

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
1	25687	In the Business of Innovation: Development of a Canvas Tool to Promote and Sustain Pedagogical Risk Taking by Faculty	NSF Grantees Poster Session	Poster Session	Abhyankar	Rohini	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
2	26857	Preliminary Findings on Students' Beliefs about Intelligence	NSF Grantees Poster Session	Poster Session	Adams	Allison	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
3	25827	Engineering Technology Scholars â€” IMPROving Retention and Student Success (ETS-IMPRESS) - First Year Progress Report	NSF Grantees Poster Session	Poster Session	Alaraje	Nasser	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
4	25402	Leveraging undergraduate curriculum reform to impact graduate education: a case study	NSF Grantees Poster Session	Poster Session	Amos	Jennifer	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
5	25160	Collaborative Research: Experiential Process Safety Training for Chemical Engineers	NSF Grantees Poster Session	Poster Session	Anastasio	Daniel	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
6	27194	A Program to Improve Manufacturing Learning Using Simulation and Automation	NSF Grantees Poster Session	Poster Session	Aqlan	Faisal	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
7	25742	Partnership for Equity: Cultivating Inclusive Professional Identities for Engineers and Computer Scientists across Four Unique Institutional Climates	NSF Grantees Poster Session	Poster Session	Atadero	Rebecca	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
8	24865	Aligning A.S. Manufacturing/Engineering Curriculum to Industry Needs	NSF Grantees Poster Session	Poster Session	Barger	Marilyn	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
9	27186	Measuring Change: Research Updates Helping Engineering Students Tackle Complex, Sustainability Problems	NSF Grantees Poster Session	Poster Session	Barrella	Elise	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
10	25645	REU Site: Sustainability of Horizontal Civil Networks in Rural Areas	NSF Grantees Poster Session	Poster Session	Bartelt-Hunt	Shannon	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
11	24790	Predicting At-Risk Students in a Circuit Analysis Course Using Supervised Machine Learning	NSF Grantees Poster Session	Poster Session	Becker	James	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
12	25962	CAREER: Characterizing Latent Diversity Among a National Sample of First-Year Engineering Students	NSF Grantees Poster Session	Poster Session	Benedict	Brianna	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
13	25036	Investigating the Formation of Engineers and the Future Professoriate: Linking Writing Approaches and Attitudes to Doctoral Socialization, Persistence, and Attrition	NSF Grantees Poster Session	Poster Session	Berdanier	Catherine	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
14	27418	Social Networks Analysis of African American Engineering Students at a PWI and an HBCU â€” A Comparative Study	NSF Grantees Poster Session	Poster Session	Berhan	Lesley	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
15	25974	Understanding Ambiguity in Engineering Problem Solving	NSF Grantees Poster Session	Poster Session	Berry	Marah	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
16	25340	REU Site in UAV Technologies: Assessment of the Program after the Second Year	NSF Grantees Poster Session	Poster Session	Bhandari	Subodh	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
17	25375	Teaching STEM undergraduates discipline-specific writing skills: a data-driven learning approach	NSF Grantees Poster Session	Poster Session	Boettger	Ryan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
18	26458	The Impact of Functional Modeling in an Engineering Design Curriculum	NSF Grantees Poster Session	Poster Session	Bohm	Matt	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
19	25463	The Impact of a Research Experiences for Teachers Program in Precision Agriculture and Sustainability for Rural STEM Educators	NSF Grantees Poster Session	Poster Session	Bowen	Bradley	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
20	26089	STEM Bridge Program Participation Predicts First and Second Semester Math Performance	NSF Grantees Poster Session	Poster Session	Bradford	Brittany	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
21	24806	Representation of Engineering Concepts in Academic and Engineering Workplace Settings: How situated are engineering concepts in these contexts?	NSF Grantees Poster Session	Poster Session	Brown	Shane	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
22	25120	Systemic Transformation of Evidence-based Education Reform (STEER)	NSF Grantees Poster Session	Poster Session	Campbell	Scott	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
23	25121	RET in Functional Materials and Manufacturing	NSF Grantees Poster Session	Poster Session	Campbell	Scott	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
