

CINT Proposal Submission Guide

Includes:

Proposal Submission Checklist

Proposal Elements: Description of Proposed Research (Link to Proposal Template)

Tips for Writing a Competitive User Proposal

Proposal Submission Step-by-Step Guide



Proposal Information

- Proposal Title
- Is this a continuation Proposal? If yes,
 - Continuation of what proposal #
 - Accomplishments of prior proposal
 - Productivity of prior proposal (please list and publications, patents, reports, conference talks, etc.)
- Primary Funding Source
- *Rapid Access justification. Please clearly state the time sensitive need of accessing the facility .
- (*this applies to rapid access submissions only. Rapid Access submissions are not accepted during a regular call)
- Is this research Proprietary? (i.e. you will not publish your project results and will be accessing the facilities for full cost recovery)
- Subject (select from dropdown menu):
- Have you been in contact with CINT staff regarding this proposal?
- How did you hear about CINT?
- Will your project require use of the Integration Lab (Clean Room)?
- Will your project require the use of the Tecnai F30 TEM located at the Core (Albuquerque) facility If yes,
 - indicate (1-3 sentences) what type of measurements the instrument will be used for (eg. TEM and/or STEM imaging, Diffraction, EDS, EELS, etc.)
 - Identify who the majority of TEM analysis/experiments will be performed by: (CINT staff, User with TEM experience, user without TEM experience)
 - In terms of 4 hour TEM sessions, how many sessions per month do you request for this work?
- Will your project involve MBE growth

If yes,

- Approximately how many samples to you foresee needing for this proposal?
- Which semiconductor materials do you want in the samples?
- Describe the structure you want grown. (either in words or a drawing)

Project Personnel (non-CINT)

Project personnel information: name, institution, email Provide a brief description of project activities to be performed by each individual

CINT Contacts

Select the lead and support CINT scientist(s), from a dropdown menu, who will play a role in your proposal. One Lead scientist must be selected per proposal.

Provide a brief description of project activities to be performed by each CINT Scientist



Abstract

Enter a brief abstract describing your proposed project. Figures allowed.

Research

Proposal Elements: Description of Proposed Research (Link to <u>Proposal Template</u>)

1 What is(are) the main scientific question(s) being addressed in this user project including the connection to nanoscience?? [suggested length – 200 words]

2. Briefly describe the state of research in this area and how your work is advancing the field. [suggested length – 150 words]

3. What is (are) the expected impact(s) of this user project? [suggested length - 150 words]

4. What specific work will be performed at the user's institution in preparation for, or in support of, the proposed CINT work? (sample preparation, complementary characterization, calculations)

5. What specific tasks will be performed by the user(s) in conjunction with CINT? For each task, include task duration, expected task outcome, requested instrument(s) and CINT staff engagement. (This should be the longest and most detailed section.)

6. Key References

Environmental, Safety & Health

Does your proposal involve bringing hazardous/controlled materials into a CINT facility?



CINT user proposals are evaluated by external reviewers based on <u>six specific proposal</u> <u>elements</u>. Proposals that do not submit their proposaed research using the required template will not be considered for review.

Answer each question below. Proposers may determine the length of each response but the total document length cannot exceed 2 pages, including all text and figures.

1. What is(are) the main scientific question(s) being addressed in this user project including the connection to nanoscience? (suggested length – 200 words)

2. Briefly describe the state of research in this area and how your work is advancing the field. (suggested length – 150 words)

3. What is(are) the expected impact(s) of this user project? (suggested length – 150 words)

4. What specific work will be performed <u>at the user's institution</u> in preparation for, or in support of, the proposed CINT work? (sample preparation, complementary characterization, calculations)

5. What specific tasks will be performed by the user(s) in conjunction with CINT? For each task, include task duration, expected task outcome, requested instrument(s) and CINT staff engagement. (This should be the longest and most detailed section.)

6. Key References



Contact the *facility staff* before writing. Staff are available to

✓ Provide details about the <u>equipment and capabilities</u>, including availability or subscription

- ✓ Help confirm the feasibility of your approach
- ✓ Help estimate and justify the amount of facility time you are requesting

 \checkmark Help address why this specific facility is the best choice to meet your requirements

- ✓ Discuss opportunities for collaboration that might strengthen your proposal
- ✓ Provide constructive comments on your draft proposal

pur draft proposal

Contact facility staff early— the number of requests and response time increases as the proposal deadline approaches.

> Science at user facilities is diverse and reviewers cover broad areas. Don't assume all reviewers will be experts in your specialty.

