

### **Postdoctoral Grant Application 2019**

The Faculty of Chemistry at Pontificia Universidad Católica de Chile (1<sup>st</sup> in QS Latin American and 132 in QS World University Rankings) is interested in attracting researchers applying for the Postdoctoral Research Associate Grant (FONDECYT Postdoctoral 2019). This is the [link](#).

The announcement is addressed to researchers who have earned their doctoral degree as of January 1, 2015 or later.

The grant will cover salary for approximately USD 30,400 per year, travel and/or operational expenses for USD 6,700, and health insurance for USD 670 per year. It also considers funding of around USD 4,400 to settle in Chile for scientists residing abroad at the time the call results are communicated.

The projects must be presented by a candidate, who, in turn, is the author of the proposal and will have the status of Researcher. The application must be sponsored by a researcher and a sponsoring institution with legal status in Chile.

The faculty of chemistry at our University has the following lines are looking for a PostDoc:

Departments	Topic	Contact
Physical Chemistry	Theoretical and Computational Chemistry: Characterization of the mechanism of chemical reactions using density functional theory (DFT).	Alejandro Toro-Labbé <a href="mailto:atola@uc.cl">atola@uc.cl</a>
	Structural modifications induced by 1áncer1ón complexes with cucurbiturils Optimization in the detection of metals.	Margarita Aliaga <a href="mailto:mealiaga@uc.cl">mealiaga@uc.cl</a>
	Reactivity in ionic liquids: solvent effect	Paulina Pavez <a href="mailto:ppavezg@uc.cl">ppavezg@uc.cl</a>
	Ionic liquid processing of cellulose	
	Inorganic complexes synthesis	Eduardo Shott <a href="mailto:edschott@uc.cl">edschott@uc.cl</a>
	Metal-Organic Frameworks	
	Heterogeneous and Homogeneous Catalysis Sensors	Soledad Gutiérrez-Oliva <a href="mailto:msg@uc.cl">msg@uc.cl</a>
	Theoretical and Computational Astrochemistry: Characterization of chemical reaction in the interstellar space.	
	Theoretical and Computational Chemistry: Characterization of complex catalytic reaction.	
Synthesis and Characterization of Nanomaterials	Bárbara Herrera <a href="mailto:bherrera@uc.cl">bherrera@uc.cl</a> Angel Leiva <a href="mailto:aleivac@uc.cl">aleivac@uc.cl</a>	
Inorganic Chemistry	Organic solar cells: Synthesis, characterization, and fabrication of organic photovoltaic devices 1áncer1ó oligomeric small molecules as electron donor materials.	Felipe Angel <a href="mailto:faangel@uc.cl">faangel@uc.cl</a>
	Perovskite solar cells: Evaluation of perovskite materials in photovoltaic devices fabricated by 1áncer evaporation, beyond the archetype ammonium trihalogen plumbates.	



FACULTAD DE QUÍMICA  
PONTIFICIA UNIVERSIDAD  
CATÓLICA DE CHILE

	Implementation of analytical methodologies for bioprospecting	Ady Giordano <a href="mailto:agiordano@uc.cl">agiordano@uc.cl</a>
	Environmental chemistry and bioremediation of contaminated sites.	Eduardo Leiva <a href="mailto:ealeiva@uc.cl">ealeiva@uc.cl</a>
	Environmental biogeochemistry, modeling and generation of bioenergy.	
	Acid drainage of mining and water treatment.	
	Removal of arsenic from contaminated water.	
	Selective bioleaching of arsenic for the mining industry.	
	Improving Catalytic Activity: Synthesis and Characterization of Ligand for Specific Catalysts	
	Oxidation of peptides and proteins mediated by reactive species of biological and food relevance	René Rojas <a href="mailto:rrojasg@uc.cl">rrojasg@uc.cl</a> Camilo Lopez <a href="mailto:clopezr@uc.cl">clopezr@uc.cl</a>
Organic chemistry	Synthesis of microporous organic polymers: Polymers of intrinsic microporosity (PIMs).	Alain Tundidor <a href="mailto:atundido@uc.cl">atundido@uc.cl</a>
	Thermally Rearranged Polymers (TRs)	
	Polyimides-PIMs	
	Tröger's Base Polymers (TBs)	
	Applications in gas separation, hydrogen storage, catalysis and CO <sub>2</sub> sorbents.	
	Design, synthesis and biological evaluation of new Hedgehog signaling pathway inhibitors for treating Pancreatic Cancer	Cristian Salas <a href="mailto:cosalas@uc.cl">cosalas@uc.cl</a>
	New reactions catalyzed by copper.	Edwin Perez <a href="mailto:eperezh@uc.cl">eperezh@uc.cl</a>
	Synthesis of new monoamine reuptake inhibitors.	
	"Synthesis and properties study of silylated poly(azomethine)s with eventual applications in the opto-electronics field"	Claudio Terraza <a href="mailto:cterraza@uc.cl">cterraza@uc.cl</a>
Pharmacy	Medicinal chemistry: Synthesis of enzyme inhibitor compounds MAO-A and MAO-B	Christian Espinosa <a href="mailto:ccespino@uc.cl">ccespino@uc.cl</a>
	Medicinal chemistry: Synthesis of antagonist compounds of histamine receptors 3 y 4	
	Medicinal chemistry: Synthesis of antichagasic compounds	
	Cellular and molecular mechanisms of colon and pancreatic cancer. Role of GTPases and atypical cadherins (FATs). Crosstalk of molecular signaling pathways	Jaime Melendez <a href="mailto:jgmelend@uc.cl">jgmelend@uc.cl</a>
	Neurofarmacología de la impulsividad	Jose Fuentealba Evans <a href="mailto:jfuenta@uc.cl">jfuenta@uc.cl</a>

Questions should be directed to Camila Gutierrez ([cgutierrew@uc.cl](mailto:cgutierrew@uc.cl)), Research Manager.