

DIII-D Record of Discussion

Purpose

The [DIII-D National Fusion Facility](#) is a user facility of the [U.S. Department of Energy, Office of Science](#), under the [Fusion Energy Sciences \(FES\) program](#). Applicants submitting proposals that involve research activities at DIII-D need to complete this Record of Discussion (ROD). Not all proposals require that the ROD be submitted with the application, but the DIII-D program must have its ROD for coordination with FES.

The purpose of the ROD is to help applicants prepare a proposal that is consistent with the capabilities and plans of the DIII-D program and to provide advance notice to FES concerning the potential resources required to support this proposed research. ***The ROD is not a merit review.***

Instructions to Applicants

Before Beginning the Record of Discussion Process

As you prepare your proposal, ensure that you are familiar with the DIII-D facility. The [DIII-D User Guide](#) is the reference for identifying information about DIII-D. The [Program Documents](#) page provides access to various policies that are relevant in the creation of your proposal. It is especially important to review the Guidance Documents known as “D3DG.06: Program Resources Provided to Users” and “D3DG.08: Data Management Plan” as they provide information directly relevant to the formulation of proposed research activities.

Initiating a Record of Discussion

Use the Contact Form at <https://d3dfusion.org/contact-us/> to request support for a Record of Discussion (ROD). In this request, please indicate any preferences for the DIII-D Research Contact. The Research Contact role can be performed by anyone who is not affiliated with the lead institution on the proposal. It is acceptable for the Research Contact to be a paid participant on the proposal (again, this is not a merit review).

After submitting the support request, and before receiving a reply, complete Section 1 of the ROD to the best of your knowledge (all signatures are collected through the DocuSign service, so signature blocks should be left blank until received through DocuSign). The response to your support request will provide you with an administrator who will provide detailed instructions to lead you through the process. The administrator will collect your ROD with Section 1 completed and then perform the evaluation of Section 2. If the ROD is required, then a DIII-D Research Contact will be provided and you will also receive instructions on how to deliver a copy of your pre-proposal and other technical documents as necessary to complete this assessment.

Completing the Record of Discussion

After receiving confirmations from the assigned administrator, interact with your DIII-D Research Contact so that they can complete Section 3. Once Sections 1 through 3 are complete, then your part of the process is complete. The detailed instructions provided by the administrator will describe delivery of the final ROD. The final ROD is automatically provided to the FES Program Manager for DIII-D. It is not necessary to submit the ROD with any proposal, unless the instructions for that proposal specifically require it.

Upon Award of the Proposal

If your proposal is awarded, then please provide confirmation to the administrator as soon as possible. A post-award update to the ROD is required. That process occurs after the scope allowed by the award is finalized.



Record of Discussion (ROD) for Funding Proposals Involving DIII-D Activities

Section 1: Proposal Information Provided by the Proposal Team (please provide all information under the assumption that the proposal is awarded)			
1a) Basic Information			
Principal Investigators (PIs): full names and affiliations, list up to three. The first PI listed will be designated as the point of contact for completing this ROD.			
PI #1 (<i>ROD Point of Contact</i>) Full Name: Affiliation: Email:	PI #2 Full Name: Affiliation: Email:	PI #3 Full Name: Affiliation: Email:	
Proposal Title:			
Funding Source for Solicitation (e.g., US Department of Energy):			
Solicitation Title:			
Numerical Identifier of Solicitation:			
How is the proposed research scope related to current DIII-D activities? See https://d3dfusion.org/research/ for more information on current and near-term research goals.			
What is the period of performance for this proposal?			
How many proposal team members will require office space at DIII-D, i.e., a dedicated office space for a period of time longer than one month?			
How many new users will this research bring to DIII-D? A new user is someone who has never previously been a DIII-D user.			
Which of the following supporting materials are you providing to DIII-D management to aid in this assessment? <i>Select all that apply.</i>			
Pre-application	Draft Proposal	Full Proposal	Other

1b) Research Goals of the Proposal

Overall Goals of the Proposal

Specific Goals Related to DIII-D Activities

1c) DIII-D Activities Performed by the Proposing Team

List of DIII-D Tasks to be Performed by the Proposal Team

**1d) Proposing Team Estimates of DIII-D Support Resource Needs and Facility Impacts
(outside of contributions from proposal team listed above)**

A DIII-D team member is anyone who participates in the program, regardless of affiliation or funding source.

List of Research Support Tasks Provided by DIII-D Team (includes analysis, experiment design/execution, etc.)

Support from DIII-D Team Members (person-hours):

List of Engineering Support Tasks Provided by the DIII-D Team (includes engineering design, integration of hardware into the facility, etc.)

DIII-D Engineering Support (person-hours):

1d) Proposing Team Estimates of DIII-D Support Resource Needs and Facility Impacts (Continued)

List of Computing Support Tasks Provided by the DIII-D Team (includes Plasma Control System modification/integration, hardware intended to connect to the DIII-D network and its purpose, data analysis setup including workflows, connections to high performance computing, etc.)

