

NSF Grantees Poster Session
Posters are in Alphabetical Order by Title

Board #	ID	Title	Corresponding Author
183	41039	A Case Study of AFL Models on Factors of Engaged Learning in STEM education	Jing Yan
184	42453	A layered mentoring approach for engineering excellence	Kundan Nepal
185	42109	"Someone has invested in me to do this" Supporting Low-Income Students to Persist in STEM through a NSF S-STEM grant	Rachel Funk
186	42516	A Hands-On, Dual-Credit Mechatronics Pathway Overview for Secondary & Post-Secondary Educators	Karen Wosczyzna-Birch
187	43727	A Hybrid Community of Practice Model to Prepare Pre-Service STEM Teachers to Teach Engineering	Betsy Chesnutt
188	43077	A Legacy of Success: The High Achievers in STEM	Rahman Tashakkori
189	41861	A Mentor's Reflection on Challenges of Practice in a Scholarship Program for Lower-Income Computing Students	Stephen Secules
190	41041	A Mixed-Methods Study of Statistical Thinking in Engineering Practice	Zachary Riggins Del Rosario
191	43257	A Model for Engineering Education Professional Development for K-12 Science Teachers	Kathleen Ann Dinota
192	42095	A Support System for Low Income Students to Catalyze Diversity and Success	Kaitlin Mallouk
193	42302	Adaptive versus Faulty Adaptive Learning: The interplay between knowledge about task and self-regulation	Oenardi Lawanto
194	41557	Advancing Access, Diversity, Equity, and Inclusion in STEM for Minoritized Students through Faculty Professional Development	Pheather R Harris
195	43456	Amplifying Voices for Change: Exploring Faculty Insights on Student Audio Narratives through Focus Group Discussions	Cassandra McCall
196	43102	An "Inspiration Kit" for Building a Culture that Fosters Engineering Identity	Yen-Lin Han
197	41221	An exploration of how faculty advising influences doctoral student psychological safety and the impact on work related outcomes	Mark Vincent Huerta

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198	43451	An Innovation Themed National Science Foundation S-STEM Grant Program	Carol S Gattis
199	42865	An Overview of VADERS (Virtual/Augmented-Reality-based Discipline Exploration Rotations)	JaeHoon Ma
200	41101	Analyzing Immersive Simulation-based Learning Modules in Remote and In-Person Settings	Omar Ashour
201	41546	Assessing change in research perceptions following participation in an REU site focused on converting biological wastes into products of value	Brendan Higgins
202	42752	Assessing the Design of an AR-based Physics Exploratorium	Elizabeth Flynn
203	41243	Assuring Student Success in Engineering Technology Programs	Mohsen Ayoobi
204	41328	Barriers and Supports to Divergent Thinking in Engineering Problem Solving: An Engineering Student Project Experience	Shannon M Clancy
205	44249	Being Mentored and then Mentoring: A Four-Year Success Story with CISTAR and NSBE SEEK Partnering in an NSF-funded Research Experience and Mentoring (REM) Summer Program	Denise M. Driscoll
206	41361	Best Practices and Lessons Learned for Hiring Student Staff in An Academic Makerspace	Audrey Boklage
207	44100	Breaking Digital Barriers: Designing a Sociotechnical System for Remote Digital Assistance	Leo C. Ureel
208	41420	Breaking Through the Obstacles: Strategies and Support Helping Students Succeed in Computer Science	Jelena Trajkovic
209	42053	Bridging Language Barriers in Healthcare Education: An Approach for Intelligent Tutoring Systems with Code-Switching Adaptation	Zechun Cao
210	41646	Bringing Engineering Ethics Education into the High School Curriculum	Bimal P. Nepal
211	43019	Building a "Project-Based Learning for Rural Alabama STEM Middle School Teachers in Machine Learning and Robotics" RET Site (Year 2)	Xiaowen Gong
212	42034	Building a conceptual understanding of women STEM faculty's participation in entrepreneurship education programs	Prateek Shekhar

