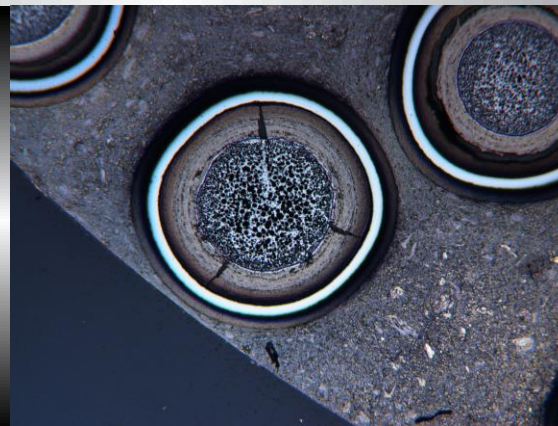
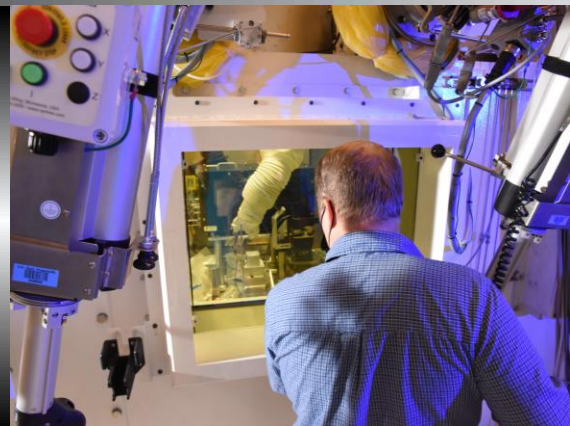


Rapid Turnaround Experiments

Anna Podgorney
Rapid Turnaround Experiments Administrator

NSUF Annual Review
April 14-18, 2024



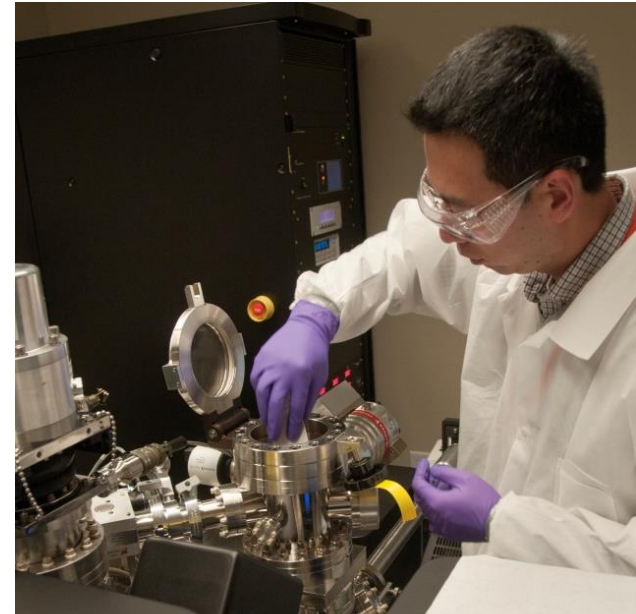
INL/CON-24-77505

4/15/2024

NSUF RTE Overview

Rapid Turnaround Experiments (RTEs) offer researchers the opportunity to perform irradiation effects studies of *limited* scope on a *small* number of samples. Completion of RTE projects is expected within 9 months of award. Irradiation experiments that require use of the ATR, MITR, TREAT, or HFIR reactors do not qualify as *rapid* turnaround experiments.

RTE solicitations are typically on a 4-month cycle from the opening of the call to announcement of awards and calls are typically opened 3 times per year.



FY 2023 & FY 2024 1st Call RTE Calls

2022

July								August								September								October								November								December									
wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su		
26							1	31		1	2	3	4	5			35						1	2	40	1	2	3	4	5	6	7	44							1	2	51	17	18	19	20	21	22	23
27	2	3	4	5	6	7	8	32	6	7	8	9	10	11	12	36	3	4	5	6	7	8	9	41	8	9	10	11	12	13	14	45	5	6						52	24	25	26	27	28	29	30		
28	9	10	11	12	13	14	15	33	13	14	15	16	17	18	19	37	10	11	12	13	14	15	16	42								46								53									
29	16	17	18	19	20	21	22	34	20	21	22	23	24	25	26	38	17	18	19	20	21	22	23	43	22	23	24	25	26	27	28	47	19	20	21	22	23	24	25	54									
30	23	24	25	26	27	28	29	35	27	28	29	30	31			39	24	25	26	27	28	29	30	44	29	30	31					48	26	27	28	29	30			55									
31	30	31																																															

2023

January								February								March								April								May								June							
wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su
1		1	2	3	4	5	6	5					1	2	3	9								17					5	6	7	18		1	2	3	4	5	22						1	2	
2	7	8	9	10	11	12	13	6	4	5	6	7	8	9	10	10	4	5	6	7				18	12	13	14					19	6	7	8	9	10	11	12	23	3	4	5	6	7	8	9
3	14	15	16	17	18	19	20	7	11	12	13	14	15	16	17	11	11	12	13	14				19	19	20	21					20	13	14	15	16	17	18	19	24	10	11	12	13	14	15	16
4								8	18	19	20	21	22	23	24	12	18	19	20	21	22	23	24	20	22	23	24	25	26	27	28	21	20	21	22	23	24	25	26	25							
5	28	29	30	31				9	25	26	27	28				13	25	26	27	28	29	30	31	18	29	30						22	27	28	29	30	31			26	24	25	26	27	28	29	30

July								August								September								October								November								December									
wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su	wk	Mo	Tu	We	Th	Fr	Sa	Su		
27	1	2	3	4	5	6	7	34	19	20	21	22	23	24	25	38	16	17	18	19	20	21	22	40	1	2	3				1	47	18	19	20	21	22	23	24	51	16	17	18	19	20	21	22		
28	8	9	10	11	12	13	14	35	26	27	28	29	30	31		39	23	24	25	26	27	28	29	41	7	8	9	10			6	7	8	48	25	26	27	28	29	30		52	23	24	25	26	27	28	29
29	15	16	17	18	19	20	21									40	30							42	14	15	16	17	18	19	20	21	22	49								53							
30	22	23	24	25	26	27	28									41	6	7	8	9	10	11	12	43	21	22	23	24	25	26	27	54																	
31	29	30	31													42	13	14	15	16	17	18	19	44	28	29	30	31				55																	

New in FY 2024

RTE Call Webinars

- Rongjie Song (NSUF)
- Keith Jewell (NSUF)

RTE Individual Question and Answer Sessions

- Rongjie Song (NSUF)
- Keith Jewell (NSUF)

Super RTE Call

- Call open from April 1 through April 30, 2024
- Broader scope
- Increased project duration

NSUF RTE Proposal Review

Programmatic Reviews

- Christopher Barr (DOE)
- Keith Jewell (NSUF)
- Rongjie Song (NSUF)

