

Welcome to the "VI-SEEM Service Access Application Form". This form can be used to apply for the "1st Call for proposals for projects accessing VI-SEEM Resources and Services" that is published in the VI-SEEM project website.

Secti	on A: General Project Information
A1.	Project name
A2.	Project Acronym
A3. Provide	Project Description e a short summary of the project proposal. Note that this must be non confidential description of the project since this summary might be used in the public VI-SEEM website or other public VI-SEEM material, in case the proposal is successful
CR Ar	LS Area B: Computer-aided drug design. LS Area C: Analysis of Next Generation DNA sequencing data. LS Area D: Synchrotron data analysis. LS Area E: Image processing for biological applications. LS Area B: Air quality modelling, including atmospheric chemistry and air pollution transport. CR Area C: Weather forecast and extreme weather prediction, model development, application. A: Online services and access to repositories in order to enable studies of the immense cultural heritage in the region (e.g., searchable digital libraries with support of meta-data and OCR for Latin characters). LS area C: Unsupervised feature learning in photogrammetric techniques, data processing for image classification, semantic referencing; and geo-referencing.



Section B: Principal Investigator

Please provide the details of the project's investigators. The first investigator to be declared is also considered the Principal investigator and main contact point for issues related to the application and the project if accepted. Organisation and job title

B1.	Title		, ,	-;	,	;	, ,	,	,		; ;			;	,	-		7
B2.	First Name	e	, ,		,	3	; ;	,	;	;	; ;	;	-		,	-	, , , , , , , , , , , , , , , , , , , 	7
В3.	Last Name	;	1 1	,	7	;	, ,		,	-				-	,			7
B4.	Email							Please a	louble :	check v	ou e-mo	il for a	orrecti	noss si	o that	we ca	n reach you	
								i wast a		леск у	ou e ma	u jor c	orreca	1033 30) incu	we ca	n reach you	
B5.	Gender (M	[ale/Fe	emale))		<u>;</u>	<u> </u>		<u> </u>			<u> </u>		<u>;</u>	- 3	<u>.</u>		J
	`							V	Ve reqi	iire dec	claration	of you	ır gena	ler foi			easons only	
															M	ale	ļļ.	
															Fem	ale		
B6.	Date of Bir	rth									Г]
											L]
B7.	Nationality	7]
]
B8.	Phone nun	1ber]
B9.	Position he	eld 								i.e.	Profess	or, scie	ntific c	ollab	orator	, proj	ect manager	-
B10.	Organizati	on Na	me			,					, ,				,		;	٦
B11.	Departmen	nt	; ;	;	;	;	: :	,	;	;	; ;	;		;	;	;	-	7
B12.	Research (Group	Name	9	;	;	: :			-	1 1		-	-;	;		1	1



B13. Street Address	
B14. City	
B15. Postal Code	
Albania Armenia Armenia Azerbaijan Bosnia and Herzegovina Bulgaria Cyprus Egypt Former Yugoslav Republic of Macedonia Greece Hungary Israel Jordan Lebanon Moldova Montenegro Romania Serbia Turkey	



B17.	Do you want to add a Collaborator	Yes No
Secti Organiza	ion C: Project Collaborator 1 ation and job title	
C1.	Title	
C2.	First Name	
C3.	Last Name	
C4.	Email Please double check your e-mail for correctness s	so that we can reach you.
C5.	Gender (Male/Female)	Male Female
C6.	Date of Birth	
C7.	Nationality	
C8.	Phone number	
C9.	Position held i.e. Professor, scientific colla	borator, project manager
C10.	Organization Name	
C11.	Department	



C12.	Street Address
C13.	Postal Code
C14.	Country
C15.	Do you want to add another Collaborator? Yes No
Secti Organiza	ion D: Project Collaborator 2 utiona and job title
D1.	Title
D2.	First Name
D3.	Last Name
D4.	Email
D5.	Gender (Male/Female) Male Female
D6.	Date of Birth
D7.	Nationality
D8.	Phone number



