WEBVTT

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00:00:11.460 --> 00:00:25.909
Manish Parashar (CISE OAC DD): Well, good afternoon, everybody. My name is Mohnish Perarsher. I'm. The office director of the office Advanced Cyber infrastructure. Ah! And it's my pleasure to welcome you to this Webinar

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00:00:25.920 --> 00:00:37.879
Manish Parashar (CISE OAC DD): on the cyber training and the sky. So the stations. So let me put out some context and hand it out over to my colleagues, who are the who will lead this Webinar,

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00:00:37.890 --> 00:00:45.120
Manish Parashar (CISE OAC DD): so, O, you see, has outlined its vision for a cyber infrastructure ecosystem, and we

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00:00:45.200 --> 00:01:07.539
Manish Parashar (CISE OAC DD): ah viewed fiber infrastructure broadly to include many of the resources and services. But we do see the people aspect of the ecosystem as one of the key components. This includes the cyber infrastructure professionals, the researchers, the the developers of cyber infrastructure as a key

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00:01:07.620 --> 00:01:18.750
Manish Parashar (CISE OAC DD): part of this broader ecosystem playing a very critical role and these solicitations target exactly that community cyber

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00:01:18.860 --> 00:01:47.680
Manish Parashar (CISE OAC DD): focuses on the training and and the and and the development of training material for Ah, the Cyber infrastructure professionals and Skype is a new solicitation that's focused on building a community of cyber infrastructure professionals that can serve the broader science and aging research community. So with those folks, I once again like to welcome you to this Webinar and i'll hand it over to the cognizant program officers

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00:01:48.740 --> 00:02:02.059
Manish Parashar (CISE OAC DD): to of this ah program ashok shin of awesome Tom L. Branson and Juan Lee. Ah! And also thank them for their leadership on on this working group. So over to you.

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00:02:02.340 --> 00:02:10.329
Juan Jenny Li (NSF/OAC): Great! Thank you. Vanish, welcome everyone to this Webinar today on cyber training and scribe.

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00:02:10.639 --> 00:02:28.690
Juan Jenny Li (NSF/OAC): Good afternoon, everyone. My name is Jenny Lee, and i'm a program director of size o Ac. Last year a shawl and I. We run this, if you remember him. Time fries. It has been almost one year Now

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00:02:28.700 --> 00:02:40.290
Juan Jenny Li (NSF/OAC): the good news is that our program is growing. Last year we we see a large number of proposals that our program has grown into two programs, several training and Skype,

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00:02:40.300 --> 00:02:49.049
Juan Jenny Li (NSF/OAC): the two combined together a large you than the last year's program. We're done everyone, and we look forward to your submission again.

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00:02:49.200 --> 00:03:09.080
Juan Jenny Li (NSF/OAC): Now let me introduce two of my colleagues, a Shaw. It's the lead for the new silver training program, and Tom is the cody of the new sky program. Let's welcome a shore and turn to present. The rest of the slides, and all three of us will stay to answer questions in the end.

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00:03:11.520 --> 00:03:14.189
Ashok Srinivasan: Thanks, Jen. We will stop them.

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00:03:14.200 --> 00:03:31.399
Ashok Srinivasan: Presentation with an overview of the cyber training program followed by the Skype program, and we will finally answer Ah, questions from you. The details of the program are actually available in the software station. So we highlight the important aspects.

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00:03:31.690 --> 00:03:44.230
Ashok Srinivasan: The recording of this Webinar will be available on the program page for the purpose of the solicitation. Ci refers to cyber infrastructure, which includes

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00:03:45.050 --> 00:03:58.660
Ashok Srinivasan: resources, tools, methods, and services for advanced computation, large-scale data, handling, networking and security to enable and transform science and engineering research.

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00:03:58.670 --> 00:04:12.429
Ashok Srinivasan: The target communities are that are at various stages of that carrier pipeline, you know, for example, undergraduates, graduates, students, researchers, educators, as well as Ah, what we call Ci professionals.

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00:04:12.650 --> 00:04:24.190
Ashok Srinivasan: So the cyber training and Skype program focus on the three different scientific communities which I will summarize. Ci contributors are computational and data scientists and engineers

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00:04:34.480 --> 00:04:42.039
Ashok Srinivasan: who want to effectively exploit advanced c. A. Capabilities and methods for their research. Finally, ca professionals.

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00:05:27.600 --> 00:05:36.909
Ashok Srinivasan: However, uh we just want to caution that there is a simplified view, and the solicitations provide more detail guidance. So please use this only as a high-level view.

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00:05:37.090 --> 00:05:38.849
Ashok Srinivasan: If you want to develop

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00:05:48.600 --> 00:05:51.059
Ashok Srinivasan: available for research and education.

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00:05:51.200 --> 00:05:52.990
Ashok Srinivasan: If you want to perform.

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00:06:06.020 --> 00:06:22.699

Ashok Srinivasan: If you want to support research that uses Ci and also foster ci professionals, carriers, then the Skype program may suit you, you would support research, and that leverage is ci and establish carrier paths for the Ci professionals

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00:06:22.710 --> 00:06:36.689
Ashok Srinivasan: is we importantly, at benefit groups that are currently underserved with respect to the use of Ci for research. Finally, if you want to provide training on Ci for research purposes that a cyber training program may interest you.

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00:06:36.700 --> 00:06:43.670
Ashok Srinivasan: You deliver a scalable and sustainable training to help increase the research workforce that can leverage Ci.

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00:07:09.160 --> 00:07:18.200
Ashok Srinivasan: There also need to foster a broader adoption of existing Ci resources, tools, and methods by diverse research communities.

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00:07:59.250 --> 00:08:11.979
Ashok Srinivasan: This embraces configuration as a third builder and data to, and signs of the fourth pillar of the scientific discovery process, augmenting the traditional first and second pillars of theory and experimentation.

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00:08:12.120 --> 00:08:14.889
Ashok Srinivasan: The specific goals of the solicitation,

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00:08:19.490 --> 00:08:27.590
Ashok Srinivasan: methods, and resources by the research community in order to catalyze major research advances, and, second, to integrate

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00:08:27.600 --> 00:08:37.890
Ashok Srinivasan: code, literacy and discipline, appropriate outbound skills in outbound Ci, as well as confidential and data to in science and engineering into the nation's educational curriculum,

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00:08:37.900 --> 00:08:45.090

Ashok Srinivasan: an instruction instructional fabric spanning about undergraduate and graduate courses to advance fundamental research.

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00:08:45.100 --> 00:08:51.340
Ashok Srinivasan: We are perfectly keen on broadening Cia access to groups that are currently underserved in its use.

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00:09:14.750 --> 00:09:25.100
Ashok Srinivasan: We have several Nsf. Divisions participating in this proposal The cyber-training program itself is led by the office of urban cyber infrastructure in the direct rate of

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00:09:25.110 --> 00:09:35.720
Ashok Srinivasan: for computing and information, science and engineering. It has participation from other divisions. For example, the engineering division geosciences,

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00:09:35.730 --> 00:09:47.339
Ashok Srinivasan: education, math and physical sciences, social behavioral sciences, And there are several divisions that you can see over here that are actually participating in this.

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00:10:21.150 --> 00:10:32.369
Ashok Srinivasan: Ah, one thing you could do, for example, is, you could send Jen or me a one-page summary, and identify other divisions of interest and we can always share it with other divisions for feedback. From them

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00:10:34.810 --> 00:10:37.989
Ashok Srinivasan: we now review the key provisions of the current solicitation,

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00:10:52.000 --> 00:10:54.310
Ashok Srinivasan: the implementation projects.

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00:11:28.090 --> 00:11:44.889
Ashok Srinivasan: So next we have the solutions specific criteria out here. All proposals should have well-identified proposal elements that clearly address a solicitation-specific criteria, in addition to addressing the standard, and there's some intellectual method and broader impact criteria.

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00:11:50.240 --> 00:11:55.529
Ashok Srinivasan: So you have a rational for challenges identified for research, workforce development.

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00:11:55.800 --> 00:12:15.259
Ashok Srinivasan: What the strength of the projects plan to address one or more of the solar station goals, namely, to broaden the use of ci methods and resources by the research community, or and or or but integrate ci skills into the institutional and disciplinary curriculum and instructional fabric.

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00:12:15.270 --> 00:12:23.669
Ashok Srinivasan: Note that at least one of these two goals must be addressed. Strong implementation proposals, though, tend to have both components.

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00:12:25.400 --> 00:12:30.340
Ashok Srinivasan: Then the third review criteria, the porting of scalability and sustainability.

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00:12:36.680 --> 00:12:38.090
Ashok Srinivasan: The fifth is that

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00:12:38.100 --> 00:12:48.210
Ashok Srinivasan: effectiveness of the proposed collective impact strategy to establish a coordination network and a backward organization or the effectiveness of an alternate strategy.

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00:12:48.370 --> 00:13:04.180
Ashok Srinivasan: The sixth criteria is the foundness of plants for fostering a suitable community. Pilot Projects must address the first two small implementation projects, markers the first five and medium implementation projects. Address: all six of them.

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00:13:04.340 --> 00:13:10.500
Ashok Srinivasan: I want to clarify that research in education itself is outside the scope of this solicitation

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00:13:14.770 --> 00:13:28.520

Ashok Srinivasan: there are. Each division has its own specific focuses of areas of interest, and the details are given in the solicitation. One common theme is that

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00:13:28.530 --> 00:13:36.780
Ashok Srinivasan: they provide discipline-appropriate training on Ci for to search purposes. Please see the frustration for further details on that.

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00:13:49.620 --> 00:13:53.070
Tom Gulbransen NSF/OAC: Thank you. Sharp. Let me just uh jump over to

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00:13:56.280 --> 00:13:58.219
Tom Gulbransen NSF/OAC: this screen, I believe.

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00:14:04.750 --> 00:14:06.770
Tom Gulbransen NSF/OAC: Are you seeing my slide properly?

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00:14:11.120 --> 00:14:30.410
Tom Gulbransen NSF/OAC: Okay. Thank you and thanks. Everybody who's signed on here registered to be part of this day out of interest, and that's the encouraging um. I'm going to go through the strike program this this second program, which is new, but it's actually just spawned from cyber training of last year. It's the third class of last year

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00:14:30.550 --> 00:14:39.060
Tom Gulbransen NSF/OAC: been lifted up and given a little bit more refinement. So there'll be some parts of it that are new.

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00:14:39.190 --> 00:14:41.500
Tom Gulbransen NSF/OAC: Do anticipating um

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00:14:43.030 --> 00:14:52.569
Tom Gulbransen NSF/OAC: the Skype details. Let me just give you these couple definitions in perspective to start things off strengthening. What is it? What does it mean?

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00:14:53.010 --> 00:14:59.909

Tom Gulbransen NSF/OAC: Democratization to democratize means to make the role of providing ci services available to everyone? The

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00:14:59.920 --> 00:15:06.210
Tom Gulbransen NSF/OAC: been a theme of our office for a while, and if you checked on some of those blueprints that the office has published you,

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00:15:06.400 --> 00:15:12.520
Tom Gulbransen NSF/OAC: this program is very much trying to advance those. So there's numerous ways to get there to

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00:15:12.590 --> 00:15:24.879
Tom Gulbransen NSF/OAC: achieve broader involvement. We are invited to craft various means to get there, to engage more, to invite more widely, and while we need more people and more individuals to become proficient,

62
00:15:24.970 --> 00:15:29.790
Tom Gulbransen NSF/OAC: the invitation is also for you to write proposals which will increase the connectivity,

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00:15:29.900 --> 00:15:31.630
Tom Gulbransen NSF/OAC: and it's connectivity

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00:15:31.810 --> 00:15:41.640
Tom Gulbransen NSF/OAC: to the research community. And so the research community can express their needs. So it's both directions, and then also the profession itself

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00:15:41.650 --> 00:15:54.589
Tom Gulbransen NSF/OAC: being a ci professional has a career for some people, and many people have told us that they don't feel like the career path is very clear, so we want that to be strengthened. We want

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00:15:54.850 --> 00:16:02.970
Tom Gulbransen NSF/OAC: hear about ideas for increasing the institutionalization, if that's or of these skills and services and pathways,

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00:16:02.980 --> 00:16:17.159
Tom Gulbransen NSF/OAC: So the ecosystem itself. What is that you know, the boundaries ought to be seen, as Maniche mentioned earlier, inclusively all the five technologies. But systems or software. Or data or networking

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00:16:18.200 --> 00:16:33.909
Tom Gulbransen NSF/OAC: as well as across the range of job titles. We don't and all intend to try to split focus between one job, title and somebody else might have a different role. We want to be more inclusive, as many I mean. I'm sorry as I shall point it out

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00:16:34.190 --> 00:16:35.390
Tom Gulbransen NSF/OAC: it's too

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00:16:35.460 --> 00:16:54.020
Tom Gulbransen NSF/OAC: cyber-structured professionals that we're trying to focus on in Skype, or those who are serving the research community are delivering these services on these technologies to researchers. So we're in the deployment mode as contrasted with fiber training where it's more about skilled development or preparation.