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213	42340	Building an AI Certificate and a Computing Identity: Broadening Participation in Computing & Artificial Intelligence at a Hispanic-serving Community College	Sarah Rodriguez
214	44230	Building an Understanding of Black Families Engineering, Design, and Inventive Practices	DeLean Tolbert Smith
215	44506	Building Capacity as an Engineering Education Researcher: First-Year Progress of an NSF ECR: BC SER Grant	Lizandra C Godwin
216	42111	Building Community for Inclusive Teaching: Can We Bridge the Valley of Neglect?	David C. Mays
217	43051	Building Interest in Technology Careers for High School Students	Karen Wosczyrna-Birch
218	41568	Building Student Success in Assistive Technology	Li Liu
219	41096	C6-LSAMP - Building Bridges to the Baccalaureate	Dominic J Dal Bello
220	41555	CAREER: "Support our Troops" Re-storying Student Veteran and Service Member Deficit in Engineering through Professional Formation and Community Advocacy: YEAR 3	Angela Minichiello
221	41070	CAREER: Disrupting the Status Quo Regarding Who Gets to be an Engineer -- Exploring the Intent-to-Impact Gap for Rectifying Inequity	Jeremi S London
222	42856	CAREER: Engineering in Youth-led Technology-rich Settings: Promoting Belonging and Preventing Harm	Isabella Stuopis
223	42777	CAREER: Exploring the Intersection of LGBTQ Identities and STEM Disciplines: A Qualitative Narrative Approach	Bryce E. Hughes
224	42447	Characterizing design activity engagement : Summary of insights from Year Two	Elliott Clement
225	42991	Collaborative Research: Research Initiation: Assessing Global Engagement Interventions to Advance Global Engineering Competence for Engineering Formation	Scott Schneider
226	41973	Collaborative Research: The Organizational Climate Challenge: Promoting the Retention of Students from Underrepresented Groups in Doctoral Engineering Programs: Year 1	Julie Aldridge
227	42680	Complementary affordances of virtual and physical laboratories for developing engineering epistemic practices	Milo Koretsky

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228	44533	Comprehending the Complex Context of Community Colleges: STEM Student Success at a Hispanic Serving Institution	Lucy Arellano
229	44223	Computational Thinking in the Formation of Engineers: Year 4	Noemi V Mendoza Diaz
230	42641	Contextualized Scaffolding for Engineering Faculty to Facilitate the Adoption of EBIPs	Shane A. Brown
231	41535	Contextualizing Engineering Science Courses by Teaching History and Judgement	Rachel Vitali
232	44087	Co-teaching in Undergraduate STEM Education: A strategy to enhance the learning and teaching environment in Math, Physics and Engineering Courses.	Michael Kagan
233	42486	Creating the Capacity for CS Education Researchers to Produce Research that is High-quality and Equity-Focused	Monica McGill
234	43741	Current Progress of providing Rich Immediate Critique of Antipatterns in Student Code	Leo C. Ureel
235	42584	Design and Implementation of a Professional Development Course for Interdisciplinary Computational Science Graduate Students	Satchi Venkataraman
236	43223	Design for Sustainability: How Mental Models of Social-Ecological Systems Shape Engineering Design Decisions	Andrew Katz
237	44260	Designing a Community of Transformation for Justice: A Design Case Capturing the Beginnings	Nadia N. Kellam
238	43758	Designing this space for whom? Characterization of Makerspace Non-users	Elisa Bravo
239	43507	Developing an Instructor's interface for FossilSketch application to provide knowledge-sharing collaborations between science educators	Anna Stepanova
240	43067	Developing Critically-Conscious Aerospace Engineers through Macroethics Curricula: Year 1	Aaron W. Johnson
241	41810	Developing PLC and Robotic Automation Technician Certificate Program for Service Industries	Shouling He
242	43090	Developing Valid and Equitable Tasks for Assessing Programming Proficiency: Linking Process Data to Assessment Characteristics	Mo Zhang