24	27724	Promoting the Participation of Elementary School African Americans, Hispanics, and Girls in STEM by Expanding Summer Engineering Experiences	NSF Grantees Poster Session	Poster Session	Cardella	Monica	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
25	27351	Informing Replication of the Bowman Creek Educational Ecosystem Pilot	NSF Grantees Poster Session	Poster Session	Carlos	Juan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
26	25514	What features of the Problem Solving Studio most impact the students' experience?	NSF Grantees Poster Session	Poster Session	Carrion	Carmen	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
27	27071	Using an Immersive Classroom Simulated Environment for Math and Science Discourse Development in Pre-service Teachers	NSF Grantees Poster Session	Poster Session	Castles	Ricky	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
28	25739	Progress on a mixed methods research project studying interest and identity of participants engaged in engineering camp activities: methods and preliminary results	NSF Grantees Poster Session	Poster Session	Chatterjee	Indira	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
29	25807	Initial Qualitative Exploration into First-Year Engineering Community and Identity	NSF Grantees Poster Session	Poster Session	Clark	Abigail	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
30	24800	Sustainable bridges from campus to campus: Outcomes for two cohorts of Jump Start second-year bridge participants (#1525367)	NSF Grantees Poster Session	Poster Session	Cohan	Catherine	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
31	26725	Engineering with Engineers: Revolutionizing a Mechanical Engineering Department through Industry Immersion and a Focus on Identity	NSF Grantees Poster Session	Poster Session	Cook	Kathleen	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
32	27721	Preliminary Findings: RIEF - Understanding pedagogically motivating factors for under-represented and non-traditional students in online engineering learning modules	NSF Grantees Poster Session	Poster Session	Cook-Chennault	Kimberly	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
33	26423	Persistence of First Year Engineering Majors with a Design-Based Chemistry Laboratory Curriculum In- and Out-of-Sequence	NSF Grantees Poster Session	Poster Session	Crippen	Kent	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
34	25278	Use of Big Data Analytics in a First Year Engineering Project	NSF Grantees Poster Session	Poster Session	Dahm	Kevin	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
35	27005	An Integrated Program for Recruitment, Retention, and Graduation of Academically Talented Low-Income Engineering Students	NSF Grantees Poster Session	Poster Session	Darabi	Houshang	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
36	25100	Evaluating the Long-Term Impact of Pre-College Computing Education Phase 1 Overview	NSF Grantees Poster Session	Poster Session	Decker	Adrienne	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
37	26933	Developing Subgoal Labels for Imperative Programming to Improve Student Learning Outcomes	NSF Grantees Poster Session	Poster Session	Decker	Adrienne	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
38	26880	Methods and Outcomes of the NSF Project on Synthesizing Environments for Digitally-Mediated Team Learning	NSF Grantees Poster Session	Poster Session	DeMara	Ronald	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
39	26409	The In/Authentic Experiences of Black Engineers	NSF Grantees Poster Session	Poster Session	Dietz	Gretchen	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
40	26988	Developing a Culturally Adaptive Pathway to Success	NSF Grantees Poster Session	Poster Session	Dong	Jianyu	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
41	27707	Developing Summer Research Programs at an NSF ERC: Activities, Assessment, and Adaptation	NSF Grantees Poster Session	Poster Session	Drummond	Maeve	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
42	25591	Integrating Undergraduate Research Across Disciplines: Supporting an Externally Collaborative Project-Based Interdisciplinary Culture (EPIC) for Learning using Trace Metal Analysis	NSF Grantees Poster Session	Poster Session	Duggan	John	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
43	26180	Designing Boosters and Recognition to Promote a Growth Mindset in Programming Activities	NSF Grantees Poster Session	Poster Session	Edwards	Stephen	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
44	27672	Engineering Design in Scientific Inquiry	NSF Grantees Poster Session	Poster Session	Elliott	Leslie	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
45	27239	Physics Innovation and Entrepreneurship (PIE) Introduced into the First-year Physics Course	NSF Grantees Poster Session	Poster Session	Ernst	Ann	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
46	25899	The Mentoring Network of K-5 Educators and Engineering Researchers in an RET	NSF Grantees Poster Session	Poster Session	Evans	Gayle	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