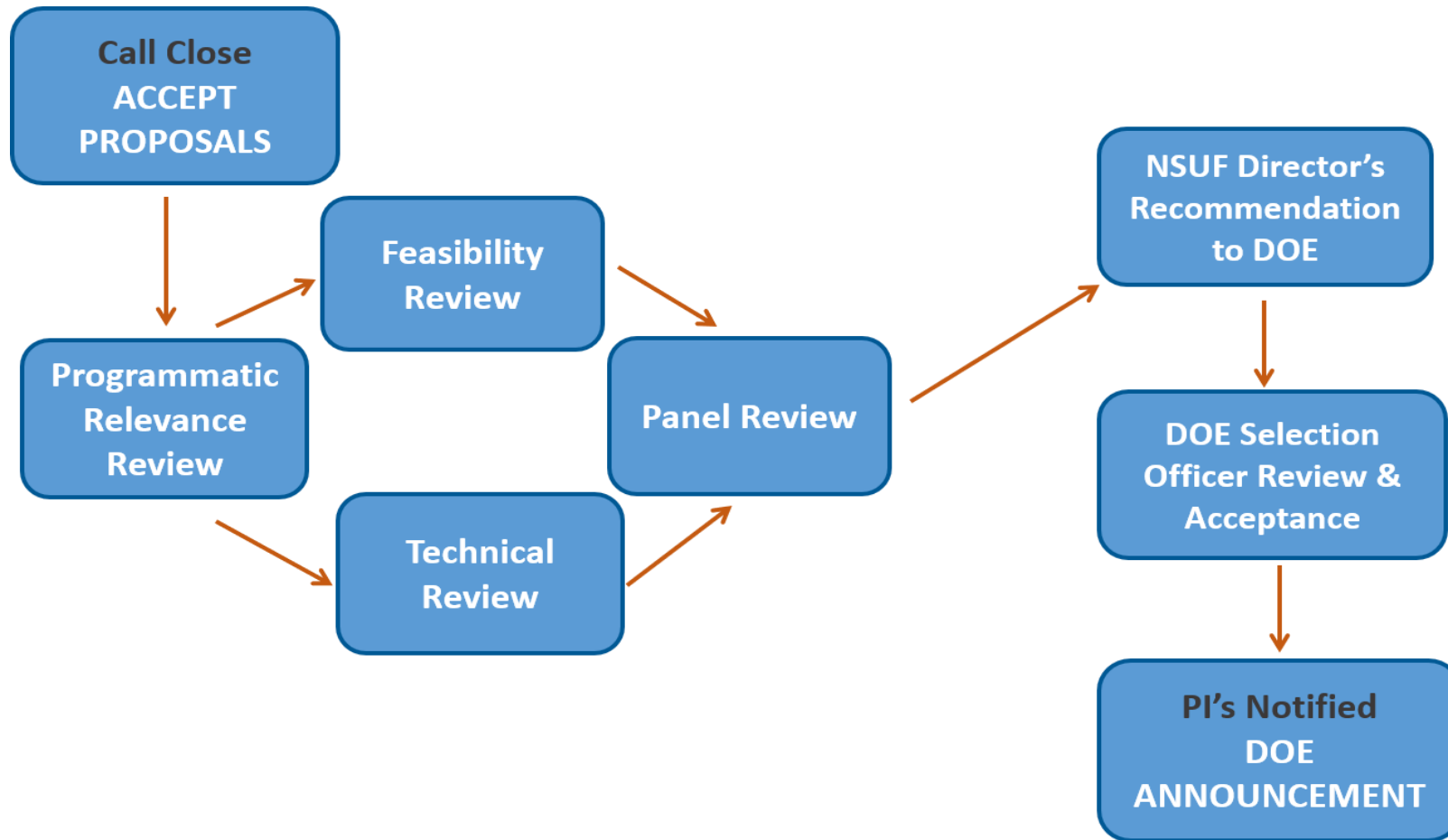
Feasibility Reviews

- Partner Facility Contacts

Technical Reviews

