



OPPORTUNITIES FOR COLLABORATION & CALL FOR FUTURE PROPOSALS for DIII-D

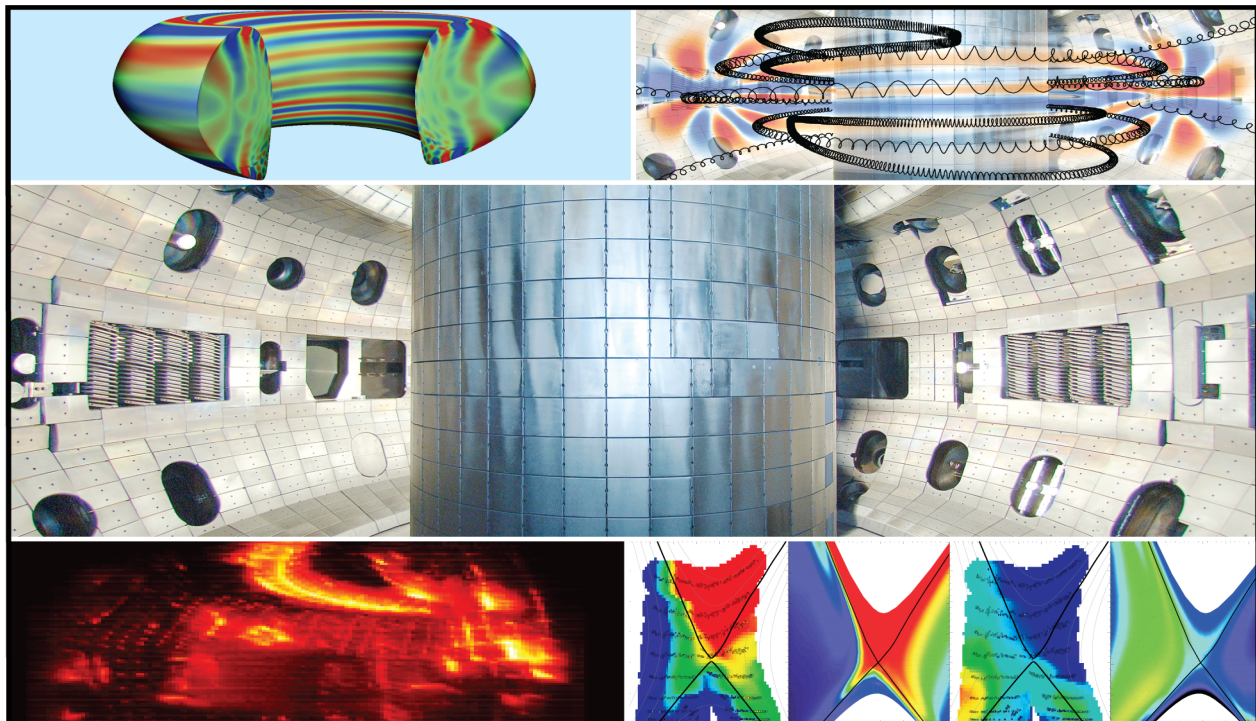
The DIII-D National Fusion Facility is inviting collaboration in its upcoming program. The DIII-D team is a national and international collaboration amongst ~100 institutions. Collaborators manage elements of the program, generate ideas and innovations, lead experiments, build and operate diagnostics 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 2024 will enter an exciting new chapter, with a new modular divertor that allows advanced scenario demonstration at higher triangularity and elongation, the installation of high-field-launch LHCD and 4 MW of ECH. 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 2D Thomson scattering, ion temperature and EUV/VUV spectrometer for divertor physics; Lyman-alpha measurements of edge neutral profiles at multiple locations; helium beam for edge density profile; Doppler-free saturation spectroscopy; gamma ray imager for runaway electron physics; high resolution bolometers; and 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.

An announcement in 2023 will call for new proposals from all potential collaborators, as well as for engagement, analysis, new diagnostics or other hardware, and experiment. Experiments will begin next month for FY23; please contact the appropriate physics group leader if you wish to be involved.

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



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