Include background information on why the proposed research is important

- ✓ Include a precisely defined objective; do not combine loosely related research in a single proposal
- ✓ Clearly articulate the science case: state the problem and its importance
- ✓ Place your research plan in the context of what others have done and are doing; include references to literature where appropriate

 \checkmark State why your proposal is timely and describe what is particularly innovative about your strategy to address the problem

Address how the research will make a difference. Focus on how this particular effort will contribute to the field. Describe the proposed work including samples, methods, and procedures.

- ✓ State clearly and exactly what you are going to synthesize, measure, or calculate
- \checkmark Provide sufficient detail to demonstrate that you have thought carefully about your
- plan
- Describe the techniques to be used to generate and analyze the data
- ✓ Demonstrate familiarity with prior work done in this area
- ---- Refer to current literature, especially your own work

 Summarize the key points of cited references and explain how your proposed work fits in

 \checkmark Demonstrate your team's productivity at the facility, if applicable, by describing how the results of previous research was used and published

- Describe related results (published and unpublished) from work done by your group
 Include key data in graphic format
- ✓ Explain why you need this particular user facility and <u>instruments or methods</u>
- \checkmark Justify the amount of time requested

 \checkmark Identify potential showstoppers and how you plan to avoid them; if you don't identify them, the reviewers will!

Ensure that your facility publication record is current.

Show you made good use of prior facility time.

Be clear and specific, not vague or general



When you enter the proposal submission site (<u>https://cint.sandia.gov/</u>), this is the home page you will see. Please click "log in" in the upper right hand corner

| CENTER FOR INTEGRATED NANOTECHNOLOGIES | TLos |
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| Proposal Nome My Profile My Proposals | |
| NEW TO CINT? | |
| You have reached the Center for Integrated Nanotechnologies user proposal submission site. To learn more about CINT, or to browse the main CINT site, please click here | ANNOUNCEMENTS: |
| HOW TO GET STARTED: | Click berg to view your proposals. |
| Create an account: This will give you secure access to both your past and current proposals. | |
| • Create or Update your Profile: This will ensure that CINT has the latest information for you and the proposals you are part of Click bere to manage your profile. | |
| Gather your Information: The site is designed to guide you through the proposal submission process. You may stop at any point and return later to complete your proposals. Each step is saved as you progress. | |
| Create an online proposal: Log-in to your account using your email address and password. Follow the electronic step-by- step proposal submission links. Each proposal question has context sensitive "help" to guide you through the process, and you may click there for a brief step-by-step guide Click here to view your proposals or create a new proposal. | |
| Complete and submits After completing your proposal and entering all information, click the "submit" button on the review and submit page to submit your proposal. | |
| Review Process: Consists of scientific feasibility, ES&H, external proposal committee evaluation, and final committee consideration of all applicable scientific merit, technical feasibility, impact on field, and CINT capabilities. | AT A GLANCE You are not currently logged in |
| Contractal For approved proposals, identified contract offices will be contacted for user agreement execution in preparation for your project start. | |
| • Proposal Notification: You will receive formal notification via email of the decision regarding your User Proposal. | |
| • Guest Processing: If our proposal is approved and you will be visiting the either of the CINT facilities, you will used to get an ID badge. Pinase contact your scientific liaison or CINT@larl.gov for forms and information. | |

Once at the Log In page:

- If you are a <u>current account holder</u>, please log in with your username and password. If you have forgotten one of these please use the retrieval information at the bottom of the page to have your information emailed to you.

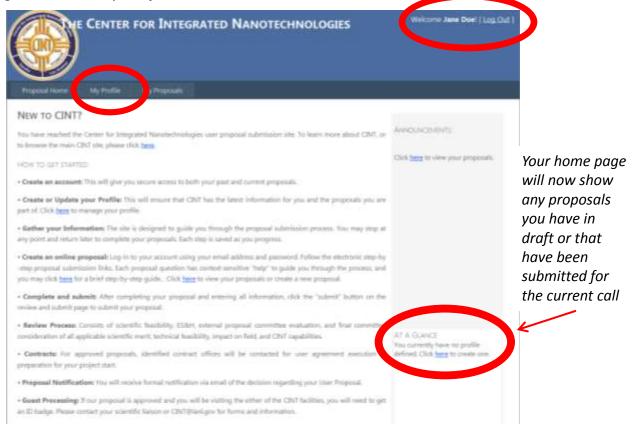
- If you have never logged in to this system before please select Register for an account

| CENTER FOR INTEGRATED NANOTECHNOLOGIES | (Login) |
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| Proposal Home My Profile My Proposals | |
| LOG IN | |
| Please enter your username and password. Register if you don't have an account. | |
| Account Information | |
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| Keep me logged in | |
| Log In Forgot User Name? | |
| Enter your E-mail address to receive your User Name. E-mail Submit | |
| Request New Password | |
| Enter your User Name to receive your persword. | |
| User Name Submit | |

Fill in the appropriate account information and select the button "create user"

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| Jane Doe E-mail junedoe@gmail.com Passwort | | | | | |

Once you have created your user account you will see your log in information in the top right screen confirming your log in. You are now ready to submit a proposal. To begin, click on My Profile



Enter the applicable information in to the fields. Fields with a red * *are required.* Once complete select the save button.