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243	41960	Development and validation of Learning through Making Instrument (LMI) project overview	Eric Holloway
244	42169	Do DEI Efforts Count in Tenure Evaluations? An Experiment in Two STEM fields	Damani White-Lewis
245	44023	Does Integrating Innovative Technologies into STEM Education Help Advance K-12 Students' STEM Career Outcomes? A Synthesis Study	Yue Li
246	41714	Early-Career Engineers' Experiences with Equity and Ethics in the Workplace	Rebecca A Atadero
247	43480	ECE-WisCom: Enhancing Student Performance and Persistence through a Wisdom Community	Hilda Cecilia Contreras Aguirre
248	43675	ECS Scholars Progress Report: Outcomes from a Data-Driven Support Strategy	Michael W. Thompson
249	41496	Effect of Carbon Nanomaterials on the Compressive Strength of Cement Mortar: Research at Marshall University's 2023 REU Site	Jennifer Lee Bow
250	42569	Electrical and Computer Engineering Canvas Applications to Improve Fundamental Math Skills in Pre-Calculus Math	Monika Neda
251	42188	Electricity Access and Sustainable Business Models Educators Workshop	Pritpal Singh
252	42064	Elementary Teacher Professional Learning in Equitable Engineering Pedagogies for Multilingual Students	Jessica E S Swenson
253	44361	Emerge Scholars Program: Increasing Enrollment in Engineering Technology	Garrett Powell Lee
254	42523	Emphasizing Broader Impacts and Societal Benefits in a Developing ERC	Gina Ristani
255	44118	Enabling In-Class Hands-On Electronics Opportunities through Flipped Classroom using Openly Available Videos	Jennifer Hasler
256	43055	Encouraging Low-Income, High Achieving Undergraduate Students to Pursue Faculty Positions: Developing Socially Conscious Approaches to Pedagogy	Yanfen Li
257	44529	Engineering BRIDGE Program to enhance transfer students' sense of belonging	Jeyoung Woo

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258	43273	Engineering Design Thinking in the Age of Generative Artificial Intelligence	Zhenghui Sha
259	44486	Engineering Faculty Member's Experience of Professional Shame: Summary of Insights from Year Three	James L. Huff
260	42348	Engineering identities in low-income students across their first year of college	Ryan Scott Hassler
261	41933	Engineering Technology, Anthropology, and Business: Reflections of Graduate Student Researchers in the Pursuit of Transdisciplinary Learning	Deana Lucas
262	41658	Enhancing Deep Knowledge Tracing via Diffusion Models for Personalized Adaptive Learning	Xishuang Dong
263	43508	Enhancing Hispanic Engineering Students' Psychosocial outcomes and Engineering persistence outcomes through a combination of Active Learning and Video Projects	Deepak Ganta
264	43377	Enhancing Sense of Belonging among Engineering and Artificial Intelligence Students: First Insights from the NSF S-STEM Grant in Community College	Fanny Silvestri
265	42186	Enhancing the Transfer Experience through a Collaborative Cohort Program: the Culmination of a 5-year NSF S-STEM Program at a Community College	Nihal Orfi
266	41470	Enhancing Transfer Pathways in Computing: An NSF Project Progress Report	Narges Norouzi
267	42423	Enhancing Urban Mobility: SmartSAT's Impact on Public Transportation Services and Commuting Experience	Jeong Yang
268	42205	Enhancing Zero-Shot Learning of Large Language Models for Early Forecasting of STEM Performance	Mohammad Rashedul Hasan
269	41505	Equity-focused Goals of Humanitarian Engineering Students: Addressing Systemic Oppression, Amplifying Community Cultural Wealth, Developing Social Justice Self-Efficacy, and Elucidating Career Concerns	Emma Sophie Stine
270	42662	Evaluating Implementation of Hands-on Learning Modules Considering Social Cognitive Theory	Riley Jackson Fosbre
271	41959	Evaluating the effect of multi-attempt digital assessments on student performance in foundation engineering courses	Sudeshna Pal
272	44010	Examining the Catalysts and Barriers that Early-Career Engineers Experience to Their Adaptability at Work	Samantha Ruth Brunhaver