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00:16:54.030 --> 00:17:13.430
Tom Gulbransen NSF/OAC: And another part of the ecosystem word that gets used here that we're trying to strengthen what is an ecosystem. It's a bunch of things put together, right? And so it's the interdependencies, the interfaces, the exchanges of resources between elements. That's part of what we see that the sky program is trying to do,

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00:17:13.440 --> 00:17:26.349
Tom Gulbransen NSF/OAC: and it's intended to be done formally, and informal relationships are expected to enable these resources to be exchanged. You've heard, and you'll hear more about leveraging.

73
00:17:26.359 --> 00:17:42.150
Tom Gulbransen NSF/OAC: That means that type is not intended to be performed by itself. And, in fact, in this illustration it says, What percentage of your effort is intended to directly connect with the access program as a computational support Science support network

74
00:17:42.160 --> 00:17:53.379

Tom Gulbransen NSF/OAC: in the access. That's a program that you'll be connecting to, and then you'll have opportunities to figure out how else to connect to other programs. I'll give you a few examples in a little bit.

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00:17:53.450 --> 00:17:59.259
Tom Gulbransen NSF/OAC: So we look forward to your ideas of how to cultivate and motivate these threads of connectivity.

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00:17:59.620 --> 00:18:18.590
Tom Gulbransen NSF/OAC: Um! To get into more details, the proposals ought to describe how they'll advance the long-term vision which is restated here. I will read the whole thing to you. It's not required that you touch at every facet of it. But certainly we want to pursue that scalability.

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00:18:18.880 --> 00:18:29.690
Tom Gulbransen NSF/OAC: Many of you, I'm sure, are familiar with the exceede program which has gone on for a decade, and in that there was an Ecss program that provided services to many researchers across the country

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00:18:29.940 --> 00:18:31.290
Tom Gulbransen NSF/OAC: success.

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00:18:31.300 --> 00:18:47.140
Tom Gulbransen NSF/OAC: The access program continues to provide some of those services. This program intends to expand that even for that we're trying to scale it out more widely. So we look forward to proposals that will enable that scaling to occur

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00:18:49.700 --> 00:19:08.329
Tom Gulbransen NSF/OAC: which needs will be met, which needs, do you think are the most important to to serve for you, to propose science-driven and research you are facing is really what we expect to see will be the most compelling proposals. That's how

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00:19:09.010 --> 00:19:19.979
Tom Gulbransen NSF/OAC: the approach can be agile and can evolve. If we can see that you're tuned into a particular domain, or a group of researchers

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00:19:20.540 --> 00:19:36.420
Tom Gulbransen NSF/OAC: listening and responsiveness that we look forward to in this. In the proposals here, you're not required to do this by yourself. I've mentioned access before. I'll show it again later on. Access by the way, is advanced cyber, infrastructure, coordination,

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00:19:36.430 --> 00:19:49.189
Tom Gulbransen NSF/OAC: ecosystem of support and services. So that's a program that's referenced. And you'll look into that a little bit. It's still being rolled out. This is the first year of operations, but the user supports part of access is

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00:19:49.200 --> 00:19:53.350
Tom Gulbransen NSF/OAC: where this is very much a related initiative.

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00:19:54.180 --> 00:20:11.949
Tom Gulbransen NSF/OAC: Ah, you're invited to propose democratization methods aimed wherever and however you foresee that inclusion of new diverse participants can be achieved efficiently and sustainably. We we don't just want to see drive by drop by engagements we'd like to to see how this can enable

86
00:20:12.180 --> 00:20:14.399
Tom Gulbransen NSF/OAC: future relations to persist.

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00:20:14.640 --> 00:20:16.480
Tom Gulbransen NSF/OAC: And then

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00:20:17.890 --> 00:20:26.459
Tom Gulbransen NSF/OAC: it's definitely a place where Skype is new and different from before, and that is in this institutional focus we look forward to

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00:20:26.470 --> 00:20:38.000
Tom Gulbransen NSF/OAC: helping individuals get together. A new way is helping connect connections to happen in new ways, and we hope we can see that institutions will change because we've been hearing from so many and us

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00:20:38.150 --> 00:20:49.309

Tom Gulbransen NSF/OAC: seeking support to help the pathways for staff professionals to be clearer. So we hope to see that, and we'll talk more about how that will be expressed.

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00:20:49.320 --> 00:21:06.660
Tom Gulbransen NSF/OAC: Um director. It's involved many um, and as a scholar mentioned, you're invited to. In fact, you're expected to make connections with these directories, so that we can see a combination of cyber leaders strawberry, and for our leadership with science-driven

92
00:21:06.670 --> 00:21:26.409
Tom Gulbransen NSF/OAC: needs and initiatives that are of value. I would note one, though at the bottom of this list is the technology. Innovation is a partnerships director. That's a newer part of Nsf. And the regional innovations, engines, program and their partnerships for innovation are two programs within tip

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00:21:26.420 --> 00:21:29.349
Tom Gulbransen NSF/OAC: which are particularly um

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00:21:29.750 --> 00:21:37.989
Tom Gulbransen NSF/OAC: interested in seeing how their interests can be combined with this effort in a larger

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00:21:38.720 --> 00:21:55.920
Tom Gulbransen NSF/OAC: fashion than what it was last year. Particular um tip is into um. These teams, and shaping the direction to to catalyze co-design and co-creation, and and particularly the regional

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00:21:56.120 --> 00:22:04.569
Tom Gulbransen NSF/OAC: engines for innovation They're trying to develop diverse coalitions, regional coalitions or use-inspired research

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00:22:04.630 --> 00:22:10.070
Tom Gulbransen NSF/OAC: which promotes workforce development. So that's very much like what we're doing, and the

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00:22:10.160 --> 00:22:19.479

Tom Gulbransen NSF/OAC: the tip folks are seeing this originally focused as well. So we're looking forward to seeing if you can envision ways of combining both programs needs.

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00:22:20.830 --> 00:22:21.940
Tom Gulbransen NSF/OAC: Ooh:

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00:22:22.130 --> 00:22:41.740
Tom Gulbransen NSF/OAC: Oh, yeah. And as I mentioned, if you have an idea and you want to share it sort of a simple executive summary of one pager, and you're not quite sure where to go. I can try to catch some of those, and we can um provide linkages to other directories. Um to help you navigate those collaborations. Andreak and Aab is also part of making that happen.

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00:22:41.950 --> 00:23:00.269
Tom Gulbransen NSF/OAC: Ah, other contextual background comments the level of funding. Of course, that always depends on availability, and as always serving multiple directorates, creates the possibility of recruiting, co-funding. So it's essentially written up as fifteen million ish four awards. That's

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00:23:00.420 --> 00:23:18.960
Tom Gulbransen NSF/OAC: subject to how well we combine forces, and we'll see what it could turn into. Um note that Skype is about deploying and maintaining readiness for ci professional services as contrasted with the cyber training, tools or curriculum material or student development. So that's one of the largest

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00:23:19.320 --> 00:23:34.329
Tom Gulbransen NSF/OAC: distinct distinctions of what Skype is doing. Funding considerations will include an assessment of how your proposal proposed. Approach funds um positions after the award. That's the sustainability part

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00:23:34.540 --> 00:23:43.089
Tom Gulbransen NSF/OAC: you're welcome to focus on any one or more of the unique facings of cip. Again, they should always be science-driven.

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00:23:43.100 --> 00:23:49.269
Tom Gulbransen NSF/OAC: And so what I would like to do is switch to

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00:23:49.340 --> 00:23:59.759
Tom Gulbransen NSF/OAC: sort of a visual depiction. This is not intended to provide new information, but it's intended to provide another way of trying to convey this ecosystem notion that

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00:23:59.770 --> 00:24:16.170
Tom Gulbransen NSF/OAC: been um written and drawn in a lot of different ways, and they're all good. But and there is no one answer. But let me just try to convey a little bit more about how things could connect and what Skype is trying to do within this ecosystem. So access I mentioned is a program dedicated to

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00:24:16.300 --> 00:24:24.190
Tom Gulbransen NSF/OAC: taking these Hpc systems and the capabilities and data and networking and making them available to the research community.

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00:24:24.200 --> 00:24:36.010
Tom Gulbransen NSF/OAC: So the monies from Andsf. Can go out, and they fund H of Pcs. And of course money goes out to fund research efforts. And then there's the cyber training which we just heard about which

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00:24:36.200 --> 00:24:49.360
Tom Gulbransen NSF/OAC: can fund individuals. It can fund institutions. It can fund networks across communities or across institutions, and so examples of cyber-training and cyber infrastructure professional

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00:24:49.670 --> 00:25:06.699
Tom Gulbransen NSF/OAC: funding programs that might be relevant. It's like the Research coordination network of C. I. P. The center of excellence. Ah, the Rcd nexus that program has made connections and is pursuing things that are very much parallel to what this program Skype

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00:25:06.710 --> 00:25:12.739
Tom Gulbransen NSF/OAC: also wants to advance, so maybe there are opportunities to benefit from common. La there.

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00:25:13.340 --> 00:25:14.510
Tom Gulbransen NSF/OAC: So

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00:25:14.990 --> 00:25:17.100
Tom Gulbransen NSF/OAC: there are

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00:25:18.730 --> 00:25:34.890
Tom Gulbransen NSF/OAC: the particular tools or assets and utilities that we have seen invested in that are a part of the access program, for example, which are dedicated to making the Hpc. Assets available, and getting researchers through gateways into these

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00:25:35.240 --> 00:25:54.150
Tom Gulbransen NSF/OAC: Hbc systems, or to make best use of it green. So where does Skype fit in Skype would be a way for institution-level connections to be made where individuals can be German institutions could join each other regionally, or in a topic area.

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00:25:54.310 --> 00:26:11.790
Tom Gulbransen NSF/OAC: And then that blend, or the combine, the collaboration with the researchers in the middle pushes through to maybe a particular platform, or maybe more generically. So that's what Skype is trying to be deploying

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00:26:13.000 --> 00:26:31.030
Tom Gulbransen NSF/OAC: folks, recognizing their roles and hopefully improving some institutional structures. So to to close. I just want to reiterate the goals, and I won't read them completely verbatim. But we're trying to motivate the creation of researcher facing C Ip communities

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00:26:31.040 --> 00:26:35.379
Tom Gulbransen NSF/OAC: workforce diversity that democratization is prime.

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00:26:35.570 --> 00:26:49.249
Tom Gulbransen NSF/OAC: Ah! We like to see that the cip workforce is recognized, particularly the value of it to the researchers best practices. We're not about training per se. But along the way, as these groups are

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00:26:49.260 --> 00:26:55.810
Tom Gulbransen NSF/OAC: strengthened, there'll be materials that can be made available to others. Perhaps that's that's looked for.