47	25749	Year 2 of an S-STEM Summer Scholarship for a Sophomore Bridge Program	NSF Grantees Poster Session	Poster Session	Evans	Katie	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
48	26551	Dynamics of Researcher Identity and Epistemology: The Development of a Grounded-Theory Model	NSF Grantees Poster Session	Poster Session	Faber	Courtney	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
49	24600	Enhancing Student Active Learning via Concept Mapping in an Undergraduate Engineering Course	NSF Grantees Poster Session	Poster Session	Fang	Ning	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
50	25663	LGBTQ+ Advocacy in STEM: Impact Stories from Community of Practice	NSF Grantees Poster Session	Poster Session	Farrell	Stephanie	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
51	26316	Mathematical Maturity for Engineering Students	NSF Grantees Poster Session	Poster Session	Faulkner	Brian	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
52	25652	The Fidget Carâ€™ Outcomes from Small Group Learning Activities in Systems and Controls Courses	NSF Grantees Poster Session	Poster Session	Feinauer	David	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
53	26137	Program to Integrate Mobile, Hands-On Experiments into the ME, AE, and ECE curriculum	NSF Grantees Poster Session	Poster Session	Ferri	Aldo	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
54	26105	Revolutionizing an Engineering Department Through Diversity and Inclusion	NSF Grantees Poster Session	Poster Session	Forin	Tiago	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
55	24796	WIP: Collective Argumentation: Integration of Coding into Mathematics and Science Learning	NSF Grantees Poster Session	Poster Session	Foutz	Tim	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
56	26947	Assessing Interest and Appeal of Engineering in a High School Program Designed to Enhance Entry into Engineering in an INCLUDES project	NSF Grantees Poster Session	Poster Session	Ganesh	Tirupalavanam	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
57	25992	Identifying and Disseminating Transformative Professional Development of STEM Undergraduates Who Perform Outreach: Progress in Year 1	NSF Grantees Poster Session	Poster Session	Garner	Joanna	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
58	26899	Need-Based Scholarship Program: Who is applying, who is successful, and who is not applying?	NSF Grantees Poster Session	Poster Session	Gartner	Jacqueline	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
59	26832	Coevolutionary-Aided Teaching: Leveraging the Links Between Coevolutionary and Educational Dynamics	NSF Grantees Poster Session	Poster Session	Gaspar	Alessio	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
60	27368	PeerLogic: Web Services for Peer Assessment	NSF Grantees Poster Session	Poster Session	Gehring	Edward	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
61	26518	Insights from the first two years of a project partnering middle school teachers with industry to bring engineering to the science classroom	NSF Grantees Poster Session	Poster Session	Gillen	Andrew	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
62	26571	Institutional Change Efforts to Improve the Environment for Both Instructors and Students in Foundational Engineering Courses	NSF Grantees Poster Session	Poster Session	Grohs	Jacob	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
63	24970	How Problem Solving skills develop: Studying Metacognition in a PBL Engineering Curriculum	NSF Grantees Poster Session	Poster Session	Hacker	Douglas	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
64	25538	NSF S-STEM Southern Illinois Energy Scholarship Program	NSF Grantees Poster Session	Poster Session	Harackiewicz	Frances	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
65	26788	Changing Homework Achievement with Mechanix Pedagogy	NSF Grantees Poster Session	Poster Session	Hilton	Ethan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
66	25067	Reimagining Energy Year 1: Identifying Non-Canonical Examples of Energy in Engineering	NSF Grantees Poster Session	Poster Session	Hoople	Gordon	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
67	27026	Shame in Engineering: Unpacking the Expectations that Students Co-Construct and Live Within	NSF Grantees Poster Session	Poster Session	Huff	James	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
68	26927	Problem-Solving Rationales of Practicing Transportation and Hydraulic Engineers When Provided Multiple Contextual Representations	NSF Grantees Poster Session	Poster Session	Hurwitz	David	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
69	27251	Integrating Computational Thinking, Engineering Design, and Environmental Science through Smart Greenhouses	NSF Grantees Poster Session	Poster Session	Jackson	David	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
70	25399	Impact of "Algae Grows the Future" Project on Promoting Engineering	NSF Grantees Poster Session	Poster Session	Jahan	Kauser	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
71	27668	The Computer Science Professionals Hatchery	NSF Grantees Poster Session	Poster Session	Jain	Amit	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
72	25153	Impact on Retention: Integrating Introduction to Engineering Concepts into a Freshman University Seminar Experience	NSF Grantees Poster Session	Poster Session	Jennings	Madeleine	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
73	26620	Student Perceptions of Engineering Stress Culture	NSF Grantees Poster Session	Poster Session	Jensen	Karin	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
74	24735	Development and Implementation of an NSF REU Site with Integrated Academia-Industry Research Experience for Undergraduates	NSF Grantees Poster Session	Poster Session	Jiang	Zhaoshuo	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
75	25468	Instructor Use of Movable Furniture and Technology in Flexible Classroom Spaces	NSF Grantees Poster Session	Poster Session	Johnson	Aaron	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
76	25214	Bridging the Workforce Skills Gap in High Value Manufacturing through Continuing Education	NSF Grantees Poster Session	Poster Session	Johnson	Michael	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
77	25041	Visual representations guide students' use of conceptual knowledge and problem-solving strategies	NSF Grantees Poster Session	Poster Session	Johnson-Glauch	Nicole	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
78	27190	Establishing a Pathway to Completion for Pursuing Engineering and Engineering Technology Degrees through a Scholarship Program at Old Dominion University	NSF Grantees Poster Session	Poster Session	Jovanovic	Vukica	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
79	26936	Experience from S-STEM project: Engaging undergraduate STEM students with prototype development projects	NSF Grantees Poster Session	Poster Session	Kassu	Aschalew	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
80	24804	Integrating adaptive learning lessons in a flipped STEM course: development, learning gains, and data analytics	NSF Grantees Poster Session	Poster Session	Kaw	Autar	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
81	25286	Gatekeepers to Broadening Participation in Engineering: Variation in Postsecondary Engineering-Going across Virginia's High Schools	NSF Grantees Poster Session	Poster Session	Knight	David	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
82	26869	Sustaining change: Embedding research outcomes into School practices, policies and norms	NSF Grantees Poster Session	Poster Session	Koretsky	Milo	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
83	25840	Materials Science and Engineering Research Perspective within the Functional Materials and Manufacturing Institute REU Program at University of South Florida	NSF Grantees Poster Session	Poster Session	Kuhn	John	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
84	25609	Associations between Veteran and Non-Veteran Student Perceptions of Social Responsibility	NSF Grantees Poster Session	Poster Session	Kulesza	Stacey	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
85	26852	Engineering Prosocial Engagement in Electrical & Computer Engineering	NSF Grantees Poster Session	Poster Session	LaMeres	Brock	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
86	26618	Using Improvisational Acting Techniques to Improve the Oral Communication Skills of STEM Graduate Students	NSF Grantees Poster Session	Poster Session	LaMeres	Brock	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
87	25850	Design Process Geometries: Shapes and Learning Trajectories of Engineering Students' Design Process Concept Maps	NSF Grantees Poster Session	Poster Session	Lande	Micah	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
88	26358	Support Remote Collaboration in Virtual Computer Labs	NSF Grantees Poster Session	Poster Session	Le	Hai	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
89	25542	Broadening Participation in Engineering by Enhancing Community College to University Partnerships: Findings from a Tri-Institutional NSF Grant Partnership	NSF Grantees Poster Session	Poster Session	Lee	Walter	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
90	24914	EAGER: Measuring Student Support in STEM: Insights from Year 2	NSF Grantees Poster Session	Poster Session	Lee	Walter	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
91	25581	Research Initiation: A Study on the Intersection of Race and Gender on Leadership Formation of Engineering Students	NSF Grantees Poster Session	Poster Session	Lilley	C	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
92	26589	Using Mixed Reality and the Three Apprenticeships Framework to Design Head-, Hand- and Heart-focused Learning Experiences for Civil Engineering Students	NSF Grantees Poster Session	Poster Session	London	Jeremi	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
93	24830	Toward a National Agenda for Broadening Participation of African Americans in Engineering and Computer Science: A Systematic Review of Workforce Barriers	NSF Grantees Poster Session	Poster Session	London	Jeremi	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