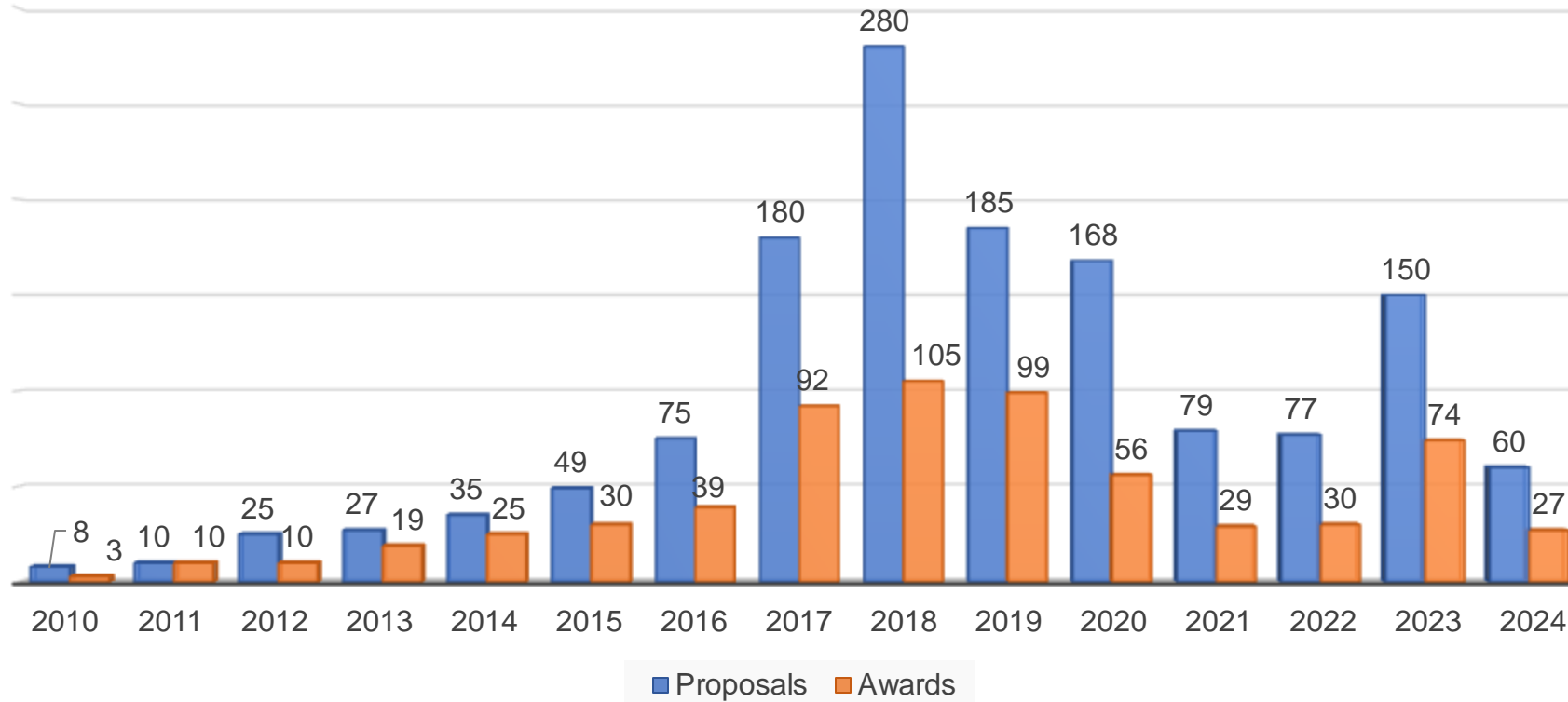
- Scientific merit (50%)
- Technical feasibility (30%)
- Capability of the group (20%)