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273	42643	Exploring a multi-dimensional characterization of statics students' questions	Saryn Goldberg
274	42898	Exploring Problem-solving Experiences in Autism-inclusion Schools Using Photovoice: A Collaborative Data Collection Process	Kavitha Murthi
275	43395	Exploring the Impact of Industry Partnerships to Promote STEM Careers in Rural Middle Schools	Tameshia Ballard Baldwin
276	41528	Exploring the Impact of Program Name Change on Gender Diversity in STEM	Faiza Zafar
277	41731	Exploring the Intersection of Diversity, Equity, Inclusion, and Ethics in Engineering: Project Overview and Preliminary Results	Isil Anakok
278	41608	Faculty and Staff Ideas and Expectations for a Culture of Wellness in Engineering	Eileen Johnson
279	41571	Failure in Focus: Unpacking the Impact of Video-Based Reflections on Museum Educator Practices	Amber Simpson
280	44198	Family partnerships in search for equity and excellence in education: Building a sense of belonging with ownership and pride among first generation college students at a Hispanic-Serving Institution	Juan Salinas
281	41726	Fidelity and Transferability of an Ecological Intervention to Transform Engineering Representation at Scale	Linda DeAngelo
282	42678	Finding Meaning in Makerspaces: Exploring How Gender Influences Makerspace Definition Among First-Year Engineering Students	Hannah Budinoff
283	43146	Findings from the Spring 2022 to Spring 2023 Semesters of the PEERSIST Project - A Formation of Engineers Framework for Understanding Self-Efficacy and Persistence among Transfer Students	Ryan James Milcarek
284	41201	First Year Experience from Industries of the Future Research Experience for Preservice Teacher in STEM Settings	Weihang Zhu
285	41558	First-Year Electrical and Computer Engineering Undergraduate Performance at Identifying Ethical Concerns in IEEE Case Studies	Todd Freeborn
286	43578	Formative assessment of equity and inclusion in student teams	Andrew Moffat
287	41394	Fostering Leaders in Technology Entrepreneurship (FLiTE): Second Year Progress	Paul M Yanik

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288	43519	Fostering Sustainable Waste Management Education through Undergraduate Research	Zhihui Sun
289	41475	From Logs to Learning: Applying Machine Learning to Instructor Intervention in Cybersecurity Exercises	Jens Mache
290	44047	From Resistance to Readiness – Building Capacity to Pilot and Scale Corequisite Calculus for First Year Engineering Gateway Courses	Darlene M. Olsen
291	43110	Future STEM Leaders: An Innovative Career Readiness Program for Female Graduate Students	Alfreda Samira James
292	43304	General-purpose Artificial Intelligence Approach for Intelligent Tutoring	Ryan Hare
293	42185	How to Teach Debugging? The Next Million-Dollar Question in Microelectronics Education	John Hu
294	44383	HSI Implementation and Evaluation Project: THE FRESHMAN YEAR INNOVATOR EXPERIENCE (FYIE): BRIDGING THE URM GAP in STEM	Noe Vargas Hernandez
295	42108	HSI Planning Project: Integrative Undergraduate STEM Education at Angelo State University (I-USE ASU Grant #2122828)	Brittany Paige Trubenstein
296	42904	Immersive Engineering Learning and Workforce Development: Pushing the Boundaries of Knowledge Acquisition in a CAVE	Albertha Hilton Lawson
297	43600	Impact of Community-based Engineering Lessons on Rural and Indigenous Elementary Students	Rebekah J Hammack
298	42193	Supporting elementary engineering instruction in rural contexts through online professional learning and modest supports	Rebekah J Hammack
299	43378	Impact of Socialization on Graduate Student Education	Arvin Farid
300	42316	Impact of Virtual Reality on Motor Skill Performance in Children with Autism Spectrum Disorder	Damian Valles
301	42046	Impacts of the ProQual Institute: Summative evaluation of participant skills, perceptions, confidence, and research products from a qualitative research institute	John Ray Morelock
302	41876	Implementation of an Equitable and Inclusive After-school STEM Program	Matt Aldeman

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303	41292	Implementing Oral Exams in Engineering Classes to Positively Impact Students' Learning	Huihui Qi
304	41936	Improving engineering mechanics self-efficacy by focusing on abstracting the physical world as a precursor to analysis	Nigel Berkeley Kaye
305	42563	Improving Fundamental Mathematics Skills in Pre-Calculus Math Using Placed -Based Engineering Canvas Applications	Monika Neda
306	42606	Improving retention rate and success in computer science scholars	Xiao Chang
307	42572	Improving STEM Student Fundamental Math Skills with Tailored Game-Based Instruction	Monika Neda
308	41717	Improving Student's Sociotechnical Literacy in Engineering	Ethan E Danahy
309	41751	Improving teachers' attitudes toward sound and waves through the connections with music	Victor Mincec
310	42521	Improving the validity of an instrument to measure mental health help-seeking beliefs for diverse institutional contexts	Sarah A Wilson
311	44296	Increasing Representation in Engineering through Makerspace Technologies	Shama Rajan Iyer
312	43438	Increasing Retention for Rural and Underrepresented STEM Students	Carol S Gattis
313	41150	Industry 4.0 Engineering Technology Skill Integration into Florida's Technical Workforce Environment	Marilyn Barger
314	41969	Initial Explorations to Understand how our Research Teams Think about Knowledge and Make Research Decisions	Courtney June Faber
315	41686	Initial findings of engineering facultie's perceptions of mastery assessment in a project-based engineering program	Sara A. Atwood
316	42590	Innovation Self-Efficacy: Empowering Environmental Engineering Students to Innovate	Azadeh Bolhari
317	42729	Institutional Practices to Close the Equity Gap	Heather Dillon

