



OPPORTUNITIES FOR COLLABORATION & CALL FOR PROPOSALS for DIII-D in 2021

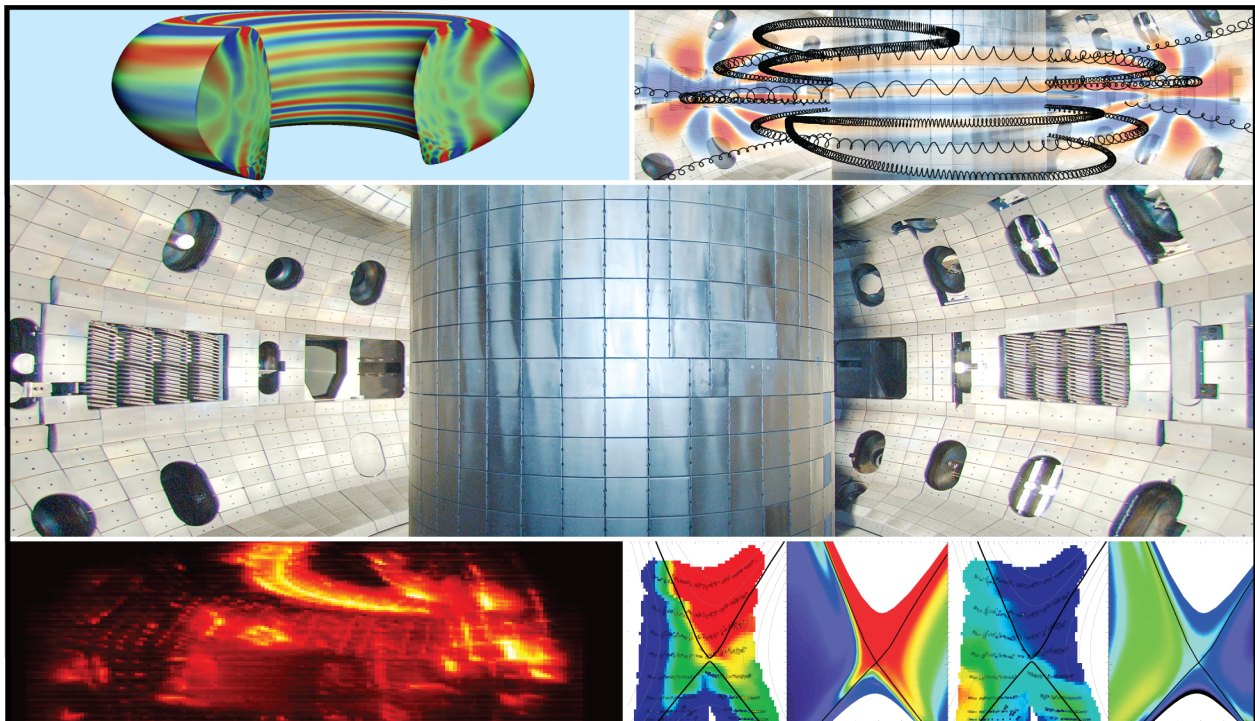
The DIII-D National Fusion Facility is inviting collaboration in its 2021 program. The DIII-D team is a national and international collaboration amongst ~100 institutions. Collaborators manage elements of the program, generate ideas and innovations, lead experiments, build and operate diagnostics and other equipment, analyze data, provide theory and modeling support, and report and publish results world wide. Opportunities also exist for graduate and undergraduate students.

The goal of the DIII-D program is to establish the scientific basis for the optimization of the tokamak approach to fusion energy. Research in 2021 has entered an exciting new chapter, with the reorientation of neutral beam injectors to double off-axis current drive while raising co-injected power by 30%. This will permit new explorations of the Advanced Tokamak concept for steady state fusion, alongside continued high priority work to resolve stable high performance discharges for ITER. An emphasis is also placed on development of innovative divertor and pedestal solutions, their underlying science, and the integration of core end edge solutions.

In this work a strong focus is placed on developing a validated physics understanding of the foundational processes and quantitative predictive simulation capability. This benefits from a comprehensive set of high resolution 1D, 2D and 3D diagnostics. New systems have been or will be commissioned including radiative power, neutral density, ion temperature and 2D Thomson scattering for divertor physics; gamma/EUV imaging and spectroscopy for runaway electron physics; laser blow-off and spectroscopy to measure impurity transport; a range of turbulence, energetic particle and profile diagnostic upgrades. A further campaign of Frontiers Science is being considered, for which separate calls will be issued later.

The DIII-D program is open to proposals from all potential collaborators for engagement, analysis, new diagnostics or other hardware, and experiment. Experiments are underway for FY21, where some slots for experiment time remain to be allocated.