RTE Solicitation Review Process



RTE Proposals/Awards

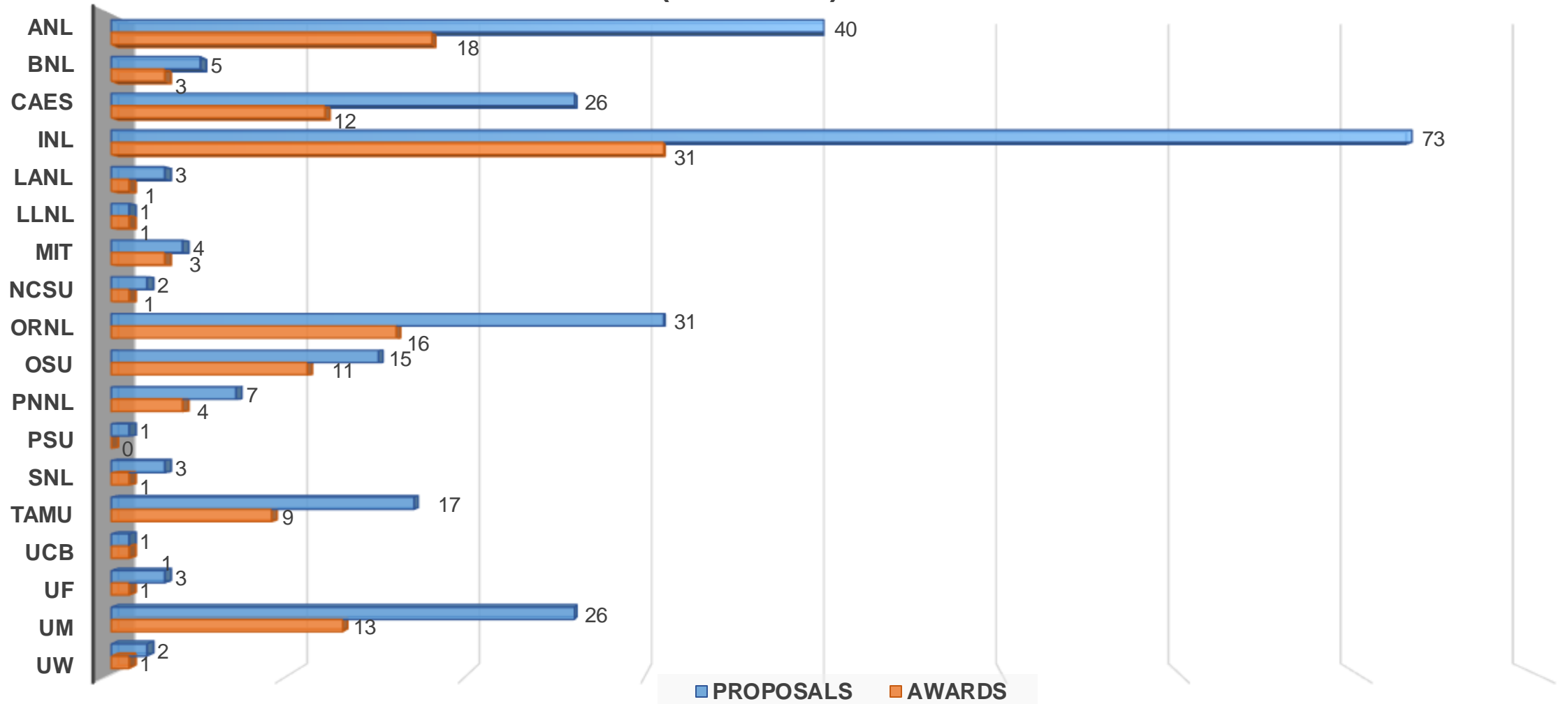
NSUF RTE Growth



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	TOTAL
Proposals	8	10	25	27	35	49	75	180	280	185	168	79	77	150	60	1408
Awards	3	10	10	19	25	30	39	92	105	99	56	29	30	74	27	648

