkson.edu/~jmatthew/acm/VirtualConferences_GuideToBestPractices_CURRENT.pdf
5. Under-Represented Minority, Institution Classifications, and Data Sets
 - a. The Carnegie Classification™ has been the leading framework for recognizing and describing institutional diversity in U.S. higher education for the past four and a half decades. <http://carnegieclassifications.iu.edu/downloads.php>
 - b. Individual look up of institutions - <https://nces.ed.gov/ipeds/datacenter/InstitutionByName.aspx?goToReportId=6>.
 - c. What is an HBCU? <https://sites.ed.gov/whhbcu/one-hundred-and-five-historically-black-colleges-and-universities/>
 - d. Definition of Hispanic-Serving Institutions <https://www2.ed.gov/programs/ideshsi/definition.html>
 - e. Tribal Colleges and Universities Profiles <http://www.aihec.org/who-we-serve/TCUroster-profiles.htm>
 - f. National Center for Education Statistics (NCES) Women, Minorities, and Persons with Disabilities in Science and Engineering 2017 Report <https://nsf.gov/statistics/2017/nsf17310/digest/introduction/>
 - g. National Center for Education Statistics (NCES) Persistence, Retention, and Attainment of 2011–12 First-Time Beginning Postsecondary Students as of Spring 2017 <https://nces.ed.gov/pubs2019/2019401.pdf>
6. Research Reports
 - a. Alumni of Tribal Colleges Better Their Communities, Gallup Poll and American Indian Fund, 2019, [Alumni of Tribal Colleges and Universities Better Their Communities.pdf](#)
 - b. White House Initiative on Historically Black Colleges and Universities 2019 Federal Agencies Priorities Briefing, <https://sites.ed.gov/whhbcu/files/2019/07/Federal-Agency-Priorities-Brief-2019.pdf>
 - c. Increasing Women and Underrepresented Minorities in Computing: The Landscape and What You Can Do, IEEE Computer, 2019, [mco2018100024.pdf](#)
 - d. What Would it Take to overcome the damaging effects of structural racism and ensure a more equitable future, Urban Institute, 2019.05.12_Next50 structural racism_finalized (1).pdf
 - e. 2019 Fact Sheet, Hispanic Higher Education and HSIs, Hispanic Association of Colleges and Universities, 2018_HSI_FactSheet.pdf
 - f. Playbook on Best Practices: Gender Equality in Tech, 2018_HSI_FactSheet.pdf
 - g. Evidence-based Strategies for Improving Equity and Inclusion of Individuals in Underrepresented Racial and Ethnic Groups <https://documentcloud.adobe.com/link/track/?pageNum=1&uri=urn%3Aaaid%3Aascds%3AUS%3Ad07c699f-0ee3-4365-8461-732dbc8a4b89#pageNum=1>

Schedule

| When | What | Where | Who |
|---|---|-------------------------------|--|
| 05 Mar 2021 | Intro to HPC (Presentation to Class) | Macalester College | Cahill |
| 03/25-3/27/2021 | Association of Computer and Information Science/Engineering Departments at Minority Institutions (ADMI) Symposium 2021 - Machine Learning and Beyond | Virtual | Powell |
| 15 Apr 2021 | XSEDE New User Training (Webinar) | University of Central Florida | Alameda, Akli, Mehringer |
| 04/26-04/29/2021 | National Summit for Educational Equity | Virtual | Akli, Cahill |
| 05/24-05/27/2021 | IEEE RESPECT Conference | Virtual | Akli, Cahill, Gomez |
| 05/27/2021 | Introduction to Computational Thinking Across the Curriculum | Virtual | Panoff, Weeden |
| 6/7–6/15/2021 | Computational Chemistry for Educators | Virtual | Cahill |
| 6/15-6/16/2021 | Introduction to Computational Thinking Across the Curriculum: Modeling with Spreadsheets and Web Resources | Virtual | Panoff, Weeden |
| 6/17/2021 | General New User Training | Virtual | Maiden (Mehringer) |
| 6/17-6/18/2021 | Advanced Computing for Social Change Curriculum Workshop | Virtual | Akli, Alameda, Cahill, Holly, Nias, Williams |
| 6/21/2021 | Intro to XSEDE (Workshop focused on expanding high performance computing opportunities within the consortium of liberal arts colleges in the Midwest) | Virtual | Mehringer |
| 6/22-6/23/2021 | Introduction to Computational Thinking Across the Curriculum: Systems Modeling | Virtual | Panoff, Weeden |
| 6/29-6/30/2021 (postponed to October 6 and 13) | Introduction to Computational Thinking Across the Curriculum: Agent-based Modeling (postponed to October 6 and 13) | Virtual | Panoff, Weeden |
| 7/12–7/13/2021 | Advanced Computing for Social Change Curriculum Workshop for AUCC | Virtual | Akli, Alameda, Cahill, Holly, Williams |
| 07/17-07/19/2021 | HPC in the City Hackathon | Virtual | Holly, Powell |
| 07/19-07/30/2021 | International HPC Summer School | Virtual | Alameda |
| 07/18-07/22/2021 | PEARC21 - HPC in the City Hackathon | Virtual | Cahill, Powell, Weeden |

| | | | |
|----------------------|--|-----------------------|--------------------------------------|
| 09/15-09/17/2021 | ACM Tapia Celebration of Diversity in Computing | Virtual | TBD |
| 09/27-09/29/2021 | vGHC2021 | Virtual | TBD |
| 10/6 and 10/13 /2021 | Introduction to Computational Thinking Across the Curriculum: Agent-based Modeling | Virtual | Panoff, Weeden |
| 10/28 - 10/30/2021 | SACNAS National Conference | Kansas City, MO | TBD |
| 11/14 - 11/19/2021 | SC21 - Computing4Change, HPC in the City Hackathon | hybrid, St. Louis, MO | Akli, Fratkin, Gomez, Hunter, Powell |

Campus Visits PY10 - None due to COVID related travel restrictions.

[Campus Visits Prior to PY10/PY11](#)

[Conference Participation Prior to PY10/PY11](#)