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00:26:55.850 --> 00:27:15.320
Tom Gulbransen NSF/OAC: And then, as as short mentioned earlier, this effort is to extend the the third and fourth pillar of the neuroscience data-driven sciences and computation that's important to scientific discovery. And so that's a beginning introduction to our programs. What i'd like to do now is

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00:27:15.330 --> 00:27:16.500
Tom Gulbransen NSF/OAC: um

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00:27:17.160 --> 00:27:20.279
Tom Gulbransen NSF/OAC: highlight. A few questions that we've already fielded

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00:27:20.400 --> 00:27:26.150
Tom Gulbransen NSF/OAC: from folks, and then we'll open up to um some

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00:27:26.280 --> 00:27:33.949
Tom Gulbransen NSF/OAC: interactive review of questions that are going to be in the queue. So right now you can see the first question right

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00:27:35.150 --> 00:27:36.549
Tom Gulbransen NSF/OAC: is there where we are?

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00:27:36.840 --> 00:27:45.540
Tom Gulbransen NSF/OAC: The first question, Then i'd like to provide an answer to, or maybe it'll prompt other questions. Is that it's consultation with a cognizant program officer required

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00:27:45.830 --> 00:27:49.259
Tom Gulbransen NSF/OAC: required Not not no, it's not required,

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00:27:49.270 --> 00:28:01.199
Tom Gulbransen NSF/OAC: but it's strongly encouraged. You can either consult with an Oec officer myself, Andrey Kennedy will be joining us. Even a shocking and Jenny can help, too.

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00:28:01.210 --> 00:28:14.520
Tom Gulbransen NSF/OAC: Um, but we want to get that done a little bit earlier, so we can help you make some connections, and then it could be a documentation of that conversation again. It's not a requirement, but it's encouraged so that you can be. Ah! Your fitness can be as tight as possible.

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00:28:14.990 --> 00:28:21.570
Tom Gulbransen NSF/OAC: Second question is, Can my project primarily train or retrain for jobs in the it industry?

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00:28:21.840 --> 00:28:27.719
Tom Gulbransen NSF/OAC: No. All the proposals, including the cyber security proposals must be

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00:28:27.930 --> 00:28:45.630
Tom Gulbransen NSF/OAC: primarily science-driven, research-oriented and the workforce development to support science women. And it's not just science or research of any kind we're particularly trying to focus on the advanced type of infrastructure Oriented initiatives that we're looking to

135
00:28:45.780 --> 00:28:49.160
Tom Gulbransen NSF/OAC: make it more widely available, or to create new breakthroughs in the

136
00:28:49.230 --> 00:29:02.219
Tom Gulbransen NSF/OAC: it's out of security proposals. I'd be relevant the same way they've got to kind of talk about some part of a scientific workflow. That's if that's an area you don't want to focus on. Hopefully, it'll become obvious in a workflow orientation.

137
00:29:03.070 --> 00:29:08.060
Tom Gulbransen NSF/OAC: And then. Now, this relevance could vary, of course, depending on the targeted folks that are being trained.

138
00:29:09.020 --> 00:29:18.950
Tom Gulbransen NSF/OAC: The last question, I think this earlier ones are: Must you already have a small size, implementation award before you reach up to the next level to the medium-size and answers No.

139
00:29:19.850 --> 00:29:21.630
Tom Gulbransen NSF/OAC: So with that

140
00:29:21.770 --> 00:29:26.150
Tom Gulbransen NSF/OAC: we'll leave this screen of our initial contacts there

141
00:29:26.490 --> 00:29:29.539
Tom Gulbransen NSF/OAC: for folks, and we'll go to um.

142
00:29:30.450 --> 00:29:31.870
Tom Gulbransen NSF/OAC: Q. And A.

143
00:29:32.090 --> 00:29:35.949
Tom Gulbransen NSF/OAC: The panel to see if we have questions in the queue.

144
00:29:36.470 --> 00:29:39.820
Tom Gulbransen NSF/OAC: Um, okay, I can see. So now,

145
00:29:41.030 --> 00:29:57.980
Juan Jenny Li (NSF/OAC): Jenny, did you want to um take the first one. The first question is, is a pilot proposal submission required for a small proposal. Submission? Ah, the is no, they are independent. It can submit in any category to start with.

146
00:29:58.260 --> 00:29:59.570
Tom Gulbransen NSF/OAC: But, yes,

147
00:30:00.510 --> 00:30:03.399
Tom Gulbransen NSF/OAC: the next question is from

148
00:30:03.870 --> 00:30:16.469
Tom Gulbransen NSF/OAC: an anonymous person, that's the solicitation talks about access. Cssn: Can you elaborate what the program expects the engagement outcomes to look like with the access. Css

149
00:30:16.480 --> 00:30:30.850
Tom Gulbransen NSF/OAC: fair question. Thank you. Um, i'm the program officer of that access program. So I should be able to at least start giving you an answer here, and we can go further if you need to go further. That computational science support network is a

150
00:30:31.270 --> 00:30:38.489
Tom Gulbransen NSF/OAC: part of the user support program that access is making available to any and all

151
00:30:38.500 --> 00:30:41.789
Tom Gulbransen NSF/OAC: users of the advanced software infrastructure,

152
00:30:41.800 --> 00:30:50.150
Tom Gulbransen NSF/OAC: or even investigators who are considering writing proposals to do an investigation, using these assets. So

153
00:30:50.610 --> 00:30:56.489
Tom Gulbransen NSF/OAC: what kind of help would be needed? You might need help figuring out which tools are um

154
00:30:56.940 --> 00:31:01.720
Tom Gulbransen NSF/OAC: relevant, or which platform which Hpc. System is best suited.

155
00:31:01.910 --> 00:31:12.390
Tom Gulbransen NSF/OAC: That kind of advice can be requested by going into this access user support interface and seeking an answer to that

156
00:31:12.400 --> 00:31:18.759
Tom Gulbransen NSF/OAC: there'll be some answers provided through a knowledge base that you can interact with on the self-service mode

157
00:31:18.770 --> 00:31:21.519
Tom Gulbransen NSF/OAC: and then there'll be additional levels of

158

00:31:21.640 --> 00:31:29.359
Tom Gulbransen NSF/OAC: support that you can get, which might be a conversation. It might be a couple of weeks of interaction together, or it might be

159
00:31:29.410 --> 00:31:47.140
Tom Gulbransen NSF/OAC: months of time where you have a funded project that you need a particular kind of person to help you achieve a certain data movement and algorithmic computation. So there are these tiers of support and the computational science support network

160
00:31:47.470 --> 00:31:59.369
Tom Gulbransen NSF/OAC: a growing list for those who know what a role index is. It's a growing list of people with different kinds of expertise and experience tagged so that you can

161
00:31:59.650 --> 00:32:00.290
you

162
00:32:00.300 --> 00:32:08.550
Tom Gulbransen NSF/OAC: reach in and see if anybody has done a similar use case to what you are interested in, or would be willing to investigate something with you.

163
00:32:08.560 --> 00:32:16.410
Tom Gulbransen NSF/OAC: So awardees to this program. Skype awardees are expected to have.

164
00:32:16.650 --> 00:32:19.670
Tom Gulbransen NSF/OAC: We'll be readying

165
00:32:20.090 --> 00:32:29.840
Tom Gulbransen NSF/OAC: up to a four different. You know a number of professionals who are particularly suited to help a certain kind of research.

166
00:32:30.140 --> 00:32:44.330
Tom Gulbransen NSF/OAC: Those professionals it doesn't have to be four. It could be eight, that you sharing on a part-time basis. But those people and their skills would be registered and included in that network in that

167
00:32:44.340 --> 00:33:01.530
Tom Gulbransen NSF/OAC: place where other users could ask access for help from, and then we begin to have engagements. It's like Ah, it's actually called matches and matchmaking going on between users who have needs. And um ci professionals who want to help could help. So that's

168
00:33:01.620 --> 00:33:17.290
Tom Gulbransen NSF/OAC: the nature of the interactions that are envisioned. Exactly how many hours, how many weeks what lead time is going to be available to make yourself available. It's not going to be tomorrow,

169
00:33:17.300 --> 00:33:26.410
Tom Gulbransen NSF/OAC: so that's still being worked out. But, generally speaking, That's how Skype awardes are expected to become part of the Css.

170
00:33:26.600 --> 00:33:29.439
Tom Gulbransen NSF/OAC: I hope that answered the question. You ask it again if I didn't

171
00:33:31.710 --> 00:33:38.340
Juan Jenny Li (NSF/OAC): the next question at this point should we introduce Andre, and then maybe we can answer this one.

172
00:33:38.350 --> 00:33:44.300
Juan Jenny Li (NSF/OAC): Okay, sure, I don't. I can't see that hungry is here. I've only have one face on this.

173
00:33:51.510 --> 00:33:55.160
Andrey Kanaev (NSF/OAC): So uh brief introduction is I'm not.

174
00:33:55.550 --> 00:33:56.900
It's a partner,

175
00:34:03.180 --> 00:34:12.419
Tom Gulbransen NSF/OAC: Thank you, Andre. So. The next question in the queue, which we think you might like to answer is how it is advanced, defined

176
00:34:12.500 --> 00:34:15.489
Tom Gulbransen NSF/OAC: the use of the term advanced, c. I.

177
00:34:24.650 --> 00:34:27.520
Andrey Kanaev (NSF/OAC): The dance Fiber infrastructure includes

178
00:34:28.520 --> 00:34:33.840
Andrey Kanaev (NSF/OAC): um all. I will all cyber infrastructure. But in addition to that is um,

179
00:34:35.170 --> 00:34:38.109
Andrey Kanaev (NSF/OAC): the levels are just coming to development.

180
00:34:39.159 --> 00:34:40.330
Um,

181
00:34:41.630 --> 00:34:45.260
Andrey Kanaev (NSF/OAC): I think the parts of it one. Some are actually, of course, uh

182
00:34:45.500 --> 00:34:50.399
Andrey Kanaev (NSF/OAC): our software networking uh data management databases.

183
00:34:51.110 --> 00:34:53.420
Andrey Kanaev (NSF/OAC): So that would be my of

184
00:34:54.699 --> 00:34:56.259
Andrey Kanaev (NSF/OAC): over the head. Answer:

185
00:34:57.490 --> 00:34:58.719
Tom Gulbransen NSF/OAC: Thank you.

186
00:34:59.390 --> 00:35:02.810
Tom Gulbransen NSF/OAC: It's a somewhat of a subjective term right?

187
00:35:02.820 --> 00:35:20.630
Tom Gulbransen NSF/OAC: The next question is, Can we budget the tuition for cyber training participants? For example, the project runs into runs a micro certificate program where participants need register for a course. Can they budget the tuition for that sign of training participant?

188
00:35:22.680 --> 00:35:24.400
Tom Gulbransen NSF/OAC: Jenny, Would you like to take that?

189
00:35:26.850 --> 00:35:28.799
Juan Jenny Li (NSF/OAC): Okay, Um,

190
00:35:28.810 --> 00:35:47.289
Juan Jenny Li (NSF/OAC): Usually we don't use that because so much of the problem, you're supposed to create your own material and then trained, and you're supposed to pay the participants the stipend to kind of stay in your problem. So that's kind of an if you' your situation, if you use your budget to pay for other products,

191
00:35:47.300 --> 00:35:52.580
Juan Jenny Li (NSF/OAC): we expecting you to create the problem. That's the whole idea of our simple training.

192
00:35:53.000 --> 00:35:56.169
Juan Jenny Li (NSF/OAC): A sure any additional one for this?

193
00:35:56.540 --> 00:36:13.690
Ashok Srinivasan: Yes, uh so uh uh, you know, as Jen mentioned how you uh you have a graduate student who is working on creating the curriculum right?

194
00:36:13.700 --> 00:36:21.930
Ashok Srinivasan: And that is like just like any graduate student. You would Ah be able to ah budget for the tuition for that graduate student. So that is how typically that stuff.

195
00:36:24.250 --> 00:36:25.549
Tom Gulbransen NSF/OAC: Thank you.

196
00:36:26.510 --> 00:36:27.700
Tom Gulbransen NSF/OAC: Um.

197
00:36:28.390 --> 00:36:45.819
Tom Gulbransen NSF/OAC: There was a question that disappeared. I think it might be because I tried to type something into it that said, Is there a salary cap, or is there a salary range with regard to cyber infrastructure professionals, and the answer is not absolutely. It's recognized that

198
00:36:45.950 --> 00:36:48.839
Tom Gulbransen NSF/OAC: the salary ranges

199
00:36:51.070 --> 00:36:56.180
Tom Gulbransen NSF/OAC: folks that do these kinds of services ranges widely based on

200
00:36:57.370 --> 00:37:04.399
Tom Gulbransen NSF/OAC: expertise involved and based on geography and based on some levels of experience. So no, there is not a you

201
00:37:05.150 --> 00:37:11.160
Tom Gulbransen NSF/OAC: minimum maximum or anything else there. We expect it to be reflective of the market that you're serving.

202
00:37:12.880 --> 00:37:14.939
Tom Gulbransen NSF/OAC: The next question I have to see is

203
00:37:15.820 --> 00:37:21.900
Tom Gulbransen NSF/OAC: cyber infrastructure. Professionals should come from the Pi's institution or outside.

204
00:37:23.620 --> 00:37:26.399
Tom Gulbransen NSF/OAC: Um, Jenny, do you want to take that, or shall I?

205

00:37:27.970 --> 00:37:45.489
Juan Jenny Li (NSF/OAC): Okay, This is for Skype, right? So usually it's inside the problem, right? But if you want to support someone else. It's okay, too. So But I think you know one's fine as long as you can justify anything else to it, because we're building the whole community.

206
00:37:45.500 --> 00:37:48.889
Juan Jenny Li (NSF/OAC): But this is related to Skype not an inevitably,

207
00:37:48.900 --> 00:37:57.580
Tom Gulbransen NSF/OAC: and I think it's a good question, because as a part of the Skype that says, We're looking for institutional propositions as has contrasted with

208
00:37:57.610 --> 00:38:15.969
Tom Gulbransen NSF/OAC: a number of you know, wonderful unicorn specialists would do it in a free free and open form. This is institutional. Can that institution invite in folks that aren't from the Institution? I would suggest? Yes, yes, and yes, that's part of democratizing

209
00:38:16.190 --> 00:38:19.269
Tom Gulbransen NSF/OAC: to increase that reach and um

210
00:38:19.570 --> 00:38:21.339
Tom Gulbransen NSF/OAC: breath of involvement.

211
00:38:23.520 --> 00:38:34.370
Tom Gulbransen NSF/OAC: The next question I see is, can you say, can you say more about how budgets may be constructed for skype submissions? The only guidance is that it can be,

212
00:38:34.530 --> 00:38:38.999
Tom Gulbransen NSF/OAC: for up to four Fpt: Yeah. So, as mentioned before,

213
00:38:39.090 --> 00:38:42.350
Tom Gulbransen NSF/OAC: there isn't a expected

214
00:38:43.180 --> 00:38:48.310
Tom Gulbransen NSF/OAC: salary for a cyber research or professional. Nor is there a

215
00:38:48.900 --> 00:38:51.490
Tom Gulbransen NSF/OAC: an absolute

216
00:38:51.740 --> 00:38:55.669
Tom Gulbransen NSF/OAC: fix on the fees that can be applied

217
00:38:55.810 --> 00:38:59.070
Tom Gulbransen NSF/OAC: to make the net cost of that person.

218
00:38:59.160 --> 00:39:07.330
Tom Gulbransen NSF/OAC: It doesn't have to be a person. It can be an effort that's spread across a number of people in the Xe program. They were twenty four

219
00:39:07.600 --> 00:39:21.389
Tom Gulbransen NSF/OAC: fts delivered, but in fact, it was performed by sixty three people. So it's a it can be spread. The other part of the answer that I like to try to share is that the budgeting

220
00:39:21.600 --> 00:39:22.839
Tom Gulbransen NSF/OAC: for that proof

221
00:39:22.850 --> 00:39:24.689
Tom Gulbransen NSF/OAC: program for a Skype program

222
00:39:24.700 --> 00:39:44.000
Tom Gulbransen NSF/OAC: would obviously include support for those people and for whatever else you think is vital to the rest of community building, institutional influencing. There is more to it than just the deployment of those professionals to the service engagements that they'll do with their with their research collaborators.

223
00:39:44.570 --> 00:40:02.140
Juan Jenny Li (NSF/OAC): Yes, and another reason why we cannot give a guideline, for fte is the different institution have different pay scale there, and different to all location. Even stayed at different pay scale. So that's why we cannot give a recommendation for the number.

224
00:40:02.150 --> 00:40:05.709
Juan Jenny Li (NSF/OAC): It's up to you. Institution to decide that number.

225
00:40:05.860 --> 00:40:07.999
Juan Jenny Li (NSF/OAC): Yes, great. Thank you.

226
00:40:08.010 --> 00:40:18.360
Tom Gulbransen NSF/OAC: Um. The next question is for cyber training, where the workforce building and engineering of quantum computing is in your radar and relevant to the solicitation.

227
00:40:18.480 --> 00:40:21.390
Tom Gulbransen NSF/OAC: A shock. You might want to start and maybe Andre follow. Yeah.

228
00:40:21.400 --> 00:40:48.449
Ashok Srinivasan: So ah, basically ah, engineering and quantum computing it definitely are a ah extremely relevant topic in terms of workforce development. I should just uh uh add a caveat that we are looking at a research workforce. We are not looking at general work for the Cyber training program. So the motivation for the Cyber training program is that it can have transformative impact on scientific research domain. So that research aspect is very important for cyber train.

229
00:40:48.520 --> 00:40:54.630
Ashok Srinivasan: So if it's for research work first and definitely, these are very relevant topics.

230
00:40:57.690 --> 00:40:58.770
Tom Gulbransen NSF/OAC: Thank you.

231
00:40:59.390 --> 00:41:02.039
Tom Gulbransen NSF/OAC: Give me a moment on the next question. I

232
00:41:03.460 --> 00:41:12.569
Tom Gulbransen NSF/OAC: and my understanding this correctly cyber training awards are more focused on training for domain researchers. Looking at using cyber infrastructure,

233
00:41:12.580 --> 00:41:31.259
Tom Gulbransen NSF/OAC: while Skype awards are more focused on training staff devops or data scientists or research software engineers about how to support research teams who are needing to use access to toddbank and and other platforms. It sounded like Skype is intended to be more like the ecss of Vc.

234
00:41:31.270 --> 00:41:47.220
Tom Gulbransen NSF/OAC: As was mentioned during Tom's presentation. So, um I shark! Maybe you should start with that which was the first part was, Is it the case that cyber-training Awards are more focused on training for domain researchers looking to use cyber infrastructure.

235
00:41:48.000 --> 00:41:53.640
Ashok Srinivasan: So the cyber training program focuses on training for all

236
00:41:53.670 --> 00:42:12.289
Ashok Srinivasan: three aspects of the community users, contributors and Ci professionals. So basically if it is training. Then the cyber training program is relevant. So if we go back to slide four, the cyber training program core aspect is providing trading

237
00:42:12.300 --> 00:42:24.809
Ashok Srinivasan: the type programs core aspect is providing support for research and fostering, c. I. Ah, carriers, you know. Tom will add a little bit more to that. But basically if you want to focus on the training. Ah

238
00:42:24.820 --> 00:42:34.750
Ashok Srinivasan: aspect, then the cyber training is relevant to all three communities. But there's clearly some overlooking the type of training that provides, and Tom will add a little bit more to that.

239
00:42:38.560 --> 00:42:39.680
Tom Gulbransen NSF/OAC: Um,

240
00:42:40.080 --> 00:42:51.160

Tom Gulbransen NSF/OAC: Okay. So I don't want to touch the cyber training conversation that a shock just provide. I think that was right on. And then I would agree that the way that question characterized the distinction

241
00:42:51.440 --> 00:43:10.589
Tom Gulbransen NSF/OAC: with respect to Skype, is, it's true? Skype is more focused on training staff or getting staff ready and aware of and deployable in support of research teams who are wanting to access platforms doesn't have to be access to Crowdbank. But

242
00:43:10.600 --> 00:43:30.259
Tom Gulbransen NSF/OAC: yeah, it could be pathos, G and other places. But yeah, that we are. Skype is definitely trying to make um more available and more responsive, more inclusive. The groups of people who will be deploying a lot like the Ecss deployments, which work so well during exceeding

243
00:43:33.340 --> 00:43:35.769
Tom Gulbransen NSF/OAC: the next question is Um,

244
00:43:37.700 --> 00:43:55.630
Tom Gulbransen NSF/OAC: I think it's our proposals allowed to our pools allowed that include development or deployment of new technology to support day-to-day tasks of ci professionals for example, to make better use of tools available to them from Nsf. Or from the other places that are beyond in the South.

245
00:44:00.250 --> 00:44:10.240
Andrey Kanaev (NSF/OAC): Yes, we are, in fact, recognizing the fact that novel tools and all technologies, and more into and cyber infrastructure,

246
00:44:10.280 --> 00:44:12.120
Andrey Kanaev (NSF/OAC): I will require

247
00:44:12.340 --> 00:44:14.420
Andrey Kanaev (NSF/OAC): our help to implement

248
00:44:21.070 --> 00:44:24.489
Andrey Kanaev (NSF/OAC): if you go in far away and new uh computing paradigms.

249
00:44:25.390 --> 00:44:29.669
Andrey Kanaev (NSF/OAC): If you go in, it'll last on you. Ah, computing doles

250
00:44:30.120 --> 00:44:32.709
Andrey Kanaev (NSF/OAC): a small degree so definitely. Yes, thank you.

251
00:44:33.960 --> 00:44:37.919
Ashok Srinivasan: Would you like to? I would like to add a little bit more, you know.

252
00:44:37.930 --> 00:44:55.220
Ashok Srinivasan: Ah, so there is a lot of overlap between different ah programs right? So. Ah, it's not clear to ah like which ah particular program you're looking at. But if you're ah looking at Skype right? The is the focus tool development or the focus is not cooled as well. Right.

253
00:44:55.230 --> 00:45:04.490
Ashok Srinivasan: So, for example, if it's a Cssi program, the focus is on tool. So you have to look at a little bit more about what is the focus? Is it some incidental activity you are doing?

254
00:45:04.500 --> 00:45:06.190
Ashok Srinivasan: Yes, that is fine, right.

255
00:45:06.200 --> 00:45:17.970
Ashok Srinivasan: But is it the focus? If the tool domain is the forecast. Then you actually want to look at perhaps a Cssi or some program like that. There's a lot of overlap. But you need to look at what is the focus and what is incident?

256
00:45:18.970 --> 00:45:20.089
Tom Gulbransen NSF/OAC: Thank you

257
00:45:21.530 --> 00:45:22.879
Tom Gulbransen NSF/OAC: out

258
00:45:23.230 --> 00:45:35.889

Tom Gulbransen NSF/OAC: sharp, I think, Or, Jenny, this might be for you. But let me read off the question We are considering doing a medium program because of our university's experience doing seed, grant type funding to develop training materials,

259
00:45:36.020 --> 00:45:55.530
Tom Gulbransen NSF/OAC: We fund faculty from different fields and schools to collaborate with us, to create courses and course material that use Ci in specific science and engineering areas. Um, the question reads, is that an option. I think that we we can answer whether that sounds like It's a fit to the cause. Is that is that

260
00:45:55.540 --> 00:46:00.269
Tom Gulbransen NSF/OAC: proposition type suitable for this cyber training.

261
00:46:04.030 --> 00:46:17.300
Juan Jenny Li (NSF/OAC): Okay? So i'm not sure what kind of training material you produce from your project. So you need to include that. And then you need to show that those training material,

262
00:46:17.310 --> 00:46:24.479
Juan Jenny Li (NSF/OAC): useful for the domain. So you need to some domain. Scientists tell us that they are useful to them.

263
00:46:24.490 --> 00:46:46.690
Juan Jenny Li (NSF/OAC): But and then you need to organize to how you're going to deliver those uh through a medium program. So those components I don't see is such a short sentence. But if you can send us a one page of sorry we can take a look for that. We could do it for you. Yeah, I would. I would say, that's a pretty good example of a a short line up would be a great way to.

264
00:46:46.700 --> 00:46:48.089
Juan Jenny Li (NSF/OAC): Yes, we're got the details of it.

265
00:46:48.100 --> 00:46:52.949
Juan Jenny Li (NSF/OAC): Yeah, so like right out of one page, then we will find out. Yeah, very good. Thank you.

266

00:46:53.790 --> 00:46:58.770
Tom Gulbransen NSF/OAC: The That question is in the solicitation. I did not see fabric

267
00:46:58.830 --> 00:47:07.680
Tom Gulbransen NSF/OAC: as a resource that may be instrumental for a proposal. Can a proposal leverage and focus on using, you know, connecting with fabric rather than access from a

268
00:47:07.700 --> 00:47:26.419
Tom Gulbransen NSF/OAC: from my perspective, as the access program. Ag: i'll start to answer and and invite others to help us. Well, I i'm sorry if I may have not made clear enough examples of some of the Hbc. Platforms or programs that

269
00:47:26.430 --> 00:47:45.280
Tom Gulbransen NSF/OAC: I laid out in a little picture of levels and trying to connect these levels together Uh was certainly not exclusive or precluding anything, and we we want to invite you to propose needs that you think are the most important ways to help

270
00:47:45.370 --> 00:47:54.069
Tom Gulbransen NSF/OAC: science get better enabled transformation and breakthroughs. And if you see a way to get there with a fabric,

271
00:47:54.150 --> 00:47:57.760
Tom Gulbransen NSF/OAC: we'd love to um. Have that reviewed.

272
00:47:58.030 --> 00:47:59.440
Tom Gulbransen NSF/OAC: Ah, Jenny, good

273
00:48:02.370 --> 00:48:04.879
Tom Gulbransen NSF/OAC: the Kenny, you're all mute.

274
00:48:06.710 --> 00:48:18.159
Juan Jenny Li (NSF/OAC): Okay, I thought. Ah, I'm just quick on time. Ah, it's this, answered anyone else. Did you want to say anything else about the fabric one. I I think this is good. Oh, yes,

275
00:48:18.960 --> 00:48:19.790
this

276
00:48:19.800 --> 00:48:21.739
Tom Gulbransen NSF/OAC: So then the next question is,

277
00:48:22.540 --> 00:48:25.219
Tom Gulbransen NSF/OAC: apart from the differences in budget and duration,

278
00:48:25.280 --> 00:48:36.490
Tom Gulbransen NSF/OAC: What would be the main differences in terms of the intellectual merit and broader impact expected between the pilot and the small implementation projects for the cyber training

279
00:48:37.010 --> 00:48:39.250
Tom Gulbransen NSF/OAC: program. A show you want to take that.

280
00:48:39.510 --> 00:48:44.009
Ashok Srinivasan: So if you look at a slide eight,

281
00:48:44.020 --> 00:49:10.660
Ashok Srinivasan: it uh shows the kind of for the different flight with every criteria right? So in the implementation projects. You actually want to have a a broad impact uh the that typically goes well beyond uh the group that is proposing to the institutional institutions that you have a much, a lot of collective impact and the scalable and sustainable training. That's what you're aiming for in the

282
00:49:10.670 --> 00:49:15.840
Ashok Srinivasan: So the pilot project is setting you up, so that in the future you may be able to do a

283
00:49:15.850 --> 00:49:41.819
Ashok Srinivasan: such a project right? So in that case you your project may be more limited in score to your institution or institutions that are actually participating. So uh, it may not be a sustainable or scalable at the pilot project stage. Right? You are actually setting it up so to do

the uh earlier work that later, in the ability to come up with implementation. So you have a several more review criteria for the

284
00:49:41.830 --> 00:49:48.949
Ashok Srinivasan: Implementation Project Pilot Project is just setting you up for preliminary work to do that.

285
00:49:48.960 --> 00:49:53.660
Juan Jenny Li (NSF/OAC): No, can you scroll to the page, but maybe the the sixth criteria.

286
00:49:53.690 --> 00:49:57.520
Juan Jenny Li (NSF/OAC): And then we can see the difference. All the three types

287
00:49:58.700 --> 00:50:02.269
Ashok Srinivasan: on the slight Eight. Yes, of a sly Yes,

288
00:50:03.840 --> 00:50:07.459
Juan Jenny Li (NSF/OAC): right? Yeah, Yeah. So we can see that the defense

289
00:50:07.800 --> 00:50:10.259
Juan Jenny Li (NSF/OAC): like that the three times still different.

290
00:50:13.900 --> 00:50:15.189
Okay.

291
00:50:15.200 --> 00:50:16.679
Juan Jenny Li (NSF/OAC): But next

292
00:50:17.360 --> 00:50:19.869
i'm just gonna open the screen up a little bit here.

293
00:50:21.550 --> 00:50:38.000
Tom Gulbransen NSF/OAC: Um. The next question is um. But let's figure out. Ah, it It reads for domain scientists, for example, water systems, operations, researchers who are examining

scientific workflows, to capture failure, modes of systems and proper operation and recovery strategies.

294
00:50:38.010 --> 00:50:49.569
Tom Gulbransen NSF/OAC: If the focus is to transfer the system's, diagnosis, and operations, knowledge between the operators through developing systems that capture and analyze operational workflows.

295
00:50:49.610 --> 00:50:53.539
Tom Gulbransen NSF/OAC: Would that be closer to cyber-training rather than Skype?

296
00:50:54.070 --> 00:50:58.089
Tom Gulbransen NSF/OAC: These, those domains have very limited cyber infrastructure and use the

297
00:50:58.100 --> 00:50:59.930
yet for the spar.

298
00:51:02.340 --> 00:51:05.840
Tom Gulbransen NSF/OAC: That one, in my view, deserves

299
00:51:05.860 --> 00:51:12.159
Tom Gulbransen NSF/OAC: little bit more of a write up, so we can talk about it at length, because it feels more like a technology

300
00:51:12.710 --> 00:51:15.259
Tom Gulbransen NSF/OAC: action

301
00:51:19.630 --> 00:51:41.119
Juan Jenny Li (NSF/OAC): that you're transferring the knowledge right? So uh this knowledge uh training material i'm talking about from the operator to the system we're supposed to be able to transfer the knowledge from the operator to the workforce. This is the workforce development by so to some other,

302
00:51:41.130 --> 00:51:47.979

Juan Jenny Li (NSF/OAC): Then that's the correct one. But if you just transfer the knowledge to a system, then that's now what we're looking for.

303
00:51:49.060 --> 00:51:53.889
Tom Gulbransen NSF/OAC: However, if there was a data analyst role that was

304
00:51:53.910 --> 00:51:57.070
Tom Gulbransen NSF/OAC: looking at the diagnostics, and they needed

305
00:51:57.990 --> 00:52:06.080
Tom Gulbransen NSF/OAC: they could benefit from better methods for communicating that and influencing the engineering options.

306
00:52:06.620 --> 00:52:10.409
Tom Gulbransen NSF/OAC: Well, then, that is a people oriented um

307
00:52:10.520 --> 00:52:18.779
Tom Gulbransen NSF/OAC: improvement. So let's let's say that that's that's worth more discussion, maybe with an additional directorate in a conversation. So please do follow up with us from there,

308
00:52:19.220 --> 00:52:32.110
Ashok Srinivasan: and to add to it, you know, like when you you can send us a one-page outline, and when you do that you want to notice that our focus is on research, right? So because based on the

309
00:52:47.580 --> 00:53:03.450
Tom Gulbransen NSF/OAC: Thank you, the next question is, are existing cyber, infrastructure, building blocks or or frameworks of data and software, et cetera, and the science and engineering themed communities required as a precondition for the sky proposal.

310
00:53:04.360 --> 00:53:08.130
Tom Gulbransen NSF/OAC: If I understand the question correctly.

311
00:53:08.860 --> 00:53:10.189

Tom Gulbransen NSF/OAC: Ah!

312
00:53:11.600 --> 00:53:14.239
Tom Gulbransen NSF/OAC: If the intention were to be

313
00:53:14.440 --> 00:53:15.799
Tom Gulbransen NSF/OAC: to

314
00:53:16.480 --> 00:53:18.060
Tom Gulbransen NSF/OAC: provide

315
00:53:18.510 --> 00:53:21.680
Tom Gulbransen NSF/OAC: ci building blocks or frameworks

316
00:53:22.780 --> 00:53:27.240
Tom Gulbransen NSF/OAC: for improvements to science and engineering communities,

317
00:53:28.500 --> 00:53:34.509
Tom Gulbransen NSF/OAC: some representation that community would need to be involved. Yes,

318
00:53:34.730 --> 00:53:41.089
Tom Gulbransen NSF/OAC: but that question might be trying to ask something that i'm not perceiving properly

319
00:53:41.100 --> 00:53:49.760
Juan Jenny Li (NSF/OAC): right. I think it's that if you have an existing community, definitely help with your reviews of your proposal. Right?

320
00:53:50.010 --> 00:53:53.790
Juan Jenny Li (NSF/OAC): So because the scribe is a bigger projects,

321
00:53:53.800 --> 00:54:07.819

Juan Jenny Li (NSF/OAC): right? But the end in the questions is, Are the building blocks or frameworks, and the community a required precondition. But definitely help. That's what I try to say. Thank you.

322
00:54:11.530 --> 00:54:12.689
Tom Gulbransen NSF/OAC: Sorry about that

323
00:54:12.700 --> 00:54:14.709
Tom Gulbransen NSF/OAC: over talking about you, Jenny.

324
00:54:14.740 --> 00:54:18.919
Tom Gulbransen NSF/OAC: The next question is, What are the differences from the

325
00:54:19.030 --> 00:54:23.760
Tom Gulbransen NSF/OAC: Oh, there we go, There we are! What are the differences from the content and research perspectives

326
00:54:23.780 --> 00:54:34.030
Tom Gulbransen NSF/OAC: between the cyber-training pilot proposal and the small implementation proposal. Do I need to have a small pilot also funded before applying for the implementation proposal?

327
00:54:34.270 --> 00:54:35.790
Tom Gulbransen NSF/OAC: Quick answer to No,

328
00:54:37.030 --> 00:54:39.040
that's good, thank you.

329
00:54:39.160 --> 00:54:41.410
Tom Gulbransen NSF/OAC: The next question is

330
00:54:42.250 --> 00:55:00.950
Tom Gulbransen NSF/OAC: for Skype and the focus, not on a single institution, but to develop a framework that could be applied across institutions. The association requires charge charging at

least twenty percent sip cyber infrastructure, professional effort from an institution, so that it it seems to suggest that a focus on changing

331
00:55:00.960 --> 00:55:02.529
Tom Gulbransen NSF/OAC: institutional structure.

332
00:55:02.660 --> 00:55:19.609
Tom Gulbransen NSF/OAC: I can assess that advance. Can you clarify? But let's see if you can do this in a couple of phases. The first part is kind of focused, not on a single institution by a framework that could be applied across multiple institutions.

333
00:55:20.110 --> 00:55:25.159
Tom Gulbransen NSF/OAC: Yes, that is a welcome possibility,

334
00:55:25.850 --> 00:55:45.329
Tom Gulbransen NSF/OAC: As I mentioned with the Um Tip Regional innovations, engine programmatic interest area. They are particularly eager to hear about regional coalitions or partnerships. So definitely an institution can

335
00:55:45.340 --> 00:55:46.710
Tom Gulbransen NSF/OAC: playing with others.

336
00:55:47.570 --> 00:55:59.619
Tom Gulbransen NSF/OAC: Um. The second part, though, is that the solicitation requires charging only three percent of the effort from an institution. So it seems like it seems to suggest a focus on changing institutional structure.

337
00:55:59.850 --> 00:56:04.060
Tom Gulbransen NSF/OAC: Hmm. The twenty percent

338
00:56:04.510 --> 00:56:07.549
Tom Gulbransen NSF/OAC: charging would be

339
00:56:09.090 --> 00:56:11.190
Tom Gulbransen NSF/OAC: twenty of the effort

340
00:56:11.470 --> 00:56:16.280
Tom Gulbransen NSF/OAC: applied in association with the access programs user support

341
00:56:16.760 --> 00:56:18.430
Tom Gulbransen NSF/OAC: it's conceivable

342
00:56:18.440 --> 00:56:20.700
Tom Gulbransen NSF/OAC: that from an institution

343
00:56:21.060 --> 00:56:25.649
Tom Gulbransen NSF/OAC: that has a cyber infrastructure professional, they could deploy to help somebody

344
00:56:25.850 --> 00:56:39.829
Tom Gulbransen NSF/OAC: from their own institution. You know the the circle can be for, or the connection match can be made there. So it's not like the money, has to leave the institution to satisfy that twenty percent. It's the

345
00:56:40.620 --> 00:56:49.669
Tom Gulbransen NSF/OAC: connectivity of the program, the service and the association with access that's being saw in that twenty percent. As for the structure of the institution

346
00:56:50.470 --> 00:57:05.169
Tom Gulbransen NSF/OAC: um that's really place-specific. Um. The intention would be to demonstrate that cyber structures have recognized career pathways some institutions have that worked out pretty well, so maybe there's not too much change needed.

347
00:57:05.210 --> 00:57:10.850
Tom Gulbransen NSF/OAC: We'd still want to hear about the sustainability over time and post award. But other institutions,

348
00:57:12.120 --> 00:57:22.599
Tom Gulbransen NSF/OAC: perhaps Don't have as clear as as clear a set of pathways, and so there the structure of institution could be part of what's

349
00:57:22.660 --> 00:57:25.660
Tom Gulbransen NSF/OAC: going to change or be proposed to change.

350
00:57:26.710 --> 00:57:45.830
Juan Jenny Li (NSF/OAC): I think that was three different questions, but I think it. I think we. So it's important to know the Skype. It's not just for training it's the entire ecosystem right? So that's Why, I just want to emphasize that it's beyond training, but include a community building, or else otherwise,

351
00:57:46.040 --> 00:57:57.190
Tom Gulbransen NSF/OAC: thanks. The next question is, our proposal is directly relevant to at least three different directors. Is this acceptable? And do we contact the applicable officers independently?

352
00:57:58.940 --> 00:58:26.759
Ashok Srinivasan: Yeah. So definitely, you can have uh proposals that are relevant to multiple direct rates, and if you want to make things like simple for you, you could just send it to us. And uh, just let us know which directories are relevant to, and we can uh forward it to the other relevant dynamics to cyber training. Uh, you can send it your one page outline to

353
00:58:29.940 --> 00:58:31.069
Tom Gulbransen NSF/OAC: thank you.

354
00:58:31.270 --> 00:58:33.840
Tom Gulbransen NSF/OAC: Next question is

355
00:58:34.080 --> 00:58:36.389
Tom Gulbransen NSF/OAC: only cloud-based,

356
00:58:36.830 --> 00:58:43.379
Tom Gulbransen NSF/OAC: high-performance computing cyber infrastructure considered for the cyber-training skype programs. The

357
00:58:43.420 --> 00:58:45.340

Tom Gulbransen NSF/OAC: how about c I

358
00:58:45.370 --> 00:58:50.949
Tom Gulbransen NSF/OAC: constructed out of an Internet. Of things or edge computing in scientific labs.

359
00:58:52.230 --> 00:59:02.400
Tom Gulbransen NSF/OAC: Um, I i'll start, but I want to toss it up to Andre. Please do consider the widest definition or boundaries. With regard to the

360
00:59:02.800 --> 00:59:10.080
Tom Gulbransen NSF/OAC: cyber infrastructure, ecosystem, and what platforms, or what places could benefit from

361
00:59:10.230 --> 00:59:15.100
Tom Gulbransen NSF/OAC: improvements to their advanced side infrastructure Use the

362
00:59:15.320 --> 00:59:24.440
Tom Gulbransen NSF/OAC: I you know these mentions here are above and beyond what was stated recently in the slides, and probably I could also be on what was

363
00:59:24.760 --> 00:59:28.649
Tom Gulbransen NSF/OAC: stated verbatim in the solutions. But that's not a problem.

364
00:59:28.660 --> 00:59:29.700
Tom Gulbransen NSF/OAC: And they

365
00:59:31.340 --> 00:59:32.090
because I

366
00:59:32.100 --> 00:59:50.220
Andrey Kanaev (NSF/OAC): I think again going back to our new developing new tools and new technologies, they see definitely, most welcome and getting back to the question answered before about new technologies and your tools. Definitely, I thought,

367
00:59:51.310 --> 00:59:59.429
Andrey Kanaev (NSF/OAC): noted that it is correct between it's not about developing the tools percept, but the training for the cyber

368
00:59:59.590 --> 01:00:06.560
Andrey Kanaev (NSF/OAC): for those new tools, and how to work with them. And this is actually similar to

369
01:00:17.400 --> 01:00:18.599
Tom Gulbransen NSF/OAC: thank you.

370
01:00:18.980 --> 01:00:23.720
Tom Gulbransen NSF/OAC: The next question: Can we budget graduate students salary for developing training material?

371
01:00:24.930 --> 01:00:26.430
Ashok Srinivasan: The answer is, Yes,

372
01:00:26.730 --> 01:00:27.839
it gives

373
01:00:28.550 --> 01:00:47.239
Tom Gulbransen NSF/OAC: next. Skype projects require plans for evaluation. Can budgets include professional evaluators. How is this budget? How is this to be budgeted against the four fte limit? Fair question. The four fte limit

374
01:00:47.250 --> 01:00:49.549
Tom Gulbransen NSF/OAC: is is more like a

375
01:00:50.450 --> 01:00:55.750
Tom Gulbransen NSF/OAC: scaling or arranging to ensure that you're

376
01:00:57.120 --> 01:01:02.640

Tom Gulbransen NSF/OAC: focused in part on providing that amount of services out to researchers. The

377
01:01:03.010 --> 01:01:22.909
Tom Gulbransen NSF/OAC: other things have to happen in order to satisfy all the different criteria for the program and for selection, and those other activities will require budgeting beyond the four fts that are oriented for deployment. So it's up to you to decide how much

378
01:01:24.510 --> 01:01:29.090
Tom Gulbransen NSF/OAC: activity is necessary to fulfill your vision, and if that includes professional evaluators,

379
01:01:29.530 --> 01:01:30.649
cooke

380
01:01:30.920 --> 01:01:32.910
Tom Gulbransen NSF/OAC: that it's certainly allowable

381
01:01:33.360 --> 01:01:59.040
Juan Jenny Li (NSF/OAC): Right? The evaluator. It's different from those four. They're extra, but we still very important, based on last year's. Ah, proposal we see we still need to focus on those four. The value enter we shouldn't have like evaluated taking up the whole budget, and the smaller ft is our focus and evaluate a pass. Be as much small.

382
01:01:59.050 --> 01:02:04.049
Juan Jenny Li (NSF/OAC): I think it was a Yes, no, we we're not going to get into proportions.

383
01:02:04.200 --> 01:02:11.500
Tom Gulbransen NSF/OAC: Next question. Can that institution be a post-secondary institution offering the cyber security training the

384
01:02:17.960 --> 01:02:47.230
Ashok Srinivasan: well, if you want to. Uh, when, uh I don't understand to control that institution, because I don't know whether that stands for. But in general, if it comes with this cybersecurity training, you want to be careful about a couple of things. One is that I know that this is all for research works right? So the workforce would be research related. I'm: Assuming

this is for the Cyber Training program the other side of the Security proposal. Cyber security has been related to

385
01:02:47.240 --> 01:03:06.620
Ashok Srinivasan: this is, it was not a general cybersecurity training that we do. It has to be related to cyber infrastructure. In that case it would be relevant. But if both these conditions are satisfied, the research, aspect, and the cybersecurity related to cybersecurity for cyber infrastructure,

386
01:03:07.290 --> 01:03:09.710
Ashok Srinivasan: can you want to add anything to it.

387
01:03:12.680 --> 01:03:14.690
Juan Jenny Li (NSF/OAC): I can't say It's all right, sir, thank you.

388
01:03:14.700 --> 01:03:23.499
Tom Gulbransen NSF/OAC: I think your answer is also applicable to the next question which reads: If a project develops a new model, or a method to train undergraduate students in cybersecurity.

389
01:03:24.270 --> 01:03:26.230
Tom Gulbransen NSF/OAC: Will that fit in cyber training?

390
01:03:26.450 --> 01:03:27.389
Ashok Srinivasan: And this guy?

391
01:03:27.400 --> 01:03:31.489
Ashok Srinivasan: Yeah. So there my also applies to the next question to you know,

392
01:03:31.500 --> 01:03:38.920
Tom Gulbransen NSF/OAC: when it is pursuant to research-driven Science-driven research are facing initiative stuff.

393
01:03:39.040 --> 01:03:41.339
Tom Gulbransen NSF/OAC: The next question is,

394
01:03:42.260 --> 01:03:47.029
Tom Gulbransen NSF/OAC: Skype can hire four fte participants

395
01:03:47.070 --> 01:03:55.949
Tom Gulbransen NSF/OAC: eight half Fd participants? Or or is it restricted to four fts? Good Question: Yeah. They

396
01:03:56.730 --> 01:04:02.289
Tom Gulbransen NSF/OAC: mode of deployment of a cyber

397
01:04:02.450 --> 01:04:05.069
Tom Gulbransen NSF/OAC: does not have to be

398
01:04:05.840 --> 01:04:10.819
Tom Gulbransen NSF/OAC: a particular person full time forever. So

399
01:04:11.080 --> 01:04:18.250
Tom Gulbransen NSF/OAC: it's up to you to decide how best to accomplish these services and the types of

400
01:04:18.800 --> 01:04:26.789
Tom Gulbransen NSF/OAC: cyber in such a professional expertise that might be relevant to the need you're trying to serve and solve if that

401
01:04:26.850 --> 01:04:31.640
Tom Gulbransen NSF/OAC: might be recruited from a wide range of folks fractionally.

402
01:04:31.660 --> 01:04:40.490
Tom Gulbransen NSF/OAC: That's um viable Close it doesn't total up to more than what would be the same of, you know. But we told up to be about four people.

403
01:04:41.900 --> 01:04:45.950
Tom Gulbransen NSF/OAC: The next question is, the Skype Solicitation says

404
01:04:46.120 --> 01:04:57.780
Tom Gulbransen NSF/OAC: that a board of expert advisors or a similar body should provide periodic guidance Can proposals include participant or travel funds for Advisory Board members.

405
01:04:59.900 --> 01:05:02.149
Tom Gulbransen NSF/OAC: I'm going to say yes

406
01:05:02.320 --> 01:05:05.460
Tom Gulbransen NSF/OAC: at this point. But reserve

407
01:05:06.840 --> 01:05:11.470
Tom Gulbransen NSF/OAC: I can't for sure, with full certainty

408
01:05:12.960 --> 01:05:15.859
Juan Jenny Li (NSF/OAC): that would be precluded.

409
01:05:15.870 --> 01:05:25.890
Juan Jenny Li (NSF/OAC): Yeah, the answer is yes. The only thing is sometimes you put too much into that. Then you don't put enough. It's a proportion cushion again.

410
01:05:25.900 --> 01:05:33.190
Juan Jenny Li (NSF/OAC): It's allowable expense. But don't put so much into that, and don't do your actual real work.

411
01:05:33.370 --> 01:05:38.199
Juan Jenny Li (NSF/OAC): This is potion. A small portion of it. Yes,

412
01:05:38.210 --> 01:05:42.940
Tom Gulbransen NSF/OAC: the next question is, Can you please elaborate on cybersecurity?

413
01:05:43.440 --> 01:05:55.420

Tom Gulbransen NSF/OAC: Can you please elaborate on cybersecurity proposals and the educational element that you're looking for? Please also elaborate on the differences between your expectation from pilot and small levels.

414
01:05:56.820 --> 01:06:04.599
Ashok Srinivasan: So the cyber security proposals, as we discussed earlier, have to be related to the

415
01:06:04.770 --> 01:06:18.209
Ashok Srinivasan: Cyber infrastructure security of the Cyber infrastructure, and they had to be Ah! Something related to research purposes, how the C. Is sub an infrastructure used for research purposes. What are the security issues that arise in that?

416
01:06:18.220 --> 01:06:37.320
Ashok Srinivasan: So that is one thing, the other is that. Uh, if you look at uh Slide eight, it gives a distinction between the pilot and a small level. But even the small implementation still has collective impact much beyond your institution or the institutions involved in this proposal,

417
01:06:37.750 --> 01:06:54.890
Ashok Srinivasan: and it's going to be scalable and sustainable training, whereas the Pilot Project doesn't have those requirements. It's something that's going to set you up It's greatly work that's going to set you up in the future to be able to do a smaller medium.

418
01:06:59.600 --> 01:07:09.659
Tom Gulbransen NSF/OAC: Thank you. Skype can fund the training of C. I. P. Also can be used for ci deployment and maintenance.

419
01:07:12.190 --> 01:07:19.399
Tom Gulbransen NSF/OAC: Um, considering the possible rewarding. Can Skype Fund, the training of professionals

420
01:07:19.560 --> 01:07:25.620
Tom Gulbransen NSF/OAC: also? Can it be used for the Ci deployment and maintenance?

421
01:07:28.500 --> 01:07:29.810
Tom Gulbransen NSF/OAC: Um.

422
01:07:31.160 --> 01:07:38.640
Tom Gulbransen NSF/OAC: Yes, Skype can include funds for some amount of training, because

423
01:07:38.720 --> 01:07:52.780
Tom Gulbransen NSF/OAC: there are. There's always a need to, you know, upskill or freshen up, or stay sharp on the latest technologies. So it's fine to have some amount of training associated with these folks being ready to be deployed.

424
01:07:53.450 --> 01:08:11.200
Juan Jenny Li (NSF/OAC): But the maintenance part of the question

425
01:08:11.210 --> 01:08:26.180
Juan Jenny Li (NSF/OAC): right. But if you not supporting cip. You just go. I don't know. So any other cost for deployment or maintenance. Then it's not right. So basically it's a policy. Ip to do their work. That's fine.

426
01:08:27.380 --> 01:08:36.929
Juan Jenny Li (NSF/OAC): Yeah, The the maintenance part is around. I'm: not quite sure what would be being like. Just randomness pie. It's not. But for the cip to do the maintenance, then it's fine.

427
01:08:36.939 --> 01:08:37.979
Yes.

428
01:08:38.590 --> 01:08:40.199
Tom Gulbransen NSF/OAC: Next question.

429
01:08:40.700 --> 01:08:57.999
Tom Gulbransen NSF/OAC: Can you clarify some of the preceding statements for Skype proposals, integrating with access or path or fabric, and the part of the solicitation that says that projects being required to commit at least twenty percent of the funded time to support research activities coordinated by the access track to team.

430
01:08:58.080 --> 01:09:02.940

Tom Gulbransen NSF/OAC: I'll try to clarify that better, more

431
01:09:03.140 --> 01:09:07.780
Tom Gulbransen NSF/OAC: as the awardees of the Skype program

432
01:09:07.810 --> 01:09:16.860
Tom Gulbransen NSF/OAC: and have those professionals engage to serve researchers. The expectation is that

433
01:09:17.910 --> 01:09:25.860
Tom Gulbransen NSF/OAC: twenty roughly twenty percent. It could be more. But hopefully at least twenty percent of the time it would be towards an engagement that

434
01:09:26.109 --> 01:09:37.579
Tom Gulbransen NSF/OAC: is um facilitated or recognized, or part of the access program and the supporting users that is recognized by the access program,

435
01:09:37.819 --> 01:09:40.289
Tom Gulbransen NSF/OAC: and that access program

436
01:09:40.490 --> 01:09:44.220
could very well be responding to a user who's trying to

437
01:09:44.550 --> 01:09:46.849
Tom Gulbransen NSF/OAC: get through to path

438
01:09:47.970 --> 01:09:49.019
Tom Gulbransen NSF/OAC: um

439
01:09:49.649 --> 01:09:50.769
um

440
01:09:51.160 --> 01:09:55.389
Tom Gulbransen NSF/OAC: integration or take advantage of fabric opportunities. So the

441
01:09:55.670 --> 01:09:56.769
Tom Gulbransen NSF/OAC: the

442
01:09:57.310 --> 01:10:03.690
Tom Gulbransen NSF/OAC: proportion of the time spent doing something that is within the access to

443
01:10:04.130 --> 01:10:09.549
Tom Gulbransen NSF/OAC: ecosystem of coordination. And who needs help? Who's getting help you?

444
01:10:09.580 --> 01:10:11.809
Tom Gulbransen NSF/OAC: That's a fraction of the time

445
01:10:12.120 --> 01:10:21.309
Tom Gulbransen NSF/OAC: for where that help is being deployed. If it's helping us, a scientific initiative or an engineering effort,

446
01:10:21.490 --> 01:10:25.539
Tom Gulbransen NSF/OAC: Skype is agnostic as to where where that

447
01:10:25.600 --> 01:10:33.320
Tom Gulbransen NSF/OAC: it gets done hopefully, it'll be something that would get done and be useful in the future not to be a one-time deal. So hopefully that's a

448
01:10:34.250 --> 01:10:36.210
Tom Gulbransen NSF/OAC: um clarifies a little bit

449
01:10:39.370 --> 01:10:40.780
Tom Gulbransen NSF/OAC: Next, question

450
01:10:41.110 --> 01:10:51.949

Tom Gulbransen NSF/OAC: What could be some specific examples of strategies of community building and fostering for a potential cyber-training proposal I want to understand more of the term community building

451
01:10:52.430 --> 01:10:53.469
Tom Gulbransen NSF/OAC: a joke.

452
01:10:53.570 --> 01:11:23.540
Ashok Srinivasan: So this the answer will be relevant to the next question, too. I I guess this is, relates to the Seventh Review criteria on the Sixth Revenue Criteria, uh, where the medium proposal requires a foster in the sort of a community where there's a small proposal. That's not right. So. Let's say you have. Actually I I didn't have a gap in train. We are created very clear material at all right, and it is also scalable something that can go well beyond the distribution that's going to be done by.

453
01:11:23.550 --> 01:11:50.890
Ashok Srinivasan: But this is not the end of it. Right. The field itself evolves at the field ever of the training, material and all that also has evolved with it. Right? So if you are actually in the super community, uh, when it becomes kind of a community initiative. Right then the community would continue working on a evolving the material and all that well beyond the scope of the project beyond the time period of the process.

454
01:11:50.900 --> 01:12:06.880
Ashok Srinivasan: So that is going to be. Ah, you know, fostering a suitable community. So you'll build a community that will be engaged in producing and developing such materials beyond the timeframe of the project. So that is an important distinction between the medium and small dropos

455
01:12:08.530 --> 01:12:11.359
Ashok Srinivasan: ken. Would you like to add something to me there.

456
01:12:14.090 --> 01:12:28.800
Juan Jenny Li (NSF/OAC): Um: right? So yeah. So we like to emphasize community building means also means that community is going to use your material right. So that's not just. Ah, if you just a small it, maybe a

457

01:12:28.810 --> 01:12:35.999
Juan Jenny Li (NSF/OAC): people who use the getting the train for several trainings will be smaller than this community the entire community train.

458
01:12:37.620 --> 01:12:38.769
Juan Jenny Li (NSF/OAC): Thanks,

459
01:12:42.330 --> 01:12:46.519
Tom Gulbransen NSF/OAC: Um, I think that, answered the second one there, too. So

460
01:12:46.870 --> 01:12:48.900
Tom Gulbransen NSF/OAC: the next question is,

461
01:12:48.970 --> 01:12:51.389
Tom Gulbransen NSF/OAC: we were considering focus on

462
01:12:51.400 --> 01:13:09.539
Tom Gulbransen NSF/OAC: early career ci professionals working with specific social science domains and researchers that we serve with large-scale data and computational analysis. So it would be. It would serve multiple domains, possibly through some sort of fellowship program or post-doc and

463
01:13:09.680 --> 01:13:14.309
Tom Gulbransen NSF/OAC: postmaster's level. Does this generally seem like something that fits within Skype?

464
01:13:15.090 --> 01:13:34.040
Tom Gulbransen NSF/OAC: Um, I I would say the the topics. You've made a connection to the social sciences. Wonderful! That's one of the prerequisites. So you're there. And then your question says you serve large scale data and computation analyses. So that's

465
01:13:34.050 --> 01:13:48.130
Tom Gulbransen NSF/OAC: and provisioning and providing hopefully, it's an expertise. That's, you know, beyond what the researchers could do. So Yeah, that's where you would be adding to that capability enabling better science one hundred and fifty

466
01:13:48.400 --> 01:13:49.980
Tom Gulbransen NSF/OAC: because of

467
01:13:50.010 --> 01:13:52.750
Tom Gulbransen NSF/OAC: what you're bringing in the way of ci expertise.

468
01:13:53.220 --> 01:13:54.440
Tom Gulbransen NSF/OAC: Ah,

469
01:13:54.990 --> 01:14:08.349
Tom Gulbransen NSF/OAC: whether it's a fellowship program and the level of people post-docs or postmaster's level. There's no mandate or dictate with regard to the level of people that you could deploy

470
01:14:08.690 --> 01:14:09.789
Juan Jenny Li (NSF/OAC): I don't like.

471
01:14:09.800 --> 01:14:20.789
Juan Jenny Li (NSF/OAC): So So this reminded me about the one thing about this four fte they could be. They don't have to be the same person, or there's four, but each year it could change different ones.

472
01:14:20.800 --> 01:14:22.040
Juan Jenny Li (NSF/OAC): Okay, bye,

473
01:14:22.380 --> 01:14:26.390
Juan Jenny Li (NSF/OAC): because a postdoor cannot stay for five years for those five years,

474
01:14:27.130 --> 01:14:44.749
Tom Gulbransen NSF/OAC: and then to generally say, does this seem like something that fits within Skype? So we just highlighted a few parts of what does fit? There are other parts that would also have to be addressed. I won't, reiterate them. But there are a couple more things to do in the course of that kind of a

475

01:14:45.010 --> 01:14:52.039
Tom Gulbransen NSF/OAC: configuration, and then it sounds like that would be not only fit, but it would be responsive a little more holy. But,

476
01:14:52.780 --> 01:15:04.929
Tom Gulbransen NSF/OAC: um! The next question I see, is no program from the Bio director. It seems to be listed in the cyber training. So citation would training for domains or user communities serve by Bio. Be responsive.

477
01:15:05.630 --> 01:15:07.820
Ashok Srinivasan: So I can uh answer that. Uh,

478
01:15:07.830 --> 01:15:36.570
Ashok Srinivasan: It's a wild dietrate, as you also just not participating in this uh program different that the directories have, uh, you know, a different training program. So sometimes they have a uh overlap, and so they feel that they can uh the alternate program with. So what I will suggest is, you can either contact them or you can email me, and I can uh, uh, suggest uh, the programs that they have to handle this. But you're right in my

479
01:15:42.970 --> 01:15:43.889
Tom Gulbransen NSF/OAC: Well,

480
01:15:43.900 --> 01:15:47.419
Tom Gulbransen NSF/OAC: let me check that because I might be reading the question differently.

481
01:15:48.000 --> 01:16:02.949
Tom Gulbransen NSF/OAC: Wood training for users who are served by the by, Bio, be responsive. That sounds like they could be training scientists who do things that Bio needs or that vile has done so.

482
01:16:03.440 --> 01:16:18.999
Tom Gulbransen NSF/OAC: It's. It is true that Bio Hasn't said, Oh, yeah, we're going to put money into. We're going to co-fund these awards. They would have been on the list, and they're not at that level of engagement. But it seems you could be science driven, and you could be responding to valuable

483
01:16:19.410 --> 01:16:25.530
Tom Gulbransen NSF/OAC: bio. Valuable science needs that are pertinent to the bio directorate

484
01:16:25.760 --> 01:16:31.289
Ashok Srinivasan: is that those are actually topically excluded. I don't.

485
01:16:31.300 --> 01:16:41.390
Ashok Srinivasan: No, It's The reason is that a biodiversity it actually has some alternate programs that hand you this. So I will go there. I can suggest the programs that I write

486
01:16:41.400 --> 01:16:55.700
Juan Jenny Li (NSF/OAC): right. But uh, if if yeah, but I I think Thomas right. If uh that, your proposal is really great, and we have a biology supposed saying that this is great they really need. We can still support It's just that your chains from below, or the

487
01:16:55.710 --> 01:17:05.580
Juan Jenny Li (NSF/OAC): they have their own program, they might one. They might not say, This is great program for you. If they do say that for you, then we will support it. Yes, thank you, for

488
01:17:05.590 --> 01:17:07.580
Tom Gulbransen NSF/OAC: I find what I might have muddied.

489
01:17:09.670 --> 01:17:18.180
Tom Gulbransen NSF/OAC: What is the difference between your cybersecurity program and secure and trustworthy cyberspace the Saxy education program, the

490
01:17:24.330 --> 01:17:42.259
Juan Jenny Li (NSF/OAC): Ah. We mentioned several times. We focus on several infrastructures cybersecurity. If you have cyber security focusing on cyber infrastructure, then that's us right. If you have a general cyber security, then go to the

491
01:17:42.270 --> 01:17:43.269
Yes,

492
01:17:45.250 --> 01:17:46.530
thank you.

493
01:17:47.270 --> 01:17:50.370
Tom Gulbransen NSF/OAC: Um. Also sabotrating in the next one,

494
01:17:50.720 --> 01:17:57.739
Tom Gulbransen NSF/OAC: for the cyber training program is electrical engineering related cyber training development included in this program.

495
01:17:58.090 --> 01:18:00.300
Tom Gulbransen NSF/OAC: Electrical engineering.

496
01:18:04.720 --> 01:18:20.480
Juan Jenny Li (NSF/OAC): Yes, definitely. Actually, I was just about to say, even science itself. If you're training for the science researchers. That's also down to our domain. If you look at that, we have some other divisions from science itself joining us,

497
01:18:20.490 --> 01:18:25.339
Juan Jenny Li (NSF/OAC): Why? So So this problem. Yes, definitely electrical gym, it's definitely included.

498
01:18:27.890 --> 01:18:28.980
Tom Gulbransen NSF/OAC: Thank you.

499
01:18:29.120 --> 01:18:48.400
Tom Gulbransen NSF/OAC: The next question reads as with most and Nsf. Programs at this scale, the amount of money, even in the medium sky. Proposal category is insufficient to support more than about one fte or about two students at most. Institutions after overhead and institutionally required benefits are taken into account.

500
01:18:48.710 --> 01:18:56.459
Tom Gulbransen NSF/OAC: Isn't. This program drastically underfunded to accomplish its goals before we answer, let me just point out that

501
01:18:57.850 --> 01:19:01.070
Tom Gulbransen NSF/OAC: if it's about cyber-training,

502
01:19:01.630 --> 01:19:11.169
Tom Gulbransen NSF/OAC: then we have the pilot medium and moderate scale. If it's about Skype, there is no medium level,

503
01:19:11.980 --> 01:19:14.689
Tom Gulbransen NSF/OAC: and there is no statement of

504
01:19:14.700 --> 01:19:17.549
Tom Gulbransen NSF/OAC: dollars being made available to support

505
01:19:17.740 --> 01:19:21.609
Tom Gulbransen NSF/OAC: one, or even four fts. So,

506
01:19:22.130 --> 01:19:25.010
Tom Gulbransen NSF/OAC: um, let's answer this question.

507
01:19:26.650 --> 01:19:51.940
Juan Jenny Li (NSF/OAC): I'm not sure that it's the question, because it's it's, it's it's it's it's it's it's based on you. If we see many, many great proposals to this problem, they will see the need for the community. Then we continue to grow these problems, then we have more funding for this,

508
01:19:51.950 --> 01:19:57.330
Juan Jenny Li (NSF/OAC): so it's kind of a nice cycle. If you're doing well, then we can do it better in the future,

509
01:19:58.240 --> 01:20:12.929
Juan Jenny Li (NSF/OAC): as you can see that we're growing if we compare to last year. We have much more funding this year than us yet, because we received many proposals. Very good proposals last year. Thank you. So I hope everybody continue to submit this year as well.

510

01:20:14.330 --> 01:20:24.039
Tom Gulbransen NSF/OAC: Yeah, I hope you can. You can find a way to make it fit and fulfill the goals that you would be able to do. But we don't see it as drastically underfunded.

511
01:20:24.640 --> 01:20:34.509
Tom Gulbransen NSF/OAC: Can the that doesn't mean? We'd like to see more funding. But can the project include costs, for example, travel and housing for holding an in-person workshop

512
01:20:34.900 --> 01:20:36.010
Tom Gulbransen NSF/OAC: where'd you go?

513
01:20:37.450 --> 01:20:38.800
Yeah, I'm: Sorry.

514
01:20:38.810 --> 01:20:46.550
Tom Gulbransen NSF/OAC: Can the project include costs, for example, travel or housing for holding an in-person workshop for a limited number of participants.

515
01:20:47.740 --> 01:20:49.649
Tom Gulbransen NSF/OAC: Jenny is nodding. Yes,

516
01:20:52.680 --> 01:21:03.239
Juan Jenny Li (NSF/OAC): yes, that's one way to do your training side of a training like you can propose. Anyways you want for the separate training. That's one possible way for a

517
01:21:03.250 --> 01:21:04.580
Tom Gulbransen NSF/OAC: Thank you.

518
01:21:04.590 --> 01:21:11.869
Tom Gulbransen NSF/OAC: The next question is cyber training program? What strengths have you seen in winning proposals, and

519
01:21:12.620 --> 01:21:25.620

Tom Gulbransen NSF/OAC: and what types of weaknesses have you noticed in rejected proposals? Could you please provide your insights on these. Thank you. While maintaining the confidentiality of the Merit Review process in all.

520
01:21:26.560 --> 01:21:29.390
Tom Gulbransen NSF/OAC: Um, I shock. Would you like to to um

521
01:21:30.220 --> 01:21:34.189
Ashok Srinivasan: um more about the winning proposals and weaknesses that might have been observed.

522
01:21:34.200 --> 01:21:59.289
Ashok Srinivasan: Well, you know, I have certainly likely pointed out uh we can't say anything about specific proposals. But I think basically uh, a strong proposals satisfy all the meditative criteria, including the intellectual marriage, broader impact and the project specific criteria, right? Uh and the proposals that Don't satisfy those criteria are the ones that are uh weaker and correctly. We would like to

523
01:21:59.300 --> 01:22:14.289
Ashok Srinivasan: make sure that you're emphasize this many times. But there are two aspects to research, workforce, and cyber infrastructure. So both of those aspects are important. So just make sure that you address those, and on the meditatively criteria.

524
01:22:16.210 --> 01:22:37.179
Juan Jenny Li (NSF/OAC): Alright, uh, for me, I like to address this the community Uh, it's because this all coming from the community community request. And then we view also. As for the community where panels to select. So if you have good friendships, this my person of you, if you have good relationship with the community, then you should do well.

525
01:22:42.210 --> 01:22:51.159
Tom Gulbransen NSF/OAC: Sustainability is always a challenge to to satisfy easily. Um! The last question that I see here is,

526
01:22:51.500 --> 01:22:58.019
Tom Gulbransen NSF/OAC: I'd like to request more information on the decision to support only research workforce development

527
01:22:58.190 --> 01:23:15.499
Tom Gulbransen NSF/OAC: is the mission of cyber training to ultimately support continued advancement of Ci technologies or to broaden adoption of the Ci amongst the breadth of communities. If a project initially supports the general workforce is that appropriate for cyber training solicitation,

528
01:23:16.400 --> 01:23:18.689
Ashok Srinivasan: i'll show you I think you might want to.

529
01:23:18.700 --> 01:23:36.890
Ashok Srinivasan: So uh, you know, like, Yeah, you're right. That uh, just a. We have a many different programs at this. This program focuses on uh, the search work for development, and uh on the enabling to searches to the average Ci uh in terms of uh it uh benefit the general.

530
01:23:36.900 --> 01:23:45.050
Ashok Srinivasan: Yes, all training can benefit to general workforce. So, for example, there are a lot of research skills. People may actually develop research, still

531
01:23:45.060 --> 01:24:09.790
Ashok Srinivasan: data, science or aml and all that, and you teach it for research purpose. Well, if they it can get people said, not go into this. It could still help them right, so that that has to be fine, and we want a broader adoption of Cm. Of the community. Yes, we definitely want to do that. We also want to develop a new curriculum material. So both of those are actually relevant to our

532
01:24:09.800 --> 01:24:12.989
Juan Jenny Li (NSF/OAC): Yeah. Thanks for picking up on the funding adoption. That certainly is

533
01:24:13.040 --> 01:24:28.980
Juan Jenny Li (NSF/OAC): right. So So the the reason we're focusing on the research is that we're hoping that this research workforce eventually they will become the academic, and then they can teach class to a broader audience, right? So we study research

534
01:24:29.000 --> 01:24:33.500
Juan Jenny Li (NSF/OAC): offers and they can expand eventually to the general public.

535
01:24:39.360 --> 01:24:42.439
Tom Gulbransen NSF/OAC: Okay, I don't see any other questions

536
01:24:42.570 --> 01:24:53.020
Tom Gulbransen NSF/OAC: again. Thank folks are hanging in there to listen in. Their new date is coming up. Some of us will be available over the holiday time period. So please ask your questions early, so we can help you

537
01:24:53.390 --> 01:24:54.769
Tom Gulbransen NSF/OAC: for more answers.

538
01:25:03.520 --> 01:25:07.309
Tom Gulbransen NSF/OAC: I just just a thank you for the answers you provide.

539
01:25:07.910 --> 01:25:10.070
Juan Jenny Li (NSF/OAC): Appreciate that. Okay.

540
01:25:10.390 --> 01:25:22.730
Juan Jenny Li (NSF/OAC): So before we go away, please notes, we provide this Webinar recording if the whole thing is recorded, and there's a link here, we can watch them if you need

541
01:25:22.870 --> 01:25:33.219
Juan Jenny Li (NSF/OAC): is just for some of your questions, and also you can send us additional questions if you feel that some of them is not answered yet today in can send us email.

542
01:25:33.490 --> 01:25:36.039
Juan Jenny Li (NSF/OAC): What are you? Additional questions?

543
01:25:37.110 --> 01:25:39.859
Tom Gulbransen NSF/OAC: And thank you, Jenny. I'm Shock and Andre for

544
01:25:40.490 --> 01:25:41.760
it It happens

545
01:25:43.970 --> 01:25:45.510
we're going to stop sharing

546
01:25:47.600 --> 01:25:49.279
Tom Gulbransen NSF/OAC: happy holidays.

547
01:25:57.470 --> 01:25:59.520
Juan Jenny Li (NSF/OAC): Thank you for joining us

548
01:26:04.190 --> 01:26:05.570
Juan Jenny Li (NSF/OAC): two left.

549
01:26:08.190 --> 01:26:09.369
Juan Jenny Li (NSF/OAC): I didn't care.