

# POSTDOCTORAL POSITION IN AGRICULTURE AND ENVIRONMENTAL SCIENCES



FACULTAD DE AGRONOMÍA  
E INGENIERÍA FORESTAL  
PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

UNIVERSIDAD CATÓLICA, CHILE | AUGUST 2020

The College of Agricultural and Forestry Sciences UC is looking for highly motivated and talented researchers, with a background in Agricultural, Biology, Ecology, Environmental Economics, Engineering and the like, to apply for the Postdoctoral Research Fellowship.

We are looking for researchers with the ability to work in a multicultural environment and to be part of an interdisciplinary team.

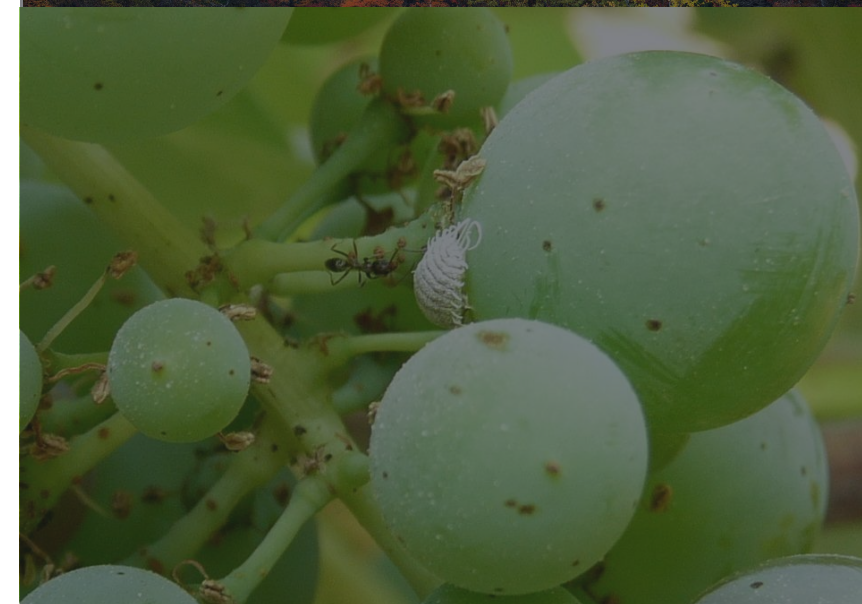
**The contest is aimed at researchers who have obtained their doctorate from January 1, 2017 until the closing date of applications.**

## ➤ SCHOLARSHIP CONDITIONS

Those interested should apply for the Fondecyt scholarship with the support and guidance of the Faculty. The scholarship includes a salary of approximately US \$ 27,000 per year (amount for the 2020 call). In addition, an amount will be assigned for travel, Operating Expenses and Capital Goods (US\$ 5,500) and health insurance (US\$560) annually. It also considers financing to settle in Chile for scientists residing abroad at the time the results of the call are communicated (US\$ 3,500 at one time).

## ➤ SPONSOR OF THE PROPOSAL

The application must be sponsored by an academic from our faculty, making available his/her laboratory, equipment, and facilities for the development of postdoctoral research. The list of research projects offered by academics at FAIF UC, can be found next.



## THE COLLEGE OF AGRICULTURAL AND FORESTRY SCIENCES UC



Pontificia Universidad Católica de Chile is an institution with a global reputation for research and teaching. Recently, the QS Ranking ranked UC as the Chilean institution with the highest number of disciplines among the best in the world and ranked it fourth in Latin America.