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318	42318	Instructor Experiences Integrating Facilitated Socially Engaged Engineering Content in their Courses	Erika Mosyjowski
319	42575	Integrating Computing Throughout K-12 While Bridging the Digital Divide	Mike Borowczak
320	40996	Integrating Playful Learning: A Mixed-Reality Approach to Enhance Computational Thinking in Young Learners	Jaejin Hwang
321	41862	Integrating Sociotechnical Issues in Electrical Engineering Starting with Circuits: Year 1	Susan M Lord
322	41677	Experiences (CUREs): Mitigating Fugitive Dust Effects by Using Urease in Enzyme Induced Carbonate Precipitation (EICP)	Anna Marti-Subirana
323	43327	Investigating Engineering Undergraduate's Writing Transfer from Two First-Year Writing-Intensive Sites to Introductory Engineering Labs	Dave Kim
324	41114	Is Adaptive Learning for Pre-Class Preparation Impactful in a Flipped STEM Classroom?	Renee M Clark
325	41285	IUSE/PFE:RED Innovation: Breaking the Binary	Andrew Danowitz
326	43796	K-12 Teachers and Data Science: Learning Interdisciplinary Science through Research Experiences	Katherine G. Herbert-Berger
327	41261	Learning Map Framework to Align Instruction and Improve Student Learning in a Physics-Engineering Mechanics Course Sequence	Courtney D Giles
328	43933	Lessons Learned from First-time First-year Startup of ASES S-STEM Program	Dick Apronti
329	41545	Lessons Learned: NSF REU Site - Growing Entrepreneurially Minded Researchers with New Product Development in Applied Energy	Lisa Bosman
330	43446	Looking Back: Alumni assessment of activities offered through NSF S-STEM Grant	Varun K Kasaraneni
331	41320	Making Space in a Makerspace: Increasing Belonging through Social Engagement	Jill Davishahl
332	44359	Measuring the Impact of a Soft Robotics Curriculum Embedded in Physics Classes on Students' Engineering Knowledge, Identity, and Career Interest	Holly M Golecki

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333	42958	Metacognitive Intervention to Improve Problem Solving Skills in First Year Engineering Students	Lizzie Santiago
334	43198	Motivation Loss in Math: Contributing Factors and Consequences	Chris Hulleman
335	41809	Native American teacher's pre-post participation experiences in online coding curriculum and professional learning	Bahar Memarian
336	43049	NSF CAREER: Engineering Pathways for Appalachian Youth: Design Principles and Long-term Impacts of School-Industry Partnerships	Hannah Glisson
337	41698	NSF RED: Opening Student Pathways through the Capability Approach	Alan Cheville
338	43676	NSF S-STEM: A Community College and University Partnership to Support STEM Student Success; Achievements and Challenges in the First Year of Implementation	Jessica Santangelo
339	43095	NSF S-STEM: Educating Engineering Undergraduates to be Intrapreneurs	Tim Dallas
340	44510	Nurturing a Community of Practice Approach Toward Equitable and Inclusive STEM Environments in Schools	Lara Hebert
341	41891	Obstacles in Context: A Multi-Perspective Examination of Obstacles of Revolutionizing Engineering Education in the NSF RED Program	Eva Andrijcic
342	41971	On the Development of Spatial Visual Abilities among STEM Students via Interactive Mixed Reality Modules	Israa Azzam
343	41116	Outcomes from Metacognition Support in a Fluid Mechanics Flipped Classroom	Renee M Clark
344	42807	PALAR in Pieces: an Informal Framework to Encourage Multifaceted Engagement	Jessica Rush Leeker
345	42013	Perceptions of Sustainability Among Participants at the NSF REU Site on Sustainable Resilient Transportation Systems	Haritha Malladi
346	44379	Plants, Power, and People: Using Agrivoltaics Engineering to Create a Network of K-12 Teachers and Students Contributing to Sustainable Energy Transitions	Michelle Jordan
347	43036	Positive Predictors of Neurodiverse Students' Sense of Belonging in Engineering	Maria Chrysochoou