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After you have selected the save button, you will see a note listing your modified date. Once you see this confirmation. Click on the My Proposals tab.



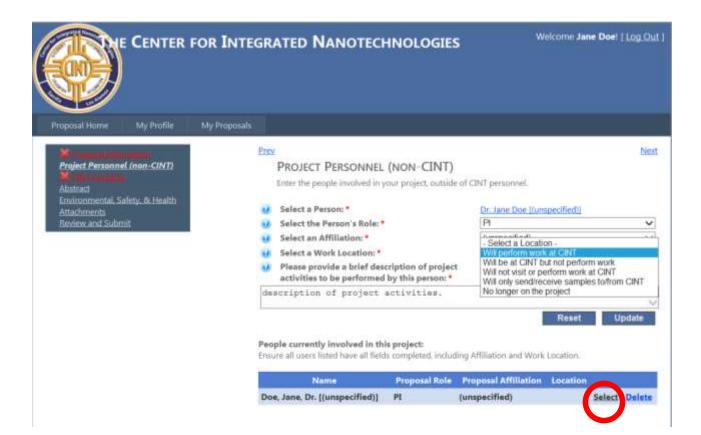
You currently have 0 proposals in draft, and have submitted 0. Club to view or create proposals.

<u>Proposal Information</u>. Enter the information in to the data fields. Fields with a red * are required. Once complete click "next" in the upper right hand corner of the screen.

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| | Listing of publications, patents, gig | |

Project Personnel (non-CINT). Enter the information in to the data fields regarding the users that will be participating on this proposal.

You will note at the bottom that you are defaulted as the PI. Click on the "Select" hyperlink under location and fill in the applicable information for your intended time as a user of the facility.



To add additional personnel, click on the blue hyperlink "click to Select or Enter a New person".

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A box will pop up asking you to first search for a person, this will help cut down on duplicate profiles. Begin by either typing in an email address or name of the project personnel. If the person you are entering appears, press the select button. If they do not appear, click on the link that reads "I need to enter a new person"

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| | 49 | Heather | 1 | (unspecified) | Select | |

Once you have selected your project personnel, fill in the rest of the fields and select the "add" button. If you would like to clear the selection, select the "reset" button

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| | Name | Role | Affiliation | Location | | |
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| | Brown, Heather, Ms. [Sandia National Labs] | co-DI- | Sandia National Labs | SamplesOnly | Select | Delete |

As you add your project personnel, you will see them added to your project personnel list at the bottom of the page. Once your selections are complete, click on the "next" link on the upper right corner of your screen.

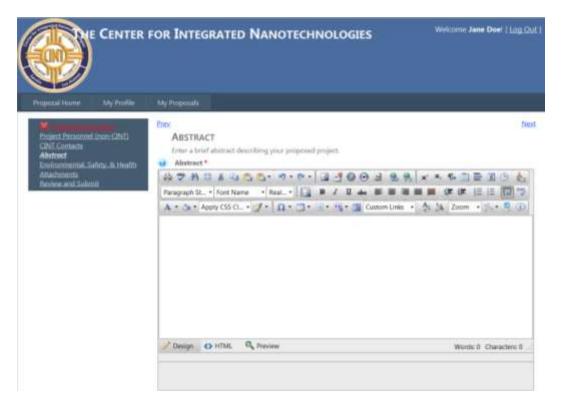
CINT Contacts.

Please select CINT scientists from the dropdown menu provided who you would like Please note that you can select only one LEAD scientist, and multiple Support scientists. One Lead scientist must be selected per proposal.