94	25442	Military Veteran Students' Pathways in Engineering Education (Year 5)	NSF Grantees Poster Session	Poster Session	Lord	Susan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
95	25689	Expanding Access to and Participation in MIDFIELD (Year 3)	NSF Grantees Poster Session	Poster Session	Lord	Susan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
96	26507	Designing a Middle Grades Spatial Skills Curriculum in Minecraft	NSF Grantees Poster Session	Poster Session	Lux	Nick	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
97	25629	Is postdoctoral training linked to faculty careers and higher salaries among engineering PhDs?	NSF Grantees Poster Session	Poster Session	Main	Joyce	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
98	26177	Validity Evidence for the SUCCESS Survey: Measuring Non-Cognitive and Affective Traits of Engineering and Computing Students (Part II)	NSF Grantees Poster Session	Poster Session	Major	Justin	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
99	25813	Assessing the Results of an Additive Manufacturing Course at Three Large Universities on Undergraduates and High School Students	NSF Grantees Poster Session	Poster Session	MALONEY	PATRICIA	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
100	25132	Work in Progress: Developing a Body of Knowledge to Illustrate Advanced Manufacturing Competency and Identity	NSF Grantees Poster Session	Poster Session	Mardis	Marcia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
101	25299	Assessing Educational Pathways for Manufacturing in Rural Communities: An Investigation of New and Existing Programs in Northwest Florida	NSF Grantees Poster Session	Poster Session	Mardis	Marcia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
102	27156	Exploring Professional Identity Formation in Undergraduate Civil Engineering Students Who Experience Disabilities: Establishing Definitions of Self	NSF Grantees Poster Session	Poster Session	McCall	Cassandra	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
103	25852	EAGER: Barriers to Participation in Intensive Professional Development Opportunities	NSF Grantees Poster Session	Poster Session	McCord	Rachel	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
104	27460	Asset-Based Practices in Engineering Design (APRENDE): Development of a Funds of Knowledge Approach for the Formation of Engineers	NSF Grantees Poster Session	Poster Session	Mejia	Joel	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
105	27696	Exploring Enculturation in the First-Year Engineering Program (Year III)	NSF Grantees Poster Session	Poster Session	Mendoza Diaz	Noemi	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
106	27065	Quantitative and Qualitative Assessment of Large-Scale Interventions in a First-Year Experience Program	NSF Grantees Poster Session	Poster Session	Menezes	Gustavo	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
107	24797	Explaining Choice, Persistence, and Attrition of Black Students in Electrical, Computer, and Mechanical Engineering: Award# EEC-1734347 - Year 1	NSF Grantees Poster Session	Poster Session	Mobley	Catherine	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
108	26592	Evaluation of collaborative REU exploring the energy spectrum from body-heat harvesting to smart grid technology	NSF Grantees Poster Session	Poster Session	Morin	Megan	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
109	25612	Retention-Focused, S-STEM Supported Program	NSF Grantees Poster Session	Poster Session	Morris	Melissa	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
110	25284	Defining and Assessing Systems Thinking in Diverse Engineering Populations	NSF Grantees Poster Session	Poster Session	Mosyjowski	Erika	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
111	26881	Gateways-ND: Building the Institutional Infrastructure towards Viable Postsecondary STEM Education Reform	NSF Grantees Poster Session	Poster Session	Motschenbacher	Jill	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
112	26198	Contextualizing Learning: Exploring the Complex Cultural System of Learning in Engineering Makerspaces	NSF Grantees Poster Session	Poster Session	Nagel	Robert	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
113	25216	Evidence-based Resources that Scaffold Students in Performing Bio-inspired Design	NSF Grantees Poster Session	Poster Session	Nagel	Jacquelyn	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
114	26471	Undergraduate Engineering Retention and Enrichment through Implementation of an NSF IUSE Project in an Underrepresented Hispanic Serving Institution	NSF Grantees Poster Session	Poster Session	Nandy	Ashis	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
115	25249	Preparing Next Generation of Manufacturing Leaders: A Case of REU Site in Cybermanufacturing	NSF Grantees Poster Session	Poster Session	Nepal	Bimal	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
116	27227	Assessing complexity leadership theory (CLT) as a change model for inculcating a shared vision and fostering transformation in an engineering department	NSF Grantees Poster Session	Poster Session	Ogle	Jennifer	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
117	26111	Optimizing Student Team Skill Development using Evidence-Based Strategies: Year 4 NSF Award 1431694	NSF Grantees Poster Session	Poster Session	Ohland	Matthew	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
118	26636	Developing Changemaking Engineers â€œ Year Four	NSF Grantees Poster Session	Poster Session	Olson	Rick	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
119	25951	Empowering Students to be Adaptive Decision-Makers: Progress and Directions	NSF Grantees Poster Session	Poster Session	Orr	Marisa	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
120	26520	Understanding How First-Year Engineering Students Create Effective, Collaborative, and Inclusive Teams	NSF Grantees Poster Session	Poster Session	Pearson	Nelson	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
121	26568	Exploring Hypotheses Regarding Engineering Graduate Studentsâ€™ Identities, Motivations, and Experiences: The GRADs Project	NSF Grantees Poster Session	Poster Session	Perkins	Heather	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
122	25232	Disciplinary Migration of Engineering Master's Students: Why do Some Students Change their Majors and Others do Not?	NSF Grantees Poster Session	Poster Session	Peters	Diane	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
123	26217	What can we learn from a Research Experiences for Teachers (RET) site? Three perspectives on Big Data and Data Science	NSF Grantees Poster Session	Poster Session	Philipp	Stephanie	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
124	27067	Infusing STEM Courses with Problem-Based Learning about Transportation Disruptive Technologies	NSF Grantees Poster Session	Poster Session	Pierce	Charles	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
125	25707	Exploring the impact of university engineering role models on elementary students (NSF ITEST Project)	NSF Grantees Poster Session	Poster Session	Portsmore	Merredith	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
126	27253	A Nine Year Study of the Impact of Middle and High School Teachersâ€™ Participation in Research Experiences for Teachers Programs: Connections Between Teacher Performance and Student Achievement	NSF Grantees Poster Session	Poster Session	Ragusa	Gisele	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
127	27276	Student Persistence and University Transitions in STEM Majors: Community College Studentsâ€™ Challenges and Successes	NSF Grantees Poster Session	Poster Session	Ragusa	Gisele	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
128	25677	Understanding Global Environment for Network Innovations (GENI) and Software-Defined Networking (SDN) for Computer Networking and Security Education	NSF Grantees Poster Session	Poster Session	Rahouti	Mohamed	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
129	25679	Facilitation of Cybersecurity Learning Through Real-World Hands-On Labs	NSF Grantees Poster Session	Poster Session	Rahouti	Mohamed	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
130	25851	NSF S-STEM: Transfer Success Co-Design for Engineering Disciplines (TranSCeND)	NSF Grantees Poster Session	Poster Session	Retherford	Jennifer	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
131	26478	Nationwide Dissemination and Critical Assessment of Low-Cost Desktop Learning Modules for Engineering: A Systematic, Supported Approach	NSF Grantees Poster Session	Poster Session	Reynolds	Olivia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
132	27140	Impact of a Research Experience Program in Aerospace Engineering on Undergraduate Students: Year Two	NSF Grantees Poster Session	Poster Session	Richard	Jacques	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
133	25240	Scaling and Assessment of an Evidence-Based Faculty Development Program for Promoting Active Learning Pedagogical Strategies	NSF Grantees Poster Session	Poster Session	Ross	Lydia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
134	26416	Engineering Education Using Inexpensive Drones	NSF Grantees Poster Session	Poster Session	Russell	Randy	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
135	26652	DIY Classroom Observations: A Toolkit for Novice Classroom Observers	NSF Grantees Poster Session	Poster Session	Sandoval	Carolyn	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
136	26616	Resources for Faculty Development: Implicit Bias, Deficit Thinking, and Active Learning	NSF Grantees Poster Session	Poster Session	Sandoval	Carolyn	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
137	27162	Critical Thinking Skills in Non-Calculus Ready First Year Engineering Students	NSF Grantees Poster Session	Poster Session	Santiago	Lizzie	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
138	27427	Understanding Academic Makerspaces through a Longitudinal Study at Three Universities	NSF Grantees Poster Session	Poster Session	Sawchuk	Timothy	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