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348	43854	Poster - Unified Regular Expression Antipattern Language (UREAL)	Joseph Roy Teahen
349	41432	Predicting Persistence in Engineering via Framing Agency	Vanessa Svihla
350	42367	Preliminary Results from Community Colleges Collaborating in STEM	Melanie B Butler
351	43311	Preparing Early Engineers through Context, Connections, and Community	Eric Davishahl
352	41133	Preparing Mechanical Engineering Students for Industry 4.0: an Internet of Things Course	Hakan Gurocak
353	43591	Preparing Resilient Individuals to Succeed in Engineering Through NSF S-STEM Program	Sarah Cooley Jones
354	42670	Project ELEVATE: Promoting Sustained & Equitable Change Among Black, Latinx, and Indigenous Engineering Faculty	Linda DeAngelo
355	42231	Project Update: Academic Success of STEM College Students with ADHD and the Role of Classroom Teaching Practices	Nolgie O. Oquendo-ColÃ³n
356	43265	Providing and Implementing Inclusive Practices in Engineering Classrooms: Final Reflections from Three Partner Institutions	Jessica Moriah Vaden
357	41727	Psychosocial and Skills-Based Outcomes of Participating in Vertically Integrated Projects (VIP)	Craig O. Stewart
358	43299	Quantitative network analysis for benchmarking and improving makerspaces	Astrid Layton
359	41195	Reaching diversity, equity, and inclusion targets in STEM: lessons from a National Science Foundation Research Traineeship (NRT) with outstanding demographics	Eduardo Santillan-Jimenez
360	42754	Reflections from Graduates on the Impact of Engineers Without Borders USA Experiences on Professional Preparation	William C. Oakes
361	42061	Reframing Racial Equity Year 2: Examining Script of Whiteness	Diana A. Chen
362	42666	Reimagining Civil Engineering Graduate Programs: A Research-to-Practice Approach for Shaping Future Transportation Engineers	Brittany Lynn Butler

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363	42468	Reimagining Essential Computing Content for High School Students	Julie M. Smith
364	43464	Reinforcing Retention: Engaging with HBCUs to Identify Best Practices for Graduating Low-Income Students	Brittany Boyd
365	42082	Relating Sociocultural Identities to What Students Perceive as Valuable to their Professional and Learning Efficacy When Engaging in Virtual Engineering Labs	Kimberly Cook-Chennault
366	43602	Relationship between team building activities and capstone team performance and student experience	Elizabeth A. Debartolo
367	43398	Repairing the Reputation of the Teaching Profession	Sabina Anne Schill
368	44158	Replicating the Community-Engaged Educational Ecosystem's Differences in Outcomes across Students	Danielle Wood
369	42345	Research Experiences for Teachers (RET): Engineering for People and the Planet as Inspiration to Teach Integrated STEM	Katherine C. Chen
370	43153	Research Initiation in Engineering Formation: Literature Review and Research Plan for an Engineering Specific Empathy Scale	Emmabeth Parrish Vaughn
371	43353	Research Initiation: Expanding the Boundaries of Ethical Reasoning and Professional Responsibility in Engineering Education Through Critical Narrative	Jeff R. Brown
372	41146	Research Initiation: Facilitating Knowledge Transfer within Engineering Curricula	Alexander John De Rosa
373	41697	Research Initiation: Understanding Interactions Between Affect and Identity in First- and Second-Year Engineering Students	Emma Treadway
374	41197	Responsive Support Structures for Marginalized Students in Engineering: Insights from Year 4	Malini Josiam
375	42272	REU Participant Perceptions of Engineering Education Research: Looking for REU Impact	Oenardi Lawanto
376	42306	REU Site: Lowering the Carbon Footprint through Research in Propulsion and Power Generation	Catherine G. P. Berdanier
377	41807	Rising Scholars Graduation Rates and Project Closure Data	Robert Merton Stwalley