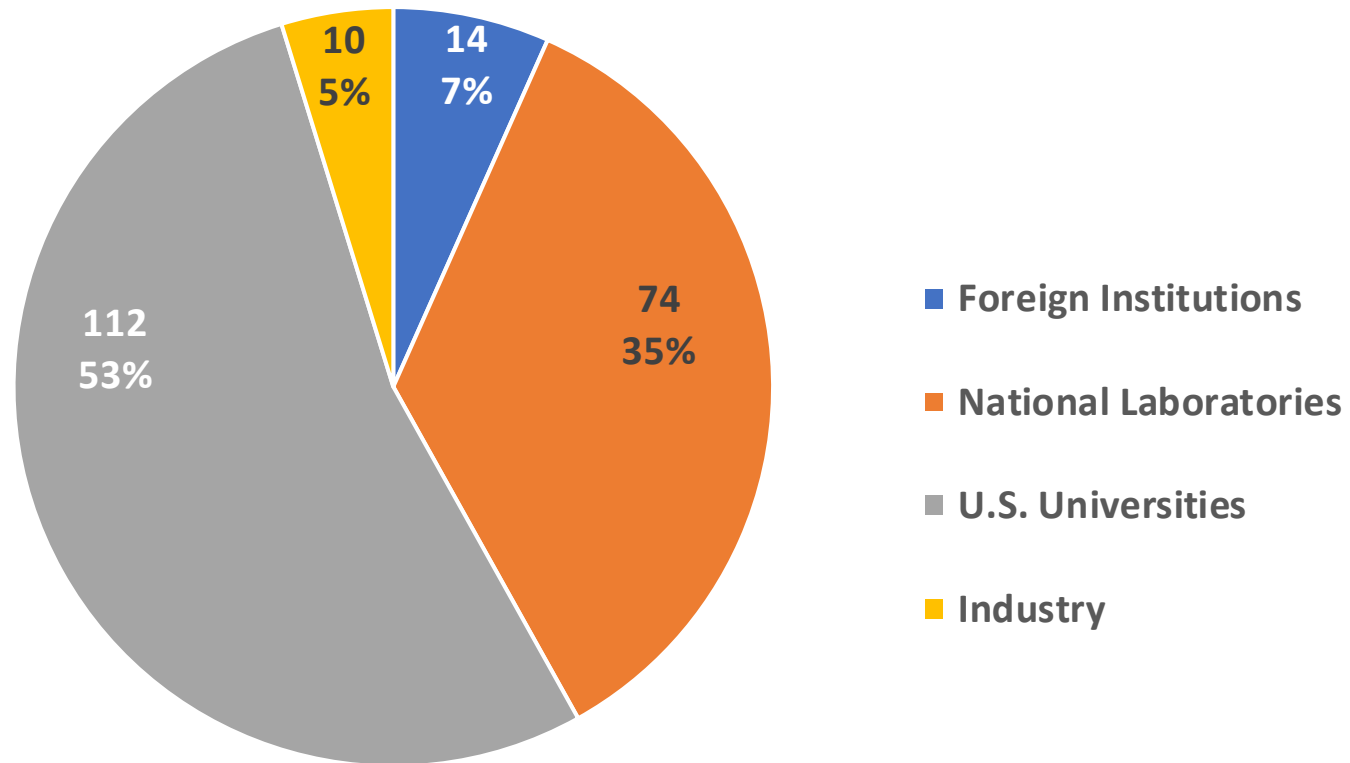
Facility Requests

FY 2023 AND FY 2024 (1ST CALL) RTE FACILITY REQUESTS



What Type of Institutions?

Submitted Proposal Institution Type (FY 2023 and FY 2024 1st Call)



NSUF RTE Growth

150 Submittals from 56 institutions in FY 2023

60 Submittals from 28 institutions in FY 2024 (1st Call)

35 U.S. University

Boise State University
Carnegie Mellon University
Clemson University
Drexel University
Florida State University
Idaho State University
Johns Hopkins University
Kansas State University
Massachusetts Institute of Technology
Missouri University of Science and Technology
North Carolina State University
Oregon State University
Pennsylvania State University
Purdue University
Rensselaer Polytechnic Institute
Stony Brook University
Texas A&M University
The Ohio State University
United States Naval Academy
University of Alabama
University of California-Berkeley
University of California-Irvine

University of California-Santa Barbara
University of Florida
University of Idaho
University of Illinois
University of Maine
University of Michigan
University of Mississippi
University of Nebraska-Lincoln
University of Nevada-Reno
University of New Mexico
University of Pittsburgh
University of Tennessee-Knoxville
University of Wisconsin

10 National Laboratory/Government

Argonne National Laboratory
Brookhaven National Laboratory
Idaho National Laboratory
Los Alamos National Laboratory
NASA Glenn Research Center
National Energy Technology Laboratory
Oak Ridge National Laboratory
Pacific Northwest National Laboratory
Sandia National Laboratory
Savannah River National Laboratory

9 Industry

AwareAbility Technologies LLC
Dominion Engineering
Flibe Energy
General Atomics
General Electric Global Research
H3D Inc.
Kairos Power
KVA Stainless
NorthStar Medical Radioisotopes

11 International

Candu Energy/SNC-Lavalin
Italian Institute of Technology
Middle East Technical University
National Tsing Hua University
Nigerian Nuclear Regulatory Authority
Politecnico di Milano
Seoul National University
University of Calgary
University of Manchester
University of Rouen Normandy
University of Tokyo

■ Proposals ■ Awards

Awards by Institution Type

Institution Type	FY 2023 Awards	FY 2024 (1 st Call) Awards
U.S. Universities	43	8
National Laboratories	27	16
Foreign Institutions	2	3
Industry	2	0
Total	74	27

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