D9.	Positio	n hel	d																			
D>.	1 051110	Ппск	J									i.e	. Proj	fessor	r, scien	etific c	collab	orato	r, proj	ject ma	ınager	
D10.	Organi	izatio	n Na	ıme																		
D11.	Group																					
DII	Group																					
D12.	Depart	ment																				
D12.	Берш																					
D13.	Street A	Addr	ess																			
D14.	City						1		-			-			-							
D15.	Postal	Code																				
																						I.
D16.	Countr	ſ y																				
																						I
D17.	Do you	want	to a	ıdd	ano	the	r C	olla	abo	rato	or?								Yes No	Ę Ė		
Secti Organiza	ion Ea	Pro ob title	ject	i Co	olla	bo	rat	or	3													
E1.	Title																					
E2.	First N	lame																				
																						I.
E3.	Last Na	ame																				



E4.	Email	<u> </u>	, ,	 	1	•	, ,	,	- 1	·	, ,	7		1
E5.	Gender (M	Iale/Fen	nale)								F	Male emale		
E6.	Date of Bi	rth												
E7.	Nationality	y												
E8.	Phone nun	nber												
E9.	Position ho	eld					i.e. F	Profess	or, scien	utific co	llabora	ator, pro	ject manager	
E10.	Organizati	ion Nan	1e											
E11.	Group													
E12.	Departmen	nt												
E13.	Street Add	Iress												
E14.	City													
E15.	Postal Cod	le												
E16.	Country													



E17.	Do you want to add another Collaborator? Yes No
Secti Organiza	on F: Project Collaborator 4 tion and job title
F1.	Title
F2.	First Name
F3.	Last Name
F4.	Email
F5.	Gender (Male/Female) Male Female
F6.	Date of Birth
F7.	Nationality
F8.	Phone Number
F9.	Position held i.e. Professor, scientific collaborator, project manager
F10.	Organization Name
F11.	Group
F12.	Department



F13.	Street Address										
F14.	City										
F15.	Postal Code		-			1 1		1	1	1 1	
F16.	Country										
F17.	Do you want to	add an	othe	r Coll	abor	ator?		<u>.</u>	 <u>.</u>		
	_ 0 , 0 0 0 0									Yes	
										No	
Secti Organiza	on G: Projetion and job title	ct Coll	labo	ratoı	: 5						
G1.	Title	, , ,		, ,		, ,	 		 ,	, ,	
G1.	Title										
G1. G2.	Title First Name										
G2.	First Name										
G2.	First Name Last Name										
G2.	First Name Last Name	Female))								
G2. G3.	First Name Last Name Email	Female))							Male	
G2. G3. G4.	First Name Last Name Email Gender (Male/I	Female))							Male	
G2. G3.	First Name Last Name Email	Female))								
G2. G3. G4.	First Name Last Name Email Gender (Male/I	Female))								
G2. G3. G4. G5.	First Name Last Name Email Gender (Male/I	Female)									



G8.	Phone number	
G9.	Position held	
	l.e. Frojes:	essor, scientific collaborator, project manager
C10	Outside Name	
G10.	Organization Name	
G11.	. Group	
O_		
G12.	. Street Address	
G13.	. City	
G14.	. Postal Code	
G15.	. Country	
Secti	ction H: Abstract of the project	
Н1.	If the project is successful this will be published on VI- unless you mark it as confidential below. Please make t understandable to a general audience. (Maximum 500 v	this summary



H2.	Is the summary above confidential?	
	Yes	
	No	
Secti	ion I: Required VI-SEEM Services	
I1.	Specify the VI-SEEM services that your application requires	l that apply.
	HPC Resources	ти арргу.
	Grid Resources	
	Cloud Resources	
	VI-SEEM simple storage service	
	VI-SEEM repository service	
	VI-SEEM archival service	
	Application Specific Service - LAS	
	Application Specific Service - Clouder	
	Application Specific Service - ChemBioServer	
If your a informat requirem HPC CC HPC CC Overall I	ion J: HPC Resources - Codes and computational resources requipplication requires the VI-SEEM HPC Resources service please fill in this section. This section is stion for each of the codes (applications), self-made or 3rd party based that you would like to use, a ments. HPC CODE 1 Details DDE 2 Details DDE 3 Details HPC Compute Requirements for all the codes that you have declared d single job size (number of cores) and single job memory (total memory usage over all cores of a mafer	s used for providing and their resource
J1.	CODE 1 - NAME	
J2.	CODE 1 - URL (if it exists)	
J3.	CODE 1 - Licence (Type and URL)	



