

**BalikPhD Recruitment Program
(as of 31 December 2019)**

Cnt	Project Title	Name of Proponent	CU	Unit	Benefeciaries	Funding Sources	Duration (Years)	Start	End	Status	Total Program Budget	Publications	Other Outputs
1	Geophysical potential field investigation of the Macolod Corridor and adjacent regions: Crustal structure, heat flow, and deformation near the terminus of the Manila subduction zone	Armada, Leo	UPD	CS	students, LGU, geologists, researchers, academe	Balik-PhD	2	2018	2020	Ongoing	2,499,704.00		<p>Poster presentation titled "Potential field signature of Macolod Corridor: Constraints on rifting-related volcanism and deformation" and Oral presentation titled "Geophysical Signatures of the Manila Subduction Zone from the Mega-thrust to the Volcanic Arc" on May 20-23, 2019 at 6th Philippines-Taiwan Earth Sciences International Conference.</p> <p>Oral presentation titled "Tectonic Setting of the Macolod Corridor (Luzon Island, Philippines): Implications to Rifting and Associated Geohazards" at the Asia Oceania Geosciences Meeting.</p>
2	Prevalence of mental health problems among Filipino university students: Multi-site, mixed-method research	Del Castillo, Ronald Tolentino	UPM		researchers, students, academe	Balik-PhD	2	2017	2019 With extension until March 2020	Ongoing	2,490,257.60		
3	Host rock control on epithermal gold mineralization: clues from the Sangilo epithermal vein system and vicinity, Baguio Mineral District, Philippines	Gabo-Ratio, Jillian Aira Sibal	UPD	CS	researchers, students, academe	Balik-PhD	2	2017	2019	Ended	2,489,772.00		<p>Research collaboration with the Department of Earth Resources Engineering, Kyushu University in Fukuoka, Japan.</p> <p>JAS Gabo-Ratio, P Aguilera, MAK Yonezu, T Tindell, ES Andal. 2017. Geology and mineralization fo the Sangilo epithermal gold deposit, Baguio Mineral District, Philippines. Presented at the 2017 Goldschmidt Conference, Paris, France.</p>
4	Marine biodiversity of Taklong Island: Integrating biodiversity knowledge at the molecular, organismal and bioformatic levels	Malay, Maria Celia Defrance	UPV	CS	researchers, students, academe	Balik-PhD	2	2017	2019	Ended	2,500,000.00		The project leader presented the research proposal of the the TINMR Protected Area Management Board (PAMB) last February 2017, and also worked to coordinate with various agencies that need to give approval of the research plans.
5	Investigation of the redox potentials of Fe-humic acid complexes as a potential additive to increase bioavailability of iron in biofloc systems	Ortillo, Danilo Octaviano	UPV	CAS	researchers, students, academe	Balik-PhD	2	2017	2019	Ended	2,500,000.00		
6	Integrated geomorphologic, geochemical and geophysical studies on hydrothermally altered rocks and their influence on landslide susceptibility in Benguet Province, Philippines	Padrones, Jenielyn	UPLB	CFN	researchers, students, academe	Balik-PhD	2	2018	2020	Ongoing	2,499,945.60		<p>Mentored 1 MS student in the production of the landslide susceptibility map.</p> <p>An MS student was able to produce and present the maps in the 6th PTESIC on May 19-21.</p> <p>Pinkihan, B.D., Dida, J.J., Arizapa, J.L., Padrones, J.T., Tiburan Jr., C.L.(2018a). Mapping Landslide Susceptibility in Hydrothermally<altered Areas in Mankayan and Itogon, Benguet Province, Philippines using GIS and Remote Sensing. In NIGSCon: Paladútaan 2018, National Institute of Geological Sciences.</p> <p>Pinkihan, B.D, Dida, J.J., Arizapa, J.L., Padrones, J.T., Tiburan Jr., C.L. (2018b). Clay Minerals and Landslide Susceptibility Mapping in Mankayan, Benguet using GIS and Remote Sensing. In 5th AMCI8ISRI8RWG Technical Seminar, National Institute of Geological Sciences, UP Diliman.</p>

