Project Title	Company Name	PI	Institution	Cycle
		Danko van der Laan	LBNL	2019
Divertor Component Testing Superconducting Cable Quench Detection		Dan Brunner Brandon Sorbom	ORNL BNL	2019 2019
Alpha Particle Diagnostics Simulation		Steve Scott	PPPL	2019
Divertor Plasma Simulations		Dan Brunner	LLNL	2019
Development of a High-Current Solid-State Switch for Magneto-Inertial Fusion	HelicitySpace [RESCINDED]	Setthivoine You	PPPL	2019
Simulation of Plectoneme Formation		Setthivoine You	LANL	2019
3D MHD Simulations Support for PJMIF Simulations of Global Stability in the C-2W Device		Franklin Witherspoon Sean Dettrick	LANL PPPL	2019 2019
Doppler-Free Saturation Spectroscopy (DFSS) for Magnetic and Electric Field Measurements in an FRC plasma		Deepak Gupta	ORNL	2019
Developing high harmonic fast wave (HHFW) as an enabling electron heating actuator for an FRC plasma		Xiaokang Yang	PPPL	2019
Baselining a Tritium Accountancy and Safety Case for a Molten Salt Liquid Immersion Fusion Blanket		Brandon Sorbom	INL	2020
Development of phased-array HHFW antenna and load-resilient matching network for the C-2W FRC plasma de		Xiaokang Yang	ORNL	2020
Low Temperature Testing of New Lower Cost Magnum-NX HTS Cable for Fusion Conceptual design of a tritium pellet injector for the ST40 spherical tokamak		Alexander Otto David Wilson	BNL ORNL	2020 2020
SPARC 3D Field Physics and Support of the Non-Axisymmetric Coil Assessment		Alex Creely	PPPL	2020
Advanced Manufacturing Workflows For Tokamak Internal Components		Brandon Sorbom	ORNL	2020
Tungsten Engineered Feed Stock for PFCs		Micah Peabody	ORNL	2020
General Fusion - Advanced Stability Analysis for Magnetized Target Fusion		Aaron Frose	PPPL	2020
Investigating microstability characteristics of next step tokamaks across a range of aspect ratios Development of an RF Antenna to start-up and sustain a fusion plasma in a spherical tokamak		Steven McNamara Vladimir Shevchenko	PPPL ORNL	2020 2020
General Fusion – Ion Temperature Diagnostic Improvement		Akbar Rohollahi	ORNL	2020
Time-Dependent Boundary Modeling to Inform Design of SPARC Diagnostic and Actuators		Alex Creely	ORNL	2020
Magnetic Field Vector Measurements Using Doppler-Free Saturation Spectroscopy	Princeton Fusion Systems, LLC	Charles Swanson	PPPL	2020
		Deepak Gupta	ORNL	2020
Innovative Joints for High-Temperature Superconducting Tapes Staged Z-pinch modeling with HYDRA and CHICAGO codes		Francesco Volpe	BNL LLNL	2020 2020
Feasibility Study of High-Flux FRC Formation via Spheromak Merging for C-2W Experiments		Hafaz Raman Hiroshi Gota	PPPL	2020
		Michele Romanelli	PPPL	2020
Characterization and Qualification of JK2LB Alloy for Additive Manufacturing of Fusion Components	Type One Energy Group, Inc.	Randall Volberg	ORNL	2020
Fabrication and characterization of transition metal hydrides for radiation shielding in tokamak devices	3,,	Thomas Davis	LANL	2020
		Zbigniew Piec Setthivoine You	LBNL LANL	2021 2021
Simulation of the Helicity Drive Magneto-Inertial Fusion Concept Improving Plasma Control Capabilities in Magnetically-Confined Tokamak Systems with Transformer Neural Ne		Alexey Svyatkovskiy	PPPL	2021
Extending Operational Boundaries in the Advanced FRC		Sean Dettrick	PPPL	2021
	Renaissance Americas Inc. [VACATED]	Francesco Volpe	SRNL	2021
Informing Layout and Performance Requirements for SPARC Massive Gas Injection	Commonwealth Fusion Systems	Matthew Reinke	PPPL	2021
Active Redox Control of Molten Salts For Fusion Blankets		Brandon Sorbom	SRNL	2021
Neutron Ion Handshake for Fusion Materials Magnetic Pumps for Molten Salt Fusion Devices		Brandon Sorbom Brandon Sorbom	SNL ORNL	2021 2021
		Zachariah Koyn	ORNL	2021
Mechanical Characterization of PFC Candidate Fine-Grain Dispersion-Strengthened Tungsten Materials		Zachariah Koyn	ORNL	2021