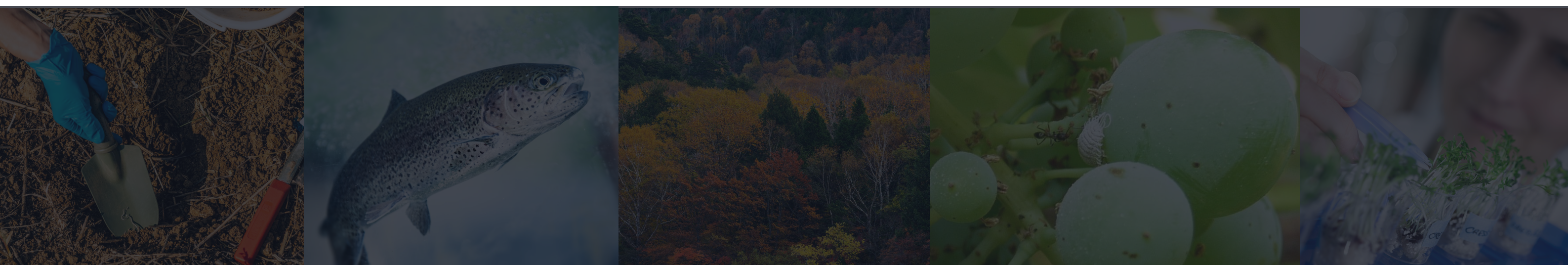
We have more than 30 research laboratories that cover aspects from the genetics and genomics of plants, to winemaking animal physiology and the generation of new ingredients and foods.

**CHECK 40+ RESEARCH PROJECTS LOOKING FOR A POSTDOC**  
**POSTGRADO.AGRONOMIA.UC.CL**

# RESEARCH LINES

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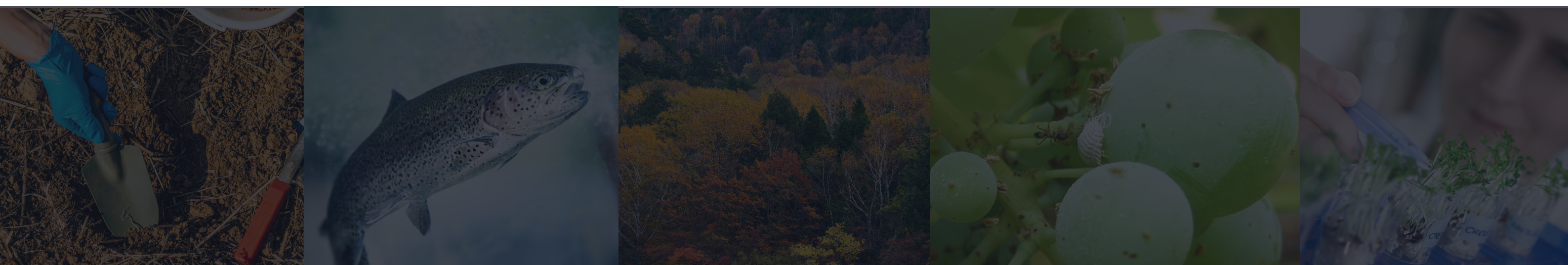
Study group	Scientific disciplines	Researcher/Sponsor	Research
Agronomy	Plant Breeding	Andrés Schwember N.	Genetic and environmental studies of durum wheat grain yields grown under abiotic stress.
Agronomy	Crop Science	Andrés Schwember N.	Agronomic studies of organic chickpeas and lentils cultivated in Central Chile.
Agronomy	Plant breeding; Functional Foods; Human health	Andrés Schwember N.	Multidisciplinary studies on bioactive compounds from the <i>Chilean Phaseolus vulgaris L.</i> landraces and their potential effects in the prevention of non-communicable chronic diseases
Agronomy	Environmental chemistry	Daniel Schwantes F.	Environmental dynamics of pesticides in Chilean soils.
Agronomy	Soil Sciences; Agroecology	Eduardo Arellano O.	Ecological intensification and sustainable farming.
Agronomy	Soil science/Ecology	Eduardo Arellano O.	Soil functions and ecosystem services in fruit farm systems.
Agronomy	Plant Nutrition, Plant Physiology	Francisco Albornoz G.	Plant Nutrition of Soilless Crops.
Agronomy	Plant genetics, Plant breeding	Francisco Fuentes C.	Quinoa hybridization system to improve grain yield and quality.
Agronomy	Climate change, Crop Modelling, Hydrology, Remote Sensing	Francisco Meza D.	Estimating crop productivity and water use efficiency using multispectral and thermal imaging.
Agronomy	Plant Breeding in citrus; biotechnology	Johanna Mártiz M.	Development of citrus tetraploids to increase resistance to abiotic stress.
Agronomy	Biochemistry, engineering, postharvest	Juan Pablo Zoffoli G.	Non destructive evaluation of rachis browning in table grapes.
Agronomy	Plant Physiology and Patology	Juan Pablo Zoffoli G.	Environmental study of physiological disorder and diseases on table grape.
Agronomy	Horticulture, Postharvest biology, Biochemistry	Juan Pablo Zoffoli G.	Acidity in kiwifruit: synthesis and degradation under controlled environment.
Agronomy	Molecular markers, Plant breeding, Plant pathology	Marina Gambardella C.	Development of molecular markers to identify important agronomic characteristics (Phytophthora resistance, continuous flowering, drought resistance) in raspberry and strawberry breeding programs.