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													Pinkihan, B.D, Dida, J.J., Arizapa, J.L., Padrones, J.T., Tiburan Jr., C.L. (2019). Clay Minerals and Landslide Susceptibility Mapping in Mankayan, Benguet using GIS and Remote Sensing. In 6th Philippine8Taiwan Earth Sciences International Conference, Royce Hotel, Clark, Pampanga.
7	Ridge-to-reef disaster risk assessment and climate change impact assessment of water-related disasters in the Philippines	Sanchez, Patricia	UPLB	SESAM	local government units, disaster management agencies, general public	Balik-PhD	2	2018	2020	Ongoing	2,500,000.00		Mentor and support two master of science (MS) students with the help of this project. Institutionalization of two specialized courses for SESAM is also proceeding. The Graduate School Standing Committee on Physical Sciences was able to evaluate the contents of the course proposals last June 21, 2019.
8	Discovery of small molecule therapeutics from cyanobacteria	Salvador-Reyes, Lilibeth Apo	UPD	CS	biomedical reseachers, students, academe	Balik-PhD	2	2014	2017 With Extension until Feb 2018	Completed	2,500,000.00		Filed invention disclosure and application for patent protection on "Metal Binding from a Cyanobacterium for Bisorption and Bioremediation". Prior Informed Consent (PIC) from Alaminos, Bani, and Bolinao - Pangasinan, and Tanza, Cavite were endorsed to Department of Agriculture – Bureau of Fisheries and Aquatic Resources (DA-BFAR). The Memorandum of Agreement (MOA) from DA-BFAR was obtained, submitted for legal review and is currently being signed by the UP Diliman Chancellor and Secretary of DA. Once the MOA is finalized, Gratuitous Permit (GP) will also be released by DA-BFAR.
9	Self-force and radiation-reaction in novel settings	Vega, Michael Francis Ian II G.	UPD	CS	researchers, students, academe	Balik-PhD	2	2017	2019	Ended	2,500,000.00	Bernardo, R.C. and Vega, I. 2019. Hair-dressing Horndeski: An approach for obtaining hairy solutions in cubic Horndeski gravity. Physical Review D 99, Art. No. 124049. De Leon, K. and Vega, I. 2019. Weak gravitational deflection by two-power-law densities using Gauss-Bonnet theorem. Physical Review D 99, Art. No. 124007. Revelar, K.S. and Vega, I. 2017. Overcharging higher-dimensional black holes with point particles. Physical Review D 96, Art. No. 064010.	The editor for the Taylor and Francis Group has finished reviewing the book chapter they have written. Have recently submitted the revised manuscript and are now waiting for its publication.
10	Phytosterols on cellular senescence and senescence-associated inflammation	Velarde, Michael C.	UPD	CS	health-related researchers, students, academe	Balik-PhD	2	2016	2018	Ended	2,500,000.00	Marquez, C.M.D., Ibana, J.A. and Velarde, M.C. 2017. The female reproduction and senescence nexus. American Journal of Reproductive Immunology 77, Art. No. e12646. Marquez, C.M.D. and Velarde, M.C. 2017. Senescent cells as drivers of age-related diseases. Aging: Exploring a Complex Phenomenon, 305-334.	CO2 incubator along with N2 and CO2 tanks have been installed in the lab
11	Ecological processes on reefs exposed to different environmental conditions: influence on coral community structure	Cabaitan, Patrick Caranzo	UPD	CS	researchers, students, academe	Balik-PhD	2	2018	2020	Ongoing	2,500,000.00		

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12	Graphene and related two-dimensional materials for future nonelectronic device applications	Colambo, Ivy	UPLB	CAS	researchers, students, academe	Balik-PhD	2	2018	2020	Ongoing	2,500,000.00		
13	Low Molecular Urea-Based Molecules as Structurants for Hydrophobic and Hydrphilic Systems	Paderes, Monissa Cuebillas	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,500,000.00		
14	Co-occurrence and association of parasitic Amoebophyra (Syndiniales) with toxic dinoflagellates (Dinophyceae) in Philippine waters	Onda, Deo Florence	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,499,974.40		
15	Impacts of multiple stressors on hard and soft corals	Rodriguez, Maria Vanessa B.	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,500,000.00		
16	Tracking agricultural lifestyles and ecosystem change in the Philippines during the Holocene using rodent communities	Herrera, Michael	UPD	ASP	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,500,000.00		
17	Diversity, systematics, and molecular phylogeny of Philippine Dycyotales (Phaeophyceae, Ochrophyta)	Santiañez, Wilfred John	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,500,000.00		
18	Establishment of animal developmental biology laboratory for the assessment of the teratogenic and identification of teratogenic mechanism of different plant-derived products using histomolecular approach	Ipulan-Colet, Lerrie	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,499,999.80		
19	Guns for hire: functions of a minimal CRISPR-Cas variant in the mobility of a Tn7-like transposon in Vibrio	Dy, Ron Leonard V.	UPD	CS	researchers, students, academe	Balik-PhD	2	2019	2021	Ongoing	2,500,000.00		