In-Field Performance Testing of a Novel HTS CICC for Practical and Cost-Effective Fusion Magnet Systems	General Atomics	Zbigniew Piec	BNL	2021
	Magneto-Inertial Fusion Technologies, Inc. (LLNL	2021
Artificially intelligent optimization of alpha particle transport in stellarators		Christopher Smiet	PPPL LANL	2021 2021
Extension of MCNP® Mesh Based Weight Windows to Support Unstructured Mesh Topologies Characterization of Turbulent Transport and Confinement in ARC with STEP and CGYRO	·	Eugeny Sosnovsky Alex Creely	University-UCSD	2021
Machine learning assisted prediction of tungsten heavy alloy plasma facing component performance for fusion		Dina Yuryev	University-MIT	2022
Assessing ELM mitigation by pellet triggering in SPARC low-collisionality discharges		Christopher Chrobak	ORNL	2022
Agile design workflow for plasma-facing fusion components with coupled thermofluidic and structural optimization		Caroline Sorensen	ORNL	2022
Fuel Cycle and Tritium Plant Model for Fusion Pilot Plant		David Weisberg	SRNL	2022
Tritium Fuel Cycle Modelling and Optimization to Enable Fusion Pilot Plant Development Beyond Neoclassical Closures for MHD Simulation of General Fusion Devices via Kinetic Monte Carlo Calculatio		Ryan Guerrero Colin McNally	SRNL ORNL	2022 2022
Observing Density Evolution During Merging of Plectonemic Taylor states		Setthivoine You	University-Swarthmore	2022
3D modeling of the Staged Z-pinch with the FLASH code		Emil Ruskov	University-Rochester	2022
Hard x-ray imaging and characterization of staged z-pinch plasmas in order to exclude ion beams as cause of fu		Hafiz Rahman	University-CalTech	2022
Electron density profiles on PFRC with USPR		Chris Galea	University-UCDavis	2022
Evaluating RF antenna designs for PFRC plasma heating and sustainment Stabilizing PFRC plasmas against macroscopic low-frequency modes		Michael Paluszek Stephanie Thomas	PPPL PPPL	2022 2022
		Yitei Zhang	University-FSU	2022
Development of a High-Flux Inductive Spheromak Gun for FRC Formation via Counter-Helicity Merging	•	Hiroshi Gota	PPPL	2022
THz Radiation Generation to Enable Internal Magnetic Field Measurement of Burning Plasmas	TAE Technologies, Inc.	Ales Necas	University-Rochester	
FLARED Flowing Lithium's Adsorption and Release Experiment for Deuterium	Tokamak Energy, Inc.	Mark Koepke		2022
Simulation of Direct-Drive Hybrid Using Two Opposed Beams for Inertial Fusion Energy	VMC Inc. dba Voimar France:		University-UIUC	2022
A modern neutronics-modeling uncertainty methodology towards a future fusion neutronics handbook		Conner Galloway	University-Rochester	2022 2022
A modern neutronics-modeling uncertainty methodology towards a future fusion neutronics handbook Oxide Dispersion Strengthened Ferritic Steel Wire Feedstock Development for Large-Format Additive Manufaci	Commonwealth Fusion Systems [VACATED]	Conner Galloway Corinne Mitchell	University-Rochester ORNL	2022 2022 2022
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Oxide Dispersion Strengthened Ferritic Steel Wire Feedstock Development for Large-Format Additive Manufac Retention of Fusion Plasma Species in PFC Candidate Fine-Grain Dispersion-Strengthened Tungsten Materials Simulation study for risk assessment of laser-plasma instabilities in proton fast ignition	Commonwealth Fusion Systems [VACATED] Commonwealth Fusion Systems Energy Driven Technologies LLC Focused Energy Inc.	Conner Galloway Corinne Mitchell Cody Dennett Zachariah Koyn Pravesh Patel	University-Rochester ORNL PNNL SNL LANL	2022 2022 2022 2022 2022 2022 2022
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SOLPS-derived separatrix operating space scalings for informing SPARC integrated power exhaust scenarios	Commonwealth Fusion Systems	Thomas Eich	ORNL	2024
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