

Principal investigator	Rinaldo Botondi
Curriculum	Foods
Action	GREEN
Scientific area	AGR/15
The PhD course will last	3 years
Research Topic	“Application of "green technologies" in the fruit and vegetable industry chain”
Summary of the research topic	The project aims to implement sustainable precision farming techniques in the field and the use of Agriculture 4.0 technologies both in the field and in fruit and vegetable processing and storage facilities. The final objective is to set up a process aimed at obtaining "healthy, wholesome and safe" products with nutritional and qualitative characteristics that comply with food regulations and certification.
Period in the private sector (months)	12
Research period abroad (months)	0
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none"> - At least 1 scientific publication in a national or international journal - At least 1 participation in a national or international conference



Principal investigator	Rinaldo Botondi
Curriculum	Foods
Action	GREEN
Scientific area	AGR/15
The PhD course will last	3 years
Research Topic	“Ozone technology for sanitization and product quality in the dairy chain”
Summary of the research topic	The project aims to study the use of ozone technologies in the different processes of processing and storage of dairy products in order to control mainly the microbiological proliferation and the development of parasites and insects, without altering the normal processes of aging.
Period in the private sector (months)	6/8
Research period abroad (months)	0
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none">- At least 1 scientific publication in a national or international journal- At least 1 participation in a national or international conference



Principal investigator	Giovanni Chillemi
Curriculum	Foods
Action	GREEN
Scientific area	AGR/17
The PhD course will last	3 years
Research Topic	“Development of strategies to mitigate the Climate Change effects on livestock sector using machine learning and artificial intelligence methods”
Summary of the research topic	The livestock sector is central to the climate change mitigation strategy due to its high emissions of greenhouse gases in particular methane from ruminants. The objective of the project is to contribute to the study on the gentle breeding of farm animals that produce lower greenhouse gas emissions and resistant to climate change, at the same time ensuring the biodiversity of farm animals.
Period in the private sector (months)	6
Research period abroad (months)	6
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none">- At least 1 scientific publication in a national or international journal- At least 1 participation in a national or international conference



Principal investigator	Nico Sanna
Curriculum	Forest Ecology and Environmental Technologies
Action	Innovation
Scientific area	CHIM/03
The PhD course will last	3 years
Research Topic	“High performance technologies based development and optimization of neural networks for big data analysis in key agri-food, forest and ecology areas”
Summary of the research topic	The project has as its objective the study of high-performance technologies for the optimization and development of neural networks and subsequent analysis of big data of agri-food forestry and ecological interest.
Period in the private sector (months)	6-8
Research period abroad (months)	6
Language of the interview	English
Target (Research outcomes to be achieved during the PhD period)	<ul style="list-style-type: none">- At least 1 scientific publication in a national or international journal- At least 1 participation in a national or international conference



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