J4.	Did/Do you develop CODE 1?	V.
		Yes No
J5.	Do you want to add another code?	
		Yes No
J6.	CODE 2 - NAME	
J7.	CODE 2 - URL (if it exists)	
J8.	CODE 2 - Licence (Type and URL)	
Ј9.	Did/Do you develop CODE 2?	Yes No
J10.	Do you want to add another code?	v.
		Yes No
J11.	CODE 3 - NAME	
740		
J12.	CODE 3 - URL (if it exists)	
J13.	CODE 3 Licence (Type and URL)	



J14.	Did/Do you develop CODE 3?
	Yes
	No
J15.	Number of total core-hours required to run all the codes (hours)
U —	
J16.	Wall-clock time of a typical job execution (in hours)
J17.	Are you able to write checkpoint during the job execution?
	Yes
	No L
J18.	Minimum (number of cores) for a single job
J19.	Minimum (total memory usage across all nodes used) for a single job
	(in GB)
J20.	Maximum (number of cores) for a single job (in GB)
J21.	Maximum (total memory usage across all nodes used) for a single job
J22.	
Jaa.	Total storage (work) - result and large input files (GB/TB)
J <i>22</i> .	Total storage (work) - result and large input files (GB/TB)
J <i>22</i> .	Total storage (work) - result and large input files (GB/TB)
J <i>22</i> .	Total storage (work) - result and large input files (GB/TB)
<i>,</i>	Total storage (work) - result and large input files (GB/TB)
<i>,</i>	Total storage (work) - result and large input files (GB/TB)
J23.	Total storage (work) - result and large input files (GB/TB) Total storage (home) / source code and scripts (GB/TB)
	Total storage (home) / source code and scripts (GB/TB) Total amount of data to be transferred to/from the production system
J23.	Total storage (home) / source code and scripts (GB/TB)



Section K: Grid Resources - Codes and computational resources requested

If your application required the VI-SEEM Grid Resources service please fill in this section. This section is used for providing information for each of the codes (applications), self-made or 3rd party based that you would like to use and their resource requirements.Grid CODE 1 Details

Grid CODE 2 Details Grid CODE 3 Details

Overall C Storage Data tran	Grid Compute Re	equiremen	nts for all t	the co	des th	at yo	u have	decla	red						
K1.	CODE 1 - N	AME													
K2.	CODE 1 - U	RL (if i	it exists)											
К3.	CODE 1 - L	icence (Type ar	nd U	RL)										
K4.	Did/Do you	develop	CODE	1?								Mark o	nly or	ne oval.	
K5.	Do you wan	t to add	anothe	r cod	le?							Yes No			
K6.	CODE 2 - N	AME													
K7.	CODE 2 - U	RL (if i	it exists)											
К8.	CODE 2 - L	icence (Type ar	nd U	RL)										



K9.	Did/Do you develop CODE 2? Mark only one oval. Yes No
K10.	Do you want to add another code? Yes No
K11.	CODE 3 - NAME
K12.	CODE 3 - URL (if it exists)
K13.	CODE 3 Licence (Type and URL)
K14.	Did/Do you develop CODE 3? Yes No
K15.	Number of total jobs that you are planning to submit using all codes you have specified above
K16.	Wall-clock time of a typical job execution (in hours)
K17.	Minimum memory usage for a single job (in MB)
K18.	Maximum memory usage for a single job (in MB)
K19.	Total storage (work) - result and large input files (GB/TB)
K20.	Total amount of data to be transferred to/from the production system (GB)