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378	43182	Scholarships to Accelerate Engineering Leadership and Identity in Graduate Students (ACCEL)	Tracie Ferreira
379	43544	SedimentSketch, teaching tool for undergraduate sedimentology to provide equitable and inclusive learning for Hispanic students	Anna Stepanova
380	43384	Self-storytelling Interventions to Promote Engineering Student Success	Krishna Pakala
381	43442	Serving Community Needs while Sharpening Engineering Skills	Urszula Zalewski
382	41350	Social and Cultural Activities Integrated into an International Research Experiences for Undergraduates Program in the Czech Republic	Todd Freeborn
383	41784	Socially Responsible Computing: Promoting Latinx Student Retention Via Community Engagement in Early Computer Science Courses	Zoe Wood
384	42025	South Dakota Mines Art + Engineering engagement in co-curricular and community focused events	Katrina Donovan
385	42827	Spatial Skills with Augmented Reality: The Journey of Integration	Kai Jun Chew
386	41467	S-STEM: Creating Retention and Engagement for Academically Talented Engineers - Lessons Learned from a Four-Year Cohort	Indira Chatterjee
387	43687	S-STEM: Iron Range Engineering Academic Scholarships for Co-Op Based Engineering Education	Catherine Mcgough Spence
388	44041	Student Engagement - IoT-Based Learning Materials and Projects	Lifford McLauchlan
389	42673	Student Success in Engineering Through Customized Support and Internal and External Partnerships	Vellore S. Gopalaratnam
390	43131	Student-Led Collaboration for Data-Driven Decisions in Food, Energy, and Water Systems	Sarah M. Ryan
391	43774	SUCCESS Scholars: Early Findings from an NSF S-STEM Project	Krystal Corbett Cruse
392	41200	Support Teacher Course Development through TeachEngineering Standard	Weihsang Zhu

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393	43100	Supporting Hardware Engineering Career Choice in First-Year Engineering Students	Andrea Ramirez-Salgado
394	41430	Supporting Secondary Student's Engineering Front-End Design Skills with the Mobile Design Studio	Corey T Schimpf
395	42041	Supporting STEM faculty in adopting and adapting writing pedagogies	Julie L Zilles
396	43467	Supporting students' success in the cybersecurity field: Accomplishments and lessons learned by the ACCESS project	Katerina Goseva-Popstojanova
397	42012	Sustainable Racial Equity: Creating a New Generation of Engineering Education DEI Leaders	Homero Murzi
398	41554	Sustaining and Scaling the impact of the MIDFIELD project at the American Society for Engineering Education (Year 2)	Susan M Lord
399	42535	The Affordances of Playful Learning in Ethics Education: Challenging the Status Quo	Scott Streiner
400	41669	The Evolution of the IMPACTS Mentoring Model: Expanding the Scope to Broaden Success in the Engineering Professoriate	Sylvia L. Mendez
401	43081	The Fidelity of Implementation of a Lesson Study Framework in Engineering Courses at a Hispanic-Serving Institution	Janeth Martinez-Cortes
402	43383	The First Two Years: An Overview of Contributions of the NSF CAREER: Valuing Education and Career Transition Opportunities Raising Student Success Project	Kristin Kelly Frady
403	43408	The Influence of Belongingness and Academic Support during a Global Pandemic for Engineering Students through Participation in an S-STEM Intervention Project	George Quainoo
404	43753	The Role of Feedback within Scrum for Engineering Department Operation	Massood Towhidnejad
405	41274	The Stressors for Doctoral Students Questionnaire (SDSQ): Year 3 of an RFE project on understanding graduate engineering student well-being and retention	Joseph Francis Mirabelli
406	41087	The Transformation of a Mathematics Department	Tuncay Aktosun
407	42172	The Use of Home Technology in Preschooler's Families in Urban Settings: Experiences and Potential Impacts	Gisele Ragusa