DIII-D Computing Support (person-hours):

List Hardware Expected to be Provided by DIII-D (proposing team must ensure compatibility between this request and the support policies of GD 06: Resources Provided to Users)

1d) Proposing Team Estimates of DIII-D Support Resource Needs and Facility Impacts (Continued)			
Does this project require a dedicated port access on DIII-D, or dedicated space within the machine hall?	Yes	No	Uncertain
Does this project include any activities that may conflict with the DIII-D Data Management Plan? The DIII-D Data Management Plan is available as a PDF download from the DIII-D Program Documents site at, https://d3dfusion.org/wp-content/uploads/D3D-G08-DMP-Rev.-A.pdf			Yes No Uncertain
Annual Computing Time Required on DIII-D Systems (CPU-hours):			
Total Disk Storage Space Used (GB):			
List of Software Intended for Use on the DIII-D Computing Cluster (please list both software known to already exist on the cluster and any that might need to be added)			
1e) Principal Investigator Confirmation and Signature			
I confirm that the information in this Record of Discussion is accurate to the best of my knowledge. If this proposal is awarded, I acknowledge it is my responsibility to inform the DIII-D program as soon as possible so that updated planning may commence.			
Name:	Signed:	Date:	
Section 2: Evaluation of Need for this Record of Discussion			
<p><i>As a U.S. Department of Energy, Office of Science user facility, the DIII-D program welcomes new users every year. A specific level of engagement ("standard user participation") is supported outside of any special resource needs. If the proposed research activities fall within the definition of standard user participation, then the Record of Discussion is completed with only Sections 1 and 2.</i></p> <p><i>The proposed research is considered standard user participation if the effort is specifically limited to the following activities: engagement with other DIII-D users to develop proposals for near-term experiments that can be performed using only existing capabilities, analysis of existing data or data expected from already approved experiments using only existing computing resources, participation in design and analysis studies related to approved projects that may add new capabilities in the future (but without any dependence on the projects being completed within the period of performance of this participation).</i></p>			
<p>Determination</p> <p>Full ROD is Required</p> <p>Only Sections 1 and 2 are Required</p>			
I confirm that the Determination listed above represents my assessment based on the information provided by the Proposal ROD Lead. I have communicated this assessment to the Proposal ROD Lead so that they are aware of any remaining requirements.			
Name:	Signed:	Date:	

Section 3: Assessment of DIII-D Research Contact

3a) Relationship to DIII-D Goals

Describe the DIII-D research goals that are advanced by the proposed activities. These goals should be taken from the most recent Program Plans (Field Work Proposal and Five-year Research Plan) as recorded at DIII-D Sharepoint > DIII-D Hub > Documents > Program Plans

How will the proposed research activities advance the field of fusion energy?

What is the likelihood that the proposal will achieve its stated goals in relation to DIII-D activities?

3a) Relationship to DIII-D Goals (Continued)

Describe possible pitfalls or challenges that may limit the success of this research proposal (only pertaining to the DIII-D activities).

3b) Response to Proposing Team's Plans and Resource Estimates

How many runs days of dedicated run time are required to meet the stated proposal goals? One run day is equivalent to eight run hours.

In the three sections below, describe any suggested adjustments to the proposed research plan that would improve the likelihood of success as measured against the proposal's stated goals. These suggestions might include interactions between the proposing team and the DIII-D team following confirmation of award, e.g., analysis planning, assignment of specific responsibilities, etc.

Suggestions related to research activities:

Suggestions related to engineering activities (any omissions in diagnostic and/or hardware needs should be included here):

3b) Response to Proposing Team’s Plans and Resource Estimates (Continued)

Suggestions related to computing activities:

3c) DIII-D Research Contact Confirmation and Signature

I confirm that I have discussed this proposal with the Proposal ROD Point of Contact to inform the assessments provided above.

Name:

Signed:

Date:

Section 4: DIII-D Technical Assessments

DIII-D technical assessments are provided to identify areas that may require attention prior to the proposed activities commencing at the facility. These assessments take the form of comments based on the information provided in this Record of Discussion (above sections) and through any supporting materials provided by the proposing team to DIII-D management.

4a) Engineering Assessment by Chief Engineer or Designate

Engineering Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The engineering assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

4b) Diagnostics Assessment by DIII-D Diagnostics Director or Designate

Diagnostics Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The diagnostics assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

4c) Plasma Control System (PCS) Assessment by PCS Lead or Designate

Plasma Control System Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The Plasma Control System assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

4d) Computing Systems Assessment by Computing Systems Lead or Designate

Computing Systems Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The computing systems assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

Section 5: DIII-D Program Management Assessments

DIII-D program management assessments provide high-level notes related to the proposed research's impacts on other current or potential future facility activities. These notes are vital for communicating to the Department of Energy DIII-D Program Manager any issues that may warrant attention if the subject proposal is awarded.

5a) Research Program Assessment by Research Director or Designate

Research Program Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The research program assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

5b) Operations Division Assessment by Operations Director or Designate

Operations Division Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The operations division assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date:

5c) DIII-D Director Assessment

DIII-D Director Assessment

I confirm that I reviewed the information provided by the Proposal ROD Lead and the content of this ROD as available. The DIII-D director assessment above may need to be adjusted following award of this proposal and the determination of final scope.

Name:

Signed:

Date: