



REPUBLICA DEL ECUADOR  
EMBAJADA DEL ECUADOR EN  
LA REPUBLICA POPULAR CHINA



Ministerio  
de Relaciones Exteriores  
y Movilidad Humana

Nota No. 4-7-165/ 2014

La Embajada del Ecuador en la República Popular China saluda muy atentamente a la Honorable Academia China de Ciencias (CAS) - Departamento de Cooperación Internacional - y como alcance a la nota No. 4-7-70/2014 del 10 de febrero de 2014, tiene el agrado de remitir junto a la presente el documento titulado "Perfiles requeridos por los institutos de investigación públicos" traducido al idioma inglés.

El mencionado documento es una guía general que tiene el propósito de identificar las áreas de investigación y la especialidad de los profesionales requeridos para el Programa Prometeo.

La Embajada del Ecuador mucho agradecerá se sirva difundir ampliamente el Programa entre sus asociados y, de ser posible, indicarnos el sitio web u otro método donde haya sido distribuida la información, para el debido seguimiento y apoyo.

La Embajada del Ecuador hace propicia la oportunidad para reiterar a la honorable Academia China de Ciencias (CAS) – Departamento de Cooperación Internacional, las seguridades de su más alta y distinguida consideración.

Beijing, 18 de marzo de 2014



A la honorable  
Academia China de Ciencias (CAS)  
Departamento de Cooperación Internacional  
Beijng.-



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照会号：4-7-165/ 2014

( 非正式译文 )

厄瓜多尔驻华大使馆向尊敬的中国科学院-国际合作局-美大处致以亲切问候！就 2014 年 2 月 10 日的 4-7-70/2014 号照会，谨此附上“公共研究机构需求合作领域简介”英文翻译版本。

此文件作为通用指南，指出了目前普罗米修斯项目目前优先需要的学者专业领域及科研合作领域。

厄瓜多尔使馆谨请贵方将项目相关信息广泛宣传，并指出宣传方式（网页、海报等），以便使馆做出相应的支持与跟进。

厄瓜多尔驻中华人民共和国大使馆再次向尊敬的中国科学院-国际合作局-美大处致以崇高敬意！

北京，2014 年 3 月 18 日



致尊敬的  
中国科学院  
国际合作局  
美大处  
北京.-

PROFILE REQUIRED BY GOVERNMENT RESEARCH INSTITUTES

INSTITUTION	PROMETEO PROFILE	SPECIFIC NEED	PROJECT NAME
<p>NATIONAL INSTITUTE OF AGRICULTURAL RESEARCH INDEPENDENT / EXPERIMENTAL STATION AUSTRO</p>	<p>Expert in searching, isolating, identifying and multiplying entomopathogenic microorganisms.</p>	<p>Search and multiply native entomopathogenic agents for controlling insects of economic importance in order to have alternatives to conventional insect control (chemical).</p>	<p>Integrated Pest Management in insect durum and white half starchy yellow corn.</p>
	<p>Expert in soil and plant nutrition with emphasis on fertilizer recommendations using the rational method</p>	<p>Develop knowledge - alternative technology to the conventional recommendation of soil fertilization, to manage and conserve this last resource in the best possible way.</p>	<p>Fertilizer alternative and conventional soil nutrition, using the rational method</p>
	<p>Expert in the use and development of molecular markers applied to plant species</p>	<p>Develop molecular markers to be used in breeding processes in native plant species of strategic importance for the region and country</p>	<p>Biotechnology applied to the genetic improvement of important plant species for the Ecuador's southern region.</p>
<p>INDEPENDENT NATIONAL INSTITUTE OF AGRICULTURAL RESEARCH / EXPERIMENTAL STATION SOUTH COAST</p>	<p>Expert in recombination of favorable genes through artificial hybridizations</p>	<p>Planning and execution of plans crosses, development of segregating populations, bio fortified homozygous lines obtaining, training of experimental hybrids</p>	<p>Varieties obtaining, of high production, tolerant to pests and diseases and good grain quality.</p>
	<p>PhD in irrigation, nutrition. Precision Agriculture</p>	<p>Irrigation, frequencies and watering systems for perennial fruit</p>	
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / Santa Catalina Experimental Station</p>	<p>PhD in improvement</p>	<p>assisted breeding with molecular markers</p>	
	<p>PhD In breeding for coarse grains</p>	<p>Breeding for specific resistance of specialized pathogens</p>	
	<p>PhD pasture plant breeding</p>	<p>Support for the generation of grass varieties for the highlands region</p>	

PhD. pasture plant breeding	Support for the generation of grass varieties for the coastal region and Amazon	
PhD. animal reproduction and production	Support for animal improving projects for Sierra region.	
PhD. animal reproduction and production	Support for animal improving projects for the coastal region and Amazon	
PhD. in nutrition and animal management	Support for nutrition and management projects for the Andes, Coast and the Amazon region	
PhD. In genetics and pathophysiology	Support for pea and broad bean improvement projects to solve problems caused by fungus and viruses.	
PhD., USA-gene disease resistance in corn. Research Professor of the Graduate College (Montecillo-Mexico) at the center of plant pathology and former researcher at the International Center for Maize and Wheat Improvement CIMMYT	Improvement and selection of germplasm with genetic resistance to diseases in corn	Generation of knowledge and technology for growing tender corn and its contribution to food security and sovereignty in the Ecuadorian sierra-PROJECT: PIC-12 INIAP-008-INIAP Convention: 20120322-539027
Genetic improvement and evaluation of forest genetic resources, Ø ecological genetics and domestication of native forest species.	Contribute to studies and methodologies for evaluating the conservation status and genetic variability of forest genetic resources, evaluation of sources, evaluation of growth models, design of integrated systems of prioritized species use, in wet and dry forests of the Andes, Amazon and Coast	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon.
Sustainable management of tropical forests and mountain	Spatial ecology of forests analysis, ecological economics, environmental valuation of forests, forest monitoring and analysis of permanent sampling plots, forest management and structural diversity.	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon.

Production of tropical forest species and timber technology.	Anatomical, morphological and dendrological analysis of tropical timber species value, timber technologies, methods of propagation of species, seed quality analysis.	Adaptation of forest bioclimatic species of rapid growth in Ecuador's environments and soils.
Evaluation of plagues and diseases in forest species	Diagnostic, evaluation and control measures and management of pests and diseases affecting forest plantations species.	Adaptation of forest bioclimatic species of rapid growth in Ecuador's environments and soils.
Statistics and experimental design in forest systems	Statistics and experimental design in agroforestry systems, forest economy, analysis of sustainability indicators.	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon region.
PhD. in agrobiodiversity specializing in cryopreservation of animal genetic resources	Germplasm conservation of plants and animals using cryopreservation techniques	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon region.
PhD. specializing in agro-biodiversity management, conservation and use of genetic resources	Establishment of a unit of animal genetic resources at INIAP.	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon
PhD. specialized in agro-biodiversity management, conservation and use of microorganisms.	Establishment of a resource unit of microorganisms at INIAP	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon
Specialist in entomology, identification and management forms for crops control.	Identification of nematode species the main crops in the highlands, ex. potato	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon
Specialist in bacteriology for insect control	Initiate pest control processes through the use of beneficial bacteria.	Conservation and Sustainable Use of Forest Genetic Resources in critical areas of wet and dry forests in the Andes and Amazon.
Expert in integrated disease management	Research disease problems of cocoa, coffee, oil palm and fruit.	Integrated Crop Management.
INDEPENDENT NATIONAL INSTITUTE OF AGRICULTURAL RESEARCH / THE AMAZON		

Expert in integrated pest management	Investigator on pest problems in cocoa, coffee, oil palm and fruit.	Integrated Crop Management
Expert in physiology of perennial plants.	Plant Physiology Researcher of cocoa, coffee, oil palm and fruit.	Integrated Crop Management
Nutrition expert of perennial plants	Researcher in soils and fertility, precision farming and organic.	Integrated Crop Management
Expert in Forest Management	Researcher of forest seed sources.	Agroforestry and forest management
Agroforestry Expert	Researcher in Planning and evaluation of agroforestry systems.	Agroforestry and forest management
Expert on climate change	Researcher in climate change and geographical information systems.	Agroforestry and forest management
Expert in environmental economics	Researcher in environmental economics.	Socioeconomic
Expert in agricultural economics	Economic analysis and impact of agricultural technologies, value chains, agricultural business.	Socioeconomic
Expert in Food Chemistry	Researcher Food Chemistry	Agroindustry
Expert on alternative energy	Researcher in Alternative Energy	Alternative Energy
Expert on Trimorphism (plant, soil, environment), Physical Chemistry and Molecular Biology.	Responses of Physiological problems of biological transformations in agricultural production processes.	Institutional Strengthening
Expert in Animal Nutrition Pastures and Forages, Microbiology and Animal genetics.	Design of sustainable systems for production of dual-purpose bovine herd in the tropics.	Institutional Strengthening
expert on Improvement plants short cycle and perennial .	Proper use of plant genetic resources for the release of highly productive material linked to environmental factors.	Institutional Strengthening
Pest and diseases expert.	Strengthen the biological component agro-productive systems by finding varietal resistance and biological control agents.	Institutional Strengthening
Expert in Rural Development and Technology Transfer	Strengthen productive chains through linking and training of local actors in agricultural development.	Institutional Strengthening

INDEPENDENT NATIONAL  
AGRICULTURAL  
RESEARCH INSTITUTE /  
Pichilingue

<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / PORTOVIEJO (INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / PORTOVIEJO)</p>	<p>Expert on Economic Thresholds, Econometrics, Agricultural Planning and Policy.</p>	<p>Determine the access from the technologies to the markets through coordinated planning between the various actors from the production chains and research centers.</p>	<p>Institutional Strengthening</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / PORTOVIEJO</p>	<p>Expert in viral vectors</p>	<p>Identification of alternate host species of cucurbit virus vectors.</p>	<p>Viruses in cucurbits and its management in the Ecuadorian Coast</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / PORTOVIEJO</p>	<p>Biofuels expert</p>	<p>Management and value added products from the extraction of oil and castor pinion.</p>	<p>biocombustibles, Research plan for agrobusiness, energy and nutrition, biofuels.</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / SANTO DOMINGO</p>	<p>Breeding expert with experience in the cultivation of oil palm, who has worked in an international research center in that culture.</p>	<p>Breeding expert with experience in the cultivation of oil palm.</p>	<p>Characterization and evaluation of germplasm oil palm ESDC.</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / SANTO DOMINGO</p>	<p>Plant Protection Expert with experience in tropical crops, especially palm.</p>	<p>Expertise in plant protection, integrated crop management.</p>	<p>Integrated management in the cultivation of oil palm.</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / SANTO DOMINGO</p>	<p>Agroforestry expert with experience in rubber cultivation, who has worked in an international research center in that culture.</p>	<p>Agroforestry expert with experience in rubber cultivation</p>	<p>Establishment of agroforestry models in SAF's (Agroforestry Systems) with natural rubber.</p>
<p>INDEPENDENT NATIONAL AGRICULTURAL RESEARCH INSTITUTE / SANTO DOMINGO</p>	<p>Plant Protection Expert with experience in rubber cultivation.</p>	<p>Expertise in plant protection, integrated management of rubber cultivation</p>	<p>Integrated management of pests and diseases in rubber cultivation.</p>

<p>(NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY – GUAYAQUIL)</p>	<ul style="list-style-type: none"> <li>* Epidemiology-weather.</li> <li>* In-Climatology</li> <li>* Agro climatology.</li> <li>* Hydrology - Hydrogeology.</li> <li>* Oceