ATLAS Proposal Form Worksheet

This worksheet shows all questions in the electronic ATLAS proposal form. Users may utilize this worksheet to gather the necessary information in preparation for submitting the electronic form.

This worksheet will not be accepted as a substitute for the electronic ATLAS proposal form.

For question please contact Daniel Santiago-Gonzalez (dsg@anl.gov).

* Required			
1.	PI last name *		
2.	PI first and middle name *		
Co-l	PI (alternate)		
3.	Co-PI email address		
4.	Co-PI last name		
5.	Co-PI first and middle name		
5.	Who is filling this form? *		
	Mark only one oval.		
	PI		
	Co-PI		
	Other:		

PI demographics The information contained in this sections will not be part of the proposal review process and will not be made public. Rather, the information collected here will be aggregated by the user liaison and used, for example, to track success rate of various groups.

7.	PI gender *
	Mark only one oval.
	Female
	Male
	Prefer not to say
	Other:
8.	PI career level *
	Mark only one oval.
	Graduate student
	Early career (less than 10 years after PhD)
	Mid career (10+ years after PhD)
	Senior (20+ years after PhD)
	Prefer not to say
	Other
9.	Has the PI submitted another proposal to a previous ATLAS PAC? *
	Mark only one oval.
	Yes, as PI or Co-PI Skip to question 10
	Yes, as collaborator (i.e. not as PI or Co-PI) Skip to question 15
	No Skip to question 15
	Don't know Skip to question 15
	Prefer not to say Skip to question 15
	Status of your previous ATLAS experiments from the last few years
10.	Have your ATLAS experiment(s) produced any student dissertations? *
	Mark only one oval.
	Yes
	○ No

Please provide links to the dissertations			
Have your ATLAS experiment(s) produced any publications? *			
Mark only one oval.			
Yes			
◯ No			
Please provide links to the publications			
Status of data from your latest ATLAS experiment as PI or Co-PI *			
Status of data from your latest ATLAS experiment as PI or Co-PI * Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval.			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval. Published			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval. Published Manuscript under review (submitted)			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval. Published Manuscript under review (submitted) Manuscript in preparation			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval. Published Manuscript under review (submitted) Manuscript in preparation On-going data analysis			
Think about the data from the last ATLAS experiment that ran for which you were PI or Co-PI Mark only one oval. Published Manuscript under review (submitted) Manuscript in preparation On-going data analysis Data is not publishable - beam or technical issues			

Proposal type and beam time request

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f the same physics case of present proposal was reviewed at a previous ATLAS PAC to motivate the development of a new capability or to implement a significant examples are: development of a new beam (stable, in-flight, long-lived radioactive), ice, development of a new detector, etc. Some LOIs may request no beam time (0
art of a student thesis/dissertation? *
art of a student triesis/dissertation:
ed for your experiment *
e, if this is a letter of intent.
in your request? *
tions typically assigns 1 day for stable, long-lived or low-energy CARIBU beams, and ed CARIBU beams
i

15. Please select the proposal type *

20.	Is this one continuous run? * In other words, are all requested days consecutive?
	Mark only one oval.
	Yes Skip to question 23 No Skip to question 21
	Not applicable Skip to question 23
	Beam time splitting
21.	Please specify desired splitting of days * For example, 2+3 indicates 5 days are split into 2 non-consecutive periods of 2 and 3 days
22.	Days between runs? * Please indicate how many days ought to be left between each run. A number is expected as answer but text is allowed if needed.
	Impact on Workforce Development and Diversity, Equity, and Inclusion (DEI)
23.	Are there actions related to the proposed work that aim at supporting workforce training? * List applicable actions or type "N/A" if this does not apply to your proposal or LOI.
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23.	Are there actions related to the proposed work that aim at supporting workforce training? * List applicable actions or type "N/A" if this does not apply to your proposal or LOI. Are there actions related to the proposed work that aim at improving workforce diversity/equity, or at developing of a more inclusive community?
	Are there actions related to the proposed work that aim at supporting workforce training? * List applicable actions or type "N/A" if this does not apply to your proposal or LOI. Are there actions related to the proposed work that aim at improving workforce diversity/equity, or at *
	Are there actions related to the proposed work that aim at supporting workforce training? * List applicable actions or type "N/A" if this does not apply to your proposal or LOI. Are there actions related to the proposed work that aim at improving workforce diversity/equity, or at developing of a more inclusive community?
	Are there actions related to the proposed work that aim at supporting workforce training? * List applicable actions or type "N/A" if this does not apply to your proposal or LOI. Are there actions related to the proposed work that aim at improving workforce diversity/equity, or at developing of a more inclusive community?

Beam specifications

	See https://www.anl.gov/atlas/available-beams for more details. For long-lived radioactive beams extracted dire from the ECR ion sources (e.g. 14C, 85Kr, 223Ra), please select "Long-lived radioactive".	
	Mark only one oval.	
	Stable Skip to question 44	
	Long-lived radioactive Skip to question 39	
	In-flight (RAISOR) Skip to question 26	
	Reaccelerated nuCARIBU Skip to question 33	
	Low-energy nuCARIBU Skip to question 51	
	No beam (for LOIs, or when only using radioactive sources e.g. 67Cu, 252Cf) Skip to question 50	
	On-target specifications for in-flight (RAISOR) beams. See https://www.anl.gov/atlas/inflight-radioactive-beams for a list of possible beams. Contact Calem Hoffman (crhoffman@anl.gov) for more details. Primary beam(s) and production target(s) will be selected by ATLAS operations staff based on the specified secondary beam.	
	Please separate specifications of multiple beams with commas.	
26.	In-flight (radioactive) beam species * Example: 18F, 26Al	
27.	In-flight beam designation * Use the table in the following website to get the beam designation: https://www.anl.gov/atlas/inflight-radioactive-peams	
	Mark only one oval.	
	Available	
	Expected	
	Not shown in table	
28.	Energy units *	
	Mark only one oval.	
	MeV	
	MeV/u	

25. Beam type *

29.	Energy *		
	On-target beam energy. A number is expected as answer, however text is allowed in case you need to make comments (this is not common). The beam energy units will be taken from your selection in the previous question.		
30.	Intensity (pps) * Preferred format: 5.0E+4. Use the table in the following website to see the maximum available/expected intensity (rate): https://www.anl.gov/atlas/inflight-radioactive-beams		
31.	Minimum purity (%) * What is the minimum beam purity needed to achieve your physics goals? Use the table in the following website to see the expected purity for your beam: https://www.anl.gov/atlas/inflight-radioactive-beams . If you have questions about the beam contaminants, please contact Calem Hoffman (crhoffman@anl.gov).		
32.	In addition to the in-flight and primary beam(s) above, do you need other stable beam(s)? * Mark only one oval. Yes Skip to question 44 No Skip to question 48		
	Reaccelerated nuCARIBU beams	On-target specifications for reaccelerated nuCARIBU beam(s). See https://www.anl.gov/atlas/caribu-beams for a list of available beams and their expected intensity. Please separate specifications of multiple beams with commas.	
33.	Nuclide(s) *		
34.	Energy units * Mark only one oval. MeV MeV/u		

35.	Reaccelerated	beam energy *
	-	energy. A number is expected as answer, however text is allowed in case you need to make is not common). The beam energy units will be taken from your selection in the previous question.
36.	Intensity (pps)	
	Preferred format	:: 5x10^4
37.		DF device to suppress isobaric contaminants? * tion Time-Of-Flight (MRTOF) device can significantly suppress isobaric contaminants but will reduce
		ity by a factor of 3 to 5.
	Mark only one o	oval.
	Yes	
	No	
38.	In addition to th	ne nuCARIBU beam(s) above, do you need other stable beam(s)? *
	Mark only one o	oval.
	Yes S	kip to question 44
	No Sk	rip to question 48
Skip	to question 48	
	Long-lived radioactive	On-target specifications for long-lived radioactive beam(s) extracted directly from the ECR3 ion source. For more information please email Daniel Santiago (dsg@anl.gov).
	beams	
39.	Nuclide(s) *	
	Check all that ap	ply.
	14C	
	85Kr	
	223Ra	
	Other:	

40.	D. Energy units *		
	Mark only one oval.		
	◯ MeV		
	◯ MeV/u		
11	Energy *		
41.	On-target beam energy. A number is expected as answer, however text is allowed in case you need to make		
	comments (this is not common). The beam energy units will be taken from your selection in the previous question.		
42.	Intensity (pnA) *		
	On-target beam intensity in particle nano Amperes (pnA). A number is expected as answer, however text is allowed in case you need to make comments or if you need to use units other than pnA (this is not common). Note: 1 pnA =		
	6.25x10^9 ions/sec		
43.	In addition to the long-lived radioactive beam(s) above, do you need other stable beam(s)? *		
	Mark only one oval.		
	Yes Skip to question 44		
	No Skip to question 48		
Ckin	to question 40		
ЗКІР	to question 48		
	On-target specifications for stable beam(s) extracted directly from the ECR2 or ECR3 ion sources. For more information see https://www.anl.gov/atlas/stable-beams or contact Daniel Santiago		
	Stable (dsg@anl.gov).		
	Please separate specifications of multiple beams with commas.		
44.	Nuclide(s) *		
45			
45.	Energy units *		
	Mark only one oval.		
	MeV		
	MeV/u		

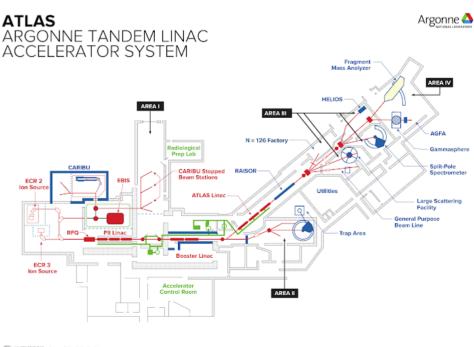
46.	Energy *			
	On-target beam energy. A number is expected as answer, however text is allowed in case you need to make comments (this is not common). The beam energy units will be taken from your selection in the previous question.			
47.	Intensity (pnA) * On-target beam intensity in particle nano Amperes (pnA). A number is expected as answer, however text is allowed in case you need to make comments or if you need to use units other than pnA (this is not common). Note: 1 pnA = 6.25x10^9 ions/sec			
Skip	to question 4	۹.		
	Special beam timing options	bucket, the bear	delivers the heavy-ion beams in "buckets", with a period of ~82 ns. Within one in particles are typically concentrated in a few ns. The devices in this section is all control of the beam timing structure. However most experiments do not require introl.	
48.	Not used in remove ("sw	eep") primary bean	Located near the low-energy side of the accelerator, this device can let through or n buckets. This is not the RIB sweeper. For more details on the capabilities of the Daniel Santiago (dsg@anl.gov).	
	Mark only o	one oval.		
	Yes No			
49.	Dobupobor	/Dobupobor *		
47.	Not used in bucket. It is	typically used to na	This device allows for some control over the beam time structure within a beam arrow the beam pulse width. For example, this device is needed when using Neutron lities of the rebuncher, please contact Daniel Santiago (dsg@anl.gov).	
	Mark only o	one oval.		
	Yes			
	No			
Skip	to question 5	70		
	Experiment and end sta		Please select the experimental devices or end stations to be used in your experiment (may select more than one)	

50. Equipment *

Che	eck all that apply.
	ATSCAT
	AGFA
	BPT
	CPT
	FMA
	Gammasphere
	HELIOS
	MicroBall
	MUSIC
	Neutron Shell
	N=126 factory
	Plunger
	Split-Pole Spectrometer
	X-array
	Other:

ATLAS floorplan

Use floor plan below to identify equipment location. To download a large-resolution image click on the following link (a new window will pop up): https://www.anl.gov/sites/www/files/2022-03/ATLAS_floor_plan_Mar2022.pdf. Notes: 1)
Gammasphere can be moved between FMA and AGFA beam lines. 2) The ATSCAT chamber is located in the room labeled "Large Scattering Facility". 3) MUSIC is located in the room labeled "Split-Pole Spectrometer". 4) The Beta Paul Trap (BPT) is located in the room labeled "Trap Area". 5) Low-energy beams from nuCARIBU can be delivered to target AREA I if your experiment requires a low background.



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Skip	to question 56	
	Low- Energy nuCARIBU beams	Click here to see the list of available beams with intensity estimates. Typical beam energies are 2 kV (CARIBU/nuCARIBU area) or 25 kV (Target area 1, variable energy). For more details contact Guy Savard (savard@anl.gov) or Daniel Santiago (dsg@anl.gov). Please separate specifications of multiple beams with commas.
51.	Nuclide(s) *	
52.	Intensity (pps) Leave blank if u	sing estimated intensities from our <u>website</u> .
53.	53. Need the MRTOF device to suppress isobaric contaminants? * The Multi-Reflection Time-Of-Flight (MRTOF) device can significantly suppress isobaric contaminants but will the beam intensity by a factor of 3 to 5.	
	Mark only one	oval.
	○ No	
54.	Experiment en	d station *
	Please select th	ne detector system(s) or end station(s) to be used in your experiment (may select more than one)
	Check all that ap	
	ATLANTIS	(for laser spectroscopy)
	SuN	
	X-array Other:	
55.	In addition to	the nuCARIBU beam(s) above, do you need other stable beam(s)? *
	Mark only one	oval.
	Yes	Skip to question 44
	No	

Target and beam stop specifications

Form more information on available targets see the Center for Accelerator Target Science (CATS) website at https://www.anl.gov/phy/center-for-accelerator-target-science or contact Claus Mueller-Gatermann (cmuellergatermann@anl.gov)

56.	Target material(s) * If using degrader foils please indicate it here.	
57.	Target thickness (mg/cm2)	
	For solid targets and degrader foils.	
F0		
58.	General target specifications * Select all that apply for your required target	
	Check all that apply.	
	Not applicable	
	is provided by CATS or ATLAS	
	is provided by user new targets could be made from "natural" material (no enrichment)	
	enriched material is preferred for new targets	
	is radioactive	
	is in gas form	
	is installed on a rotating wheel	
59.	Beam stop material(s) *	
	Common beam stop materials: Al, Ta, Fe. Select all that apply.	
	Check all that apply.	
	Not applicable	
	Aluminium	
	☐ Iron	
	Tantalum Don't know	
	Other:	
		Does your experiment require
	Safety	

60.	1. use of flammable gases? *			
	Mark only one oval.			
	Yes			
	No			
61.	2. lift of heavy equipment? *			
	If the load weighs in excess of 50 lbs, is awkward or hard to handle or re	equires th	ne use of crane, please select Yes.	
	Mark only one oval.			
	Yes			
	No			
62. 3. use of electrical equipment from outside ATLAS? (exclude computers) *				
Mark only one oval.				
	Yes Skip to question 63			
	No Skip to question 65			
	External Include any high voltage or high power electrics	al equipr	nent that would be added to the	
	electrical existing experimental station or beam line equipment			
63.	Describe electrical equipment *			
64.	Maximum voltage required (V)			
	Safety (cont.)		Does your experiment require	
	oursey (sorte.)			

	OPTIONAL. Select all that apply	
	Check all that apply.	
	Gamma-ray sources (Example: 88Y, 56,57,60Co, 152Eu, 182Ta, 243Am with less Alpha sources (Example: 228Th, GdCm with less than 10 micro-Ci) Fission source	s than 10 micro-Ci)
66.	4b. radioactive materials from outside ATLAS? * Sources, targets, etc.	
	Mark only one oval.	
	Yes Skip to question 67	
	No Skip to question 70	
	External radioactive materials	
67.	Describe radioactive material(s) * In addition to the description, please indicate if material will be used as target, as so	ource or for other purpose.
68.	Type of ionizing radiation	
	Check all that apply.	
	alpha	
	beta gamma	
	neutron	
69.	Total activity (Bq)	
	alpha + beta + gamma + neutron in Becquerel (1 Bq = 2.7e-11 Ci)	
	Safety (cont.)	Does your experiment require

65. 4a. use of ATLAS owned calibration sources?

70.	5. other unusual operations? *					
	Mark only one oval.					
	Yes Skip to question 71 No Skip to section 22 (Wrapping up (click "Submit" button to finish))					
	Unusual operations					
71.	71. Describe unusual safety operations or requirements *					
	Wrapping up (click "Submit" button to finish)	Remember to click the Submit button below and to send your proposal manuscript via a separate email to <u>atlas-proposals@anl.gov</u> . We will confirm reception of your file within 3 days.				
Please read before submitting By clicking 'Submit' you certify that the information presented on this form is correct and that all of the collaborators listed on your proposal have agreed to participate in the experiment.						

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