For more details see <https://fusion.gat.com/global/diii-d/home>. *We look forward to your participation.*



DIII-D PHYSICS GROUPS and PHYSICS AREA CONTACTS

Research Area	Contact	E-mail	Phone
Experimental Science: Craig Petty - Acting (dep: Punit Gohil)			
Burning Plasma Physics Group:	George McKee - Acting Dep: Mike Van Zeeland	McKee@fusion.gat.com Vanzeeland@fusion.gat.com	858-455-2419 858-455-3234
Turbulence	Terry Rhodes	trhodes@ucla.edu	858-455-2437
L-H Physics	Lothar Schmitz, Zheng Yan	Lschmitz@ucla.edu	310-825-3097
Rotation Physics Thrust	Colin Chrystal	Chrystal@fusion.gat.com	858-455-5231
Energetic Particles	Bill Heidbrink	Heidbrink@fusion.gat.com	949-824-5398
Heating and Current Drive Physics & topical leads: <i>helicon, EC, NB, LHCD</i>	Bob Pinsker. <i>Andrea Garofalo, Xi Chen, Shaun Haskey, Steve Wukitch</i>	Pinsker@fusion.gat.com	858-455-2074
Impurity Transport Working Group	Nathan Howard	nthoward@psfc.mit.edu	617-253-4785
Integrated Plasma Scenarios:	Chris Holcomb Dep: Andrea Garofalo	Holcomb@fusion.gat.com Garofalo@fusion.gat.com	858-455-4170 858-455-2123
Inductive and ITER Q=10 Thrust	Francesca Turco	Turcof@fusion.gat.com	858-455-2495
Steady State	Chris Holcomb JM Park, C Collins	Holcomb@fusion.gat.com Parkjm@fusion.gat.com	858-455-4170 858-455-3074
3D and Stability Physics	Nik Logan Jeremy Hanson	logan@pppl.gov Hansonjm@fusion.gat.com	858-455-3614 858-455-4512
Control	Dave Humphreys Mike Walker	Humphreys@fusion.gat.com Walker@fusion.gat.com	858-455-2286 858-455-2483
Disruption Mitigation	Nick Eidietis Daisuke Shiraki	Eidietis@fusion.gat.com Shirakid@fusion.gat.com	858-455-2459 858-455-2339
Edge and Boundary Physics Group:	Brian Grierson Dep: Max Fenstermacher	Grierson@fusion.gat.com Fenstermache@fusion.gat.com	858-455-3986 858-455-4159
Pedestal Physics	Rich Groebner, Xi Chen	Groebner@fusion.gat.com	858-455-3997
ELM Control	Carlos Paz-Soldan	Paz-Soldan@fusion.gat.com	858-455-2328
Advanced Materials Validation	Tyler Abrams	Abramst@fusion.gat.com	858-455-2821
Divertor Science and Innovation Group	Morgan Shafer Adam McLean	Shafer@fusion.gat.com McLean@fusion.gat.com	858-455-4559 858-455-4122
Core-Edge Integration Physics	Livia Casali Huiqian Wang	Casali@fusion.gat.com wanghuiqian@fusion.gat.com	858-455-3363 858-455-3337
Cross-Cutting Initiatives and Foundational Science:			
EAST Task Force	Andrea Garofalo Xianzu Gong	Garofalo@fusion.gat.com Xz_gong@ipp.ac.cn	858-455-2123
Torkil Jensen Award:	Mike Van Zeeland	Vanzeeland@fusion.gat.com	858-455-3234
Frontiers Science Campaign	Troy Carter	tcarter@physics.ucla.edu	

DIII-D PROGRAM & INSTITUTIONAL CONTACTS

Title	Name	E-mail	Phone
Program Director	Richard Buttery	Buttery@fusion.gat.com	858-455-3557
Deputy Program Director			
Assistant Program Director	Chuck Greenfield	Greenfield@fusion.gat.com	858-455-3686
Experimental Science Director	Craig Petty - Acting	Petty@fusion.gat.com	858-455-2831
Experimental Sci. Deputy Director	Punit Gohil	Gohil@fusion.gat.com	858-455-4191
Operations Director	George Sips	Sips@fusion.gat.com	
Theory and Computational Science	Phil Snyder	Snyder@fusion.gat.com	858-455-4088
Computer and Diagnostic Systems	Réjean Boivin	Boivin@fusion.gat.com	858-455-4736
Experiment Chief Run Coordinator & Associate Run Coordinators	Max Fenstermacher, <i>Jeremy Hanson, Auna Moser, Max Austin, Alessandro Bortolon</i>	Fenstermache@fusion.gat.com	858-455-4159
LLNL Onsite Coordinator	Steve Allen	Allens@fusion.gat.com	858-455-4137
ORNL Onsite Coordinator	Morgan Shafer	Shafer@fusion.gat.com	858-455-4559
PPPL Onsite Coordinator	Brian Grierson	bgriers@pppl.gov	858-455-3986
UCLA Onsite Coordinator	Terry Rhodes	Rhodes@fusion.gat.com	858-455-2437
UCSD Onsite Coordinator	Eric Hollmann	EHollmann@ucsd.edu	858-455-2275
UWisc Onsite Coordinator	George McKee	McKee@fusion.gat.com	858-455-2437