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408	43597	Toward Building a Human-Computer Coding Partnership: Using Machine Learning to Analyze Short-Answer Explanations to Conceptually Challenging Questions	Harpreet Auby
409	44008	Toward understanding engineering transfer students' transitions from community colleges to 4-year institutions	Karcher Morris
410	42234	Tracing the Evolution of NSF REU Research Priorities and Trends	Yu-Fang Jin
411	43013	Training Socially Responsible and Engaged Data Scientists: Lessons from Four Student Cohorts	Valentina Kuskova
412	43477	Undergraduate Research and Innovation Experience in Cancer Diagnosis and Therapeutic Intervention	Nellone Eze Reid
413	41962	Undergraduate Robotics Education with General Instructors Using a Student-Centered Personalized Learning Framework	Rui Wu
414	41720	Understanding and Scaffolding the Productive Beginnings of Engineering Judgment in Undergraduate Students	Aaron W. Johnson
415	43982	Understanding magnetism concepts through augmented reality: a qualitative analysis	Michele McColgan
416	43113	Understanding the Experiences of Graduate Program Directors: The Intersection of Roles, Responsibilities, and Care in Engineering Graduate Education	Alexandra Coso Strong
417	43658	Understanding the Implementation of the STEM-ID Curricula in Middle School Engineering Classrooms (Fundamental)	Jessica D Gale
418	44073	Understanding why some African American Students Chose Engineering Technology over Engineering and the Implications of this Choice	Lesley M Berhan
419	43521	Untangling 'Neurodiversity' and 'Neurodivergence': Implications for Research Practice in Engineering and STEM Contexts	Alexandra Hain
420	42482	Urban STEM Collaboratory: 5 Years of Lessons Learned	Stephanie S Ivey
421	44323	Using Interdisciplinary Engineering Design Challenges Coupled with Career Exploration to Develop an Engineering Identity in Low-Income Students	Ricky T Castles
422	42858	What Does It Take to Implement a Semiconductor Curriculum in High School? True Challenges and The Teacher's Perspectives	John Hu

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423	43367	What drives you? Exploring the motivations and goals of low-income engineering transfer students for pursuing engineering	Anna-Lena Dicke
424	41585	What Works: Intra-Institutional Partnerships and Processes for S-STEM Recruitment	Tamara Floyd Smith
425	43392	Word in Progress: Initiating a research experience for teachers centered on manufacturing	Marian S. Kennedy
426	43375	Work in Progress: Real-Time Ecological Momentary Assessment of Students' Emotional State in Statics	Diana Arboleda
427	41889	Work in Progress: ADVANCE Strategic Partnership for Alignment of Community Engagement in STEM (SPACES)	Angela R Bielefeldt
428	41371	Work in Progress: An Open Educational Resource to Improve Architectural Engineering Students Conceptual Knowledge When Writing-to-Learn: Investigation 1	Ryan Solnosky
429	43175	Work in Progress: Capacity-Building for Change Through Faculty Communities Exploring Data and Sharing Their Stories	Amy B Chan Hilton
430	43298	Work in Progress: Enhancing the Use of Institutional Data in S-STEM Proposals: Capacity-Building Workshops	Amy B Chan Hilton
431	43839	Work in Progress: Fostering Team Science in an Engineering Education Research Team	Rodolfo Valdes-Vasquez
432	41920	Work in Progress: Immersive, Hands-On, and Interactive Quantum Information Science and Technology: Empowering Undergraduate Students in Quantum Computing	Gloria J Kim
433	41695	Work in Progress: Improving Students' Decision-Making Behavior in Choosing an Engineering Pathway	Jennifer R Amos
434	43542	Work in Progress: On the Use of Low Cost Environmental Monitors in rural K-12 Outreach to Enhance Engineering Identity Development	Daniel Knight
435	43532	Work in Progress: Preliminary Findings from NSF Award No. 2205033 - Research Initiation: Mapping Identity Development in Doctoral Engineering Students	Jennifer A Cross
436	43511	Work in Progress: Testing and Examining the Impact of a Set of STEM-Oriented Creative Video Projects on STEM Student's Psychosocial, Persistence, and Scholastic Outcomes	Marcus Antonius Ynalvez
437	43236	Work in Progress: Transforming STEM Undergraduate Education Through a Hispanic Student Success Servingness Framework	Katherine R. McCance

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438	43572	Year Two of Developing a New Dataset for Analyzing Engineering Curricula	David Reeping