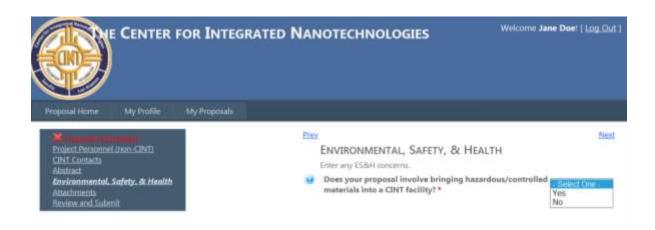
*If your proposal will be accessing the <u>Integration Lab</u> (CleanRoom), please select John Nogan, the Integration Lab manager, as either the Lead or support scientist *If your proposal will be accessing the <u>TEM</u>, please select Katie Jungjohann as either the Lead or support scientist

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| | CINT Proposal Scientists (must choose one Lead a Native Bachand, George, Dr. [CINT] Nogan (Integration Lab), John, [CINT] Kellogg, Gary, Dr. [CINT] Jungjohann, Katie, [Sandia National Laboratories] | nd zero or many Suppo Proposal Role CINT Lead CINT Support CINT Support CINT Support | rt): Select Select Select Select | Save Delete Delete Delete |

As you add your CINT scientists, you will see them added to your proposal scientists list at the bottom of the page. Once your selections are complete, click on the "next" link on the upper right corner of your screen. **Abstract:** Enter a brief abstract describing your proposed project. Figures are allowed. Once you've entered your abstract, click on the "next" link on the upper right corner of your screen.



Environmental, Safety & Health: Answer the required question regarding any ES&H concerns/issues. Once your selection is complete, click on the "next" link on the upper right corner of your screen.



Attachments: To upload your 2 page pdf proposal, click on the browse button.

| | FOR INTEGRATED NANOTECHNOLOGIES | Welcome Jane Doe! Log Dul |
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| Proposal Home My Profile | My Proposals | |
| M Project Personnel (non CPAT) CINIT Contacts Abstract | ATTACHMENTS Enter any attachments to your proposal. | binst |
| Environmental, Salety, & Health Attachments Bedex and Sulemit | Enter your two-page PDF * | Browse Upload |

Once you have selected your CINT proposal, select the upload button



Once your upload is complete you will see a notice stating that your file was uploaded successfully. To replace the current uploaded proposal select the "change" button. Once complete click "next" in the upper right hand corner of the screen.



Review and Submit: Once you have reviewed your proposal, you may print a copy of the proposal by selecting the link "Click for printer-friendly version" and you may submit your proposal by selecting the "submit" button at the upper right corner or bottom right hand corner of your screen.

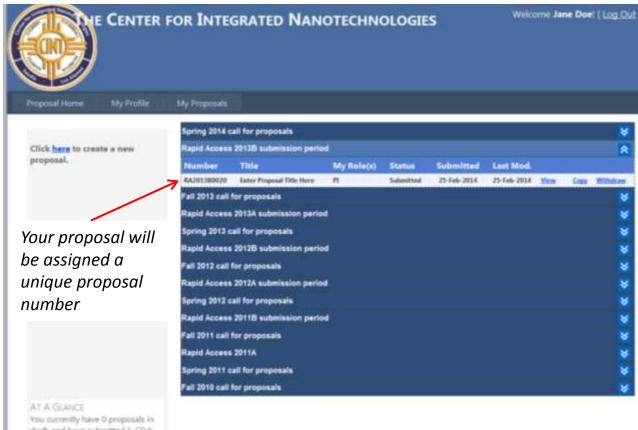
If you have not completed all the required fields within a section, you will be given an error message. You will need to go to the section(s) with a **red X** and complete the required fields prior to submitting your proposal

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| Progress | | Listing of publications, patents, etc. | |
| Funding Source: | | DOE: Office of Basic Energy Sciences | |
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| PI Name D | ton tone Dr. Donner(fied) | | |
| | loe, Jane, Dr. [(unspecified)] Other | | |
| Affiliation Type: C | AL HER | | |

Once your proposal has been submitted you will see a confirmation message. You should also receive an email confirmation. If you do not receive an email confirmation, please first check your profile to make sure you entered the correct email address.



When proposal has been submitted you can click on the "My Proposals" tab where you will see your proposal listed under the current call with a status shows as "submitted" as well as proposal number. Once a proposal has been submitted you will not be able to delete or edit a proposal. Your options are to "View", "Copy" or "Withdraw" your proposal. If you need to make changes to the proposal please withdraw the current proposal, copy it and resubmit once the changes are complete. When you have finished your can Log Out of the system using the button on the top right hand corner of your screen.



You currently have 0 proposals in draft, and have submitted 1. Click here to view or create proposals.

Your "at a glance" has now been updated to show that you have submitted 1 proposal

For any questions, please contact CINT User Program Manager: Heather Brown @ <u>hdbrown@sandia.gov</u>