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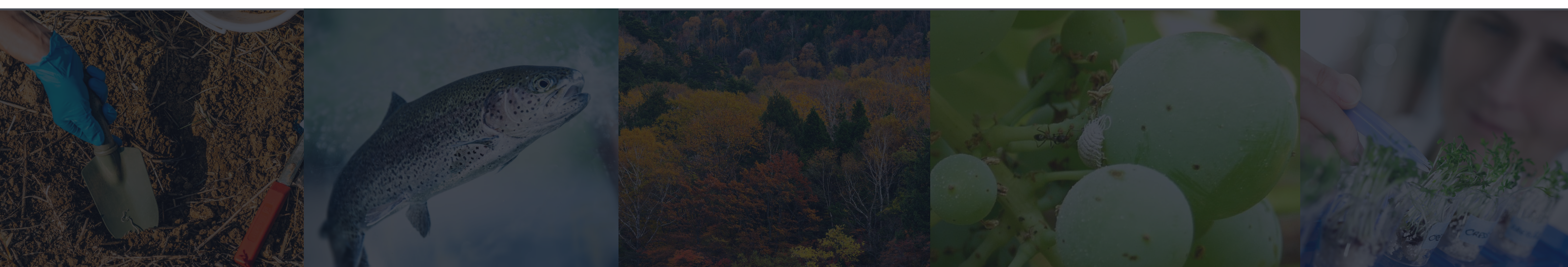
Agronomy	Enology, Food oral processing	Natalia Brossard A.	Red wine astringency sub-qualities: the effects of tannin-protein interactions on saliva lubricating properties.
Agronomy	Soil Sciences	Rosanna Ginocchio C.	Impact of Copper-based pesticides in soil quality of orchards in central Chile.
Agronomy	Agricultural Entomology, Ecology	Tania Zaviezo P.	Competitive interactions among parasitoids.
Agronomy	Agricultural Entomology, Ecology	Tania Zaviezo P.	Biodiversity conservation in fruit crops.
Agronomy	Agricultural Entomology, Ecology	Tania Zaviezo P.	Genetic diversity and biological control.
Agronomy	Plant Physiology	Ursula Steinfort N.	Expression analysis of photoperiod genes in <i>Chenopodium quinoa</i> .
Biology 1	Genetics and Evolution	Juliana Vianna D.	Local adaptation in penguins using genomics.
Biology 1	Genetics and Evolution	Juliana Vianna D.	Niche modeling using genomic data under climate change scenarios for vertebrate species.
Biology 1	Genetics and Evolution	Juliana Vianna D.	Natural selection signature and local adaptation using genomics for three fox species.
Biology 3	Molecular Biology; Plant Cell Biology	Jose O'Brien O.	Role of auxins and cytokinins during salt stress responses in plants.
Biology 3	Molecular Biology; Plant Cell Biology	Jose O'Brien O.	Natural variation as a tool to identify key genes in the response to multiple abiotic stresses in <i>Arabidopsis</i> .
Biology 3	Molecular Biology; Plant Cell Biology	Jose O'Brien O.	Role of the cell wall in stress responses in plants.
Earth Sciences	Meteorology and Climatology	Alejandro Chamorro C.	Towards a comprehensive characterization and understanding of extreme events and droughts in Chile. modeling historical changes and future projections.
Earth Sciences	Meteorology and Climatology	Alejandro Chamorro C.	Modelling of the actual effect of human action on the environment (e.g. forests) independent of the climatological signal. Effects in Chile and international learning.



