ANNEX.1A

## UNIVERSITA' DEGLI STUDI DEL MOLISE

## Area Innovazione e Sviluppo

## PhD IN ECOLOGY AND TERRITORY (DOT197W57F)

Coordinator: prof. Bruno LASSERRE

Length of course	1st November 2019 – 31st October 2022
Educational targets	The PhD Course in Ecology and Territory aims to develop advanced scientific and technological abilities required to carry out highly qualified autonomous research activities, even with an interdisciplinary approach, to apply to the fields of conservation, enhancement, management and sustainable planning of natural resources and territorial heritage, also with reference to the process of territorialisation in a diachronic perspective. In particular, doctoral students acquire theoretical and practical knowledge to: carry out functional analysis of environmental (geo-eco-cultural) and territorial systems, define and implement environmental and territorial monitoring protocols and advanced tools for the conservation and enhancement of biodiversity, develop and use sustainable landscape management and planning approaches, carrying out environmental impact analysis and strategic environmental and cultural assets. Overall, the course involves the study of the territory in its different dimensions, with innovative multi-scale approaches aimed at integrating the need for environmental protection and health with that of sustainable socio-economic development, also through the design of prevention and management systems of natural and man-made risks, of green infrastructures for resilience and urban regeneration. The interdisciplinary training objectives of the course are also oriented towards the acquisition of in-depth knowledge of the English language, data processing skills, and ability to manage research activities.
Admission requirements	<ul> <li>A University degree obtained after 2-year specialization courses</li> <li>A University degree (old university legislation)</li> </ul>

	- Foreign academic qualification already declared equipollent by
	competent Italian authorities or deemed equivalent for the sole
	purposes of the competition.
Total available	Total available positions 6:
positions	- 5 positions with scholarship, 1 of which reserved to students
	graduated at the foreign Universities
	- 1 positions without scholarship
	Italian candidates
Exame Modalities of	• Evaluation of qualifications and project proposal approved to the
edmission	- Evaluation of quantications and project proposal annexed to the
	approation
	•Interview in Italian or English language
	<ul> <li>Language: compulsory knowledge of English language</li> </ul>
	Italian candidates residing abroad
	• Evaluation of qualifications and project <b>proposal annexed to the</b>
	application
	•Possible interview in videoconference.
	A Skype contact is compulsory
	Foreign candidates
	• Evaluation of qualifications and project <b>proposal annexed to the</b>
	application
	<ul> <li>Interview in English language</li> </ul>
	•Language: compulsory knowledge of English language
	ggf
	Foreign candidates residing abroad
	• Evaluation of qualifications and research project <b>proposal appexed</b>
	to the application
	Possible interview in videoconformed
	A Classic de la classica de la class
	A Skype contact is compulsory
Interview	Place: Università degli Studi del Molise, Dipartimento di Bioscienze e Territorio, Pesche (IS)

	<b>Date</b> : starting from 18 <sup>th</sup> September 2019 at 9.30 according to the agenda established by the commission based on the number of the duritted to the interview.
Other assessable	Qualifications evaluated up to 20/80 points:
qualifications	- Final degree mark; in the case students did not graduated yet the average of the marks obtained to each exam will be considered
	- Scientific publications on peer-reviewed journals (max. 3), scientific publications in congress proceedings (max 3), participation to national and international congresses with oral presentations and posters;
	- Other qualifications considered evaluable (study grants, awards, courses attended, Masters, Erasmus or study programs abroad, work experiences related to the PhD themes, etc)
Criteria for evaluating	Evaluation of qualifications is preparatory in order to be admitted to the
the exams	tests. All candidates having scored at least 15/80 and 15/80 for the
	for the interview. The scores will be published, as soon as available.
	and before the interview, on the web site of the Dipartimento di
	Bioscienze e Territorio <u>http://dipbioter.unimol.it/</u>
	Scored at most 20/80 for the titles
	Scored at most 20/80 for the titles scored at most 60/80 for the project presentation:
	Scored at most 20/80 for the titles scored at most 60/80 for the project presentation: 20/80 for the research project proposal annexed to the application
	Scored at most 20/80 for the titles scored at most 60/80 for the project presentation: 20/80 for the research project proposal annexed to the application form
	Scored at most 20/80 for the titles scored at most 60/80 for the project presentation: 20/80 for the research project proposal annexed to the application form 40/80 for the oral presentation and discussion of the research
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Examination themes	Scored at most 20/80 for the titles scored at most 60/80 for the project presentation: 20/80 for the research project proposal annexed to the application form 40/80 for the oral presentation and discussion of the research project proposal annexed to the application form Application forms should be accompanied with a research project proposal completed with date and signature. The proposal will be discussed during the interview. It is compulsory to send the research project with the application.
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Examination themes	<ul> <li>Scored at most 20/80 for the titles</li> <li>scored at most 60/80 for the project presentation:</li> <li>20/80 for the research project proposal annexed to the application form</li> <li>40/80 for the oral presentation and discussion of the research project proposal annexed to the application form</li> <li>Application forms should be accompanied with a research project proposal completed with date and signature. The proposal will be discussed during the interview.</li> <li>It is compulsory to send the research project with the application. The research project must have a maximum length of 10.000 characters (excluding references) and it can include drawings, figures and graphs. The project proposal must be on one of the following themes:</li> <li>A) Analysis of the effects of global changes on high altitude ecosystems</li> </ul>
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Examination themes	<ul> <li>Scored at most 20/80 for the titles</li> <li>scored at most 60/80 for the project presentation:</li> <li>20/80 for the research project proposal annexed to the application</li> <li>form</li> <li>40/80 for the oral presentation and discussion of the research</li> <li>project proposal annexed to the application form</li> <li>Application forms should be accompanied with a research project</li> <li>proposal completed with date and signature. The proposal will be discussed during the interview.</li> <li>It is compulsory to send the research project with the application.</li> <li>The research project must have a maximum length of 10.000</li> <li>characters (excluding references) and it can include drawings, figures and graphs. The project proposal must be on one of the following themes:</li> <li>A) Analysis of the effects of global changes on high altitude ecosystems</li> <li>B) Use of remote sensing data and modelling approach supporting ecosystem-based territorial planning</li> </ul>

C) Monitoring and impact of the waste that accumulates in the
natural peripheral and marine-coastal environments
D) Analysis and modelling of the short-medium term evolution of
man-made Mediterranean beaches
E) Analysis and relationships between growth rings, wood density
of each single growth ring and wood quality in Silver fir
populations located in their southernmost European limit
F) Cartography and modelling of coastal ecosystems through the
use of remote sensors
G) Decomposition dynamics and relative characteristics of dead
wood in samples of beech and silver fir
H) Enhancement of the environmental and cultural resources of
the sea and coasts
Scholarship reserved to students graduated in foreign Universities
A) integrative taxonomy and niche modelling approaches to identify conservation units and priority areas for wide ranging carnivore mammals
For the oral presentation and discussion of the project candidates could use information technology supports.