139	25075	Engineering Leadership Identity: A Qualitative Approach to Understand the Intersection of Engineering and Leadership Identities	NSF Grantees Poster Session	Poster Session	Schell	William	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
140	25732	FOUNDATIONS â€” Integrating Evidence-based Teaching and Learning Practices into the Core Engineering Curriculum	NSF Grantees Poster Session	Poster Session	Sheppard	Keith	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
141	27507	Engineering Identity as a Predictor of Undergraduate Studentsâ€™ Persistence in Engineering	NSF Grantees Poster Session	Poster Session	Shryock	Kristi	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
142	26595	Neurocognitive Evidence on the Impact of Topical Familiarity in Creative Outcomes	NSF Grantees Poster Session	Poster Session	Siddique	Zahed	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
143	25426	EAGER: Broadening Participation of First-Generation College Students in Engineering: Backgrounds, Experiences and Strategies for Success	NSF Grantees Poster Session	Poster Session	Smith	Jessica	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
144	26921	PRIME: Engaging STEM Undergraduates in Computer Science with Intelligent Tutoring Systems	NSF Grantees Poster Session	Poster Session	Smith	Peter	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
145	26515	Collaborative Research: Supporting Agency among Early Career Engineering Education Faculty in Diverse Institutional Contexts: Developing a Framework for Faculty Agency	NSF Grantees Poster Session	Poster Session	Smith-Orr	Courtney	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
146	25639	STEM Servingness at Hispanic Serving Institutions	NSF Grantees Poster Session	Poster Session	Subbian	Vignesh	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall

NSF GRANTEE POSTER SESSION

Board #	Paper ID	Title	Division	Session	Author Last		Code	Date	Starts	Ends	Location
					Name	Author First Name					
147	26299	Coulda, woulda, will I?: An experimental investigation of counterfactual thoughts and intention generation in engineering student success	NSF Grantees Poster Session	Poster Session	Summerville	Amy	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
148	25151	Facilitating Makerspace Adoption: Professional Development for University Faculty in Making Techniques and Pedagogy	NSF Grantees Poster Session	Poster Session	Talley	Kimberly	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
149	26569	Development of an Educational Wind Turbine Troubleshooting and Safety Simulator	NSF Grantees Poster Session	Poster Session	Toth	Kyle	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
150	24669	Effective Faculty Development – More than Time in the Seat	NSF Grantees Poster Session	Poster Session	Tyler-Wood	Louis	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
151	27081	Broadening the Participation of Rural Students in Engineering: Preliminary Findings on the Perspectives of Key Community Members	NSF Grantees Poster Session	Poster Session	Vaziri	Stacey	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
152	27708	Effect of evolving design requirements on students motivation	NSF Grantees Poster Session	Poster Session	Vernaza	Karina	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
153	27099	Continued Assessment of i-Newton for the Engaged Learning of Engineering Dynamics	NSF Grantees Poster Session	Poster Session	Vitali	Rachel	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
154	26242	Model-building in Engineering Education	NSF Grantees Poster Session	Poster Session	Walton	Tobin	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
155	26199	Engaging Secondary STEM Teachers in Automotive Engineering and Alternative Energy Research at a University Site	NSF Grantees Poster Session	Poster Session	Wang	Xia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
156	26324	Making Inspired by Nature: Engaging Preservice Elementary Teachers and Children in Maker-centered learning and Biomimicry	NSF Grantees Poster Session	Poster Session	Williams	Douglas	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
157	25547	Creating National Leadership Cohorts for Making Academic Change Happen: Sharing Lessons Learned Through RED Participatory Action Research (REDPAR) Tipsheets	NSF Grantees Poster Session	Poster Session	Williams	Julia	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
158	27430	Engagement Patterns across Race, Gender and Family Income in Engineering Classrooms	NSF Grantees Poster Session	Poster Session	Wilson	Denise	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
159	26130	Gender Differences in 7th Grade Students Interest in STEM After Participating in a Solenoid Instructional Unit	NSF Grantees Poster Session	Poster Session	Wood	Tandra	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall
160	26387	Resources and Partnerships for Community College Engineering and Technology Programs	NSF Grantees Poster Session	Poster Session	Wosczyzna-Birch	Karen	M386	Monday, June 17	9:45 AM	11:15 AM	Exhibit Hall