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Economic and Administrative Sciences	Political Economy	Grace Melo G.	Assessment of a Comprehensive Food Policy Reform.
Economic and Administrative Sciences	Experimental and Behavioral Economy	Grace Melo G.	Understanding students' preferences and opinions in higher education under a black swam event.
Economic and Administrative Sciences	Experimental and Behavioral Economy	Grace Melo G.	Ambiguity, Learning, and Health Information: Evidence from an Experiment.
Economic and Administrative Sciences	Resource and Agricultural Economics, Environmental Economics, Behavioral Economics	Oscar Melo C.	Devising resilient water communities using experimental economics.
Economic and Administrative Sciences / Geografy	Environmental economics, causal inference analysis	Rodrigo Arriagada C.	Causal mechanisms of conservation policies.
Engineering 3	Bioengineering, Microbiology	Liliana Godoy O.	Improving phenotypes of oenological interest by adaptive evolution (ALE).
Forestry (Agronomy)	Applied Statistics, Remote Sensing	Horacio Gilabert P.	Modeling of large fires occurrence and damage in Chile.
Forestry (Agronomy)	Applied Statistics, Remote Sensing	Horacio Gilabert P.	Fuel biomass estimation in shrublands using aerial images.
Forestry (Agronomy)	Applied Statistics, Remote Sensing	Horacio Gilabert P.	Fuel biomass estimation in natural and planted forests using aerial images.
Forestry (Agronomy)	Statistics, Optimization, Remote Sensing, Urban Development	Horacio Gilabert P.	Wildfire risks at the wildland-urban interface.
Forestry (Agronomy)	Wildfire management; Remote sensing, Applied statistics,	Horacio Gilabert P.	Indirect Forest biomass estimation for fire management using spatio-temporal remote sensing.
Forestry (Agronomy)	Forestry and Forest Management	Marcelo Miranda S.	Adaptive forest management to improve forest resilience to decline in the Mediterranean ecosystem.
Forestry (Agronomy)	Forestry and Forest Management	Marcelo Miranda S.	Exploring multi-resolution remote sensing approaches to monitoring functional diversity changes in Mediterranean ecosystems.
Forestry (Agronomy)	Forest Engineering	María Paulina Fernández Q.	Ecophysiological and morphological response of Pinus radiata genetic material to different environmental stresses.



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Forestry (Agronomy)	Ecology, botany	Pablo Becerra O.	Vegetation ecology and restoration in central Chile.
Forestry (Agronomy)	Forest pathology and entomology; Molecular Biology	Priscila Moraga S.	Forest pest endosymbionts and their implications for Integrated pest management.
Forestry (Agronomy)	Forest pathology and entomology; Molecular Biology	Priscila Moraga S.	What is the role of forest tree microbiome in the native forest health?
Health and Animal Production/Biology 3	Food Safety; Microbiology; Epidemiology	Andrea Moreno S.	Antimicrobial resistance in foodborne pathogens.
Health and Animal Production	Animal Science and Livestock Science; Conservation; Livestock and Wild Animal	Cristian Bonacic S.	Conflict resolution between carnivores and livestock.
Health and Animal Production	Veterinary Sciences; Virology, Ecosystems Health, One Health	Fernando Mardones	Health assessment and indicators of the Chilean cetacean population: A sentinels for Ocean Health and Coastal management.
Health and Animal Production	Veterinary Diseases, Virology, Ecology; One Health	Galaxia Cortés H.	The importance of immunocompetence on the viral diversity of marine animals.
Health and Animal Production	Aquaculture, Genetics	Sebastian Escobar A.	Functional study of iron metabolism by using genome editing in salmon and trout.