If your ap	On L: Cloud Resources requested oplication required the VI-SEEM Cloud Resources service please fill in this section. This section is used for providing on about the number and types of VMs your application requires.
L1.	Total number of required virtual cores required
L2.	Total number of VMs required
L3.	Total amount of file storage space required (in GB), i.e. Storage space provided in attached volumes
L4.	Total amount of Hard Disk Storage required (in GB). i.e. The total ammount of the boot disks of all VMs that you require
L5.	Total amount of RAM required(in GB) i.e. overall ammount of RAM over all VMs that are required
L6.	Total number of public IPv4 addresses requred
L7.	Operating System(s) required Linux Distribution A version of the Microsoft Windows OS Other Other
	on M: VI-SEE Repository Service requirements eplication required the VI-SEEM Repository Service for you to store data, service please fill in this section.
M1.	Total amount of sotrage space needed for your data (in GB)
	On N: VI-SEE Archival Service requirements oplication required the VI-SEEM Archival Service for you to store data, service please fill in this section.
N1.	Total amount of sotrage space needed for your data (in GB)



	on O: Application Specific LAS Service oplication required the VI-SEEM LAST for you to store data, service please fill in this section.
	Total amount of storage space needed for your data storage (in GB). If you will not use LAS to store data please fill in the box with 0.
	on P: Application Specific Clowder Service oplication required the VI-SEEM Clowder for you to store data, service please fill in this section.
	Total amount of storage space needed for your data storage (in GB). If you will not use LAS to store data please fill in the box with 0.
Please pro	On Q: Scientific Case ovide all details about the scientific case of your project explaining why it should be granted access to the requested based on the criteria of the call.
Please incl and/or socio	Describe your research project. Include discussion of the scientific questions that you are planning to address and the overall scientific goals of the project. It is important that you describe the novelty, impact and timeliness of the proposal. but a mong other items that you consider essential for the scientific evaluation: summary of the proposed research, what is the scientific tail impact, what is the state of the art for the studied field, what is the innovation that your research will bring in comparison to the state of art, why numerical simulation is an effective tool to achieve your scientific aims and objectives) (This section must be no longer than 2 pages)



Q2.	Recent bibliographic references that are relevant to the project.
Q3.	Describe the numerical methods and algorithms that you are planning
	to use, improve, or develop. List the codes, packages or libraries that you need to carry out the project and explain how these will enable
Even if y	the research to be achieved ou are using an existing application please explain what are the methods that this application uses and are going to be used to solve your
	problem. (1 page)



Q4.	Explain why this project needs the requested VI-SEEM services, why										
	the selected VI-SEEM services are suitable for the project and how										
	the use of the services and resources will enable the science proposed.										
	You should describe the architectural characteristics of VI-SEEM										
	resources that are beneficial to your applications and the problem										
	sizes that have been used to test for scaling and provide supporting										
	evidence (applicable for HPC resources).										
Describe o	on what systems and services you are currently using, what are the limitations of these systems, what characteristics of VI-SEEM services										
	vailable on systems you currently use. For applications requesting HPC, Grid or Cloud resources please provide performance and scaling										
	data of your runs on any type of systems you are running.										
Q5.	In case you are requesting HPC resources:										
	Justify the number of core hours requested (per code). This should include information such as: run type, wall clock time per step, number of jobs per run type, the number of CPU cores and the total core hours per run type. This information should take the form of a table. Explain how the core hours requested will be used (1 page).										



Q6.	Describe your experience using resources and services similar to the ones you have requested, in the past and how you will manage	
	using such services and resources. What other experience do you and	
	your team bring to this project?	
Descr	ribe your team's experience on using HPC resources, like System types, Modules / Pre-installed Applications, Compilers, Libraries, Parallel	
	Execution Environments, Batch Systems, Work with save / restart schema in themaximum wall time limits per job. (1 page).	
Q7.	If applicable please explain what type of data you could make	
Q/.	available to the VI-SEEM communities if your application gets	
	accepted. What would be the license type? Are there any	
	confidentiality issues with such data?	



Q8.	If applicable please explain what type of software you could make	
	available to the VI-SEEM communities if your application gets	
	accepted. What would be the licence for such software?	
•		
Q9.	If applicable please explain what type of application specific services	
Q).	or workflows you could make available to the VI-SEEM communities	
	if your application gets accepted. What would be the licence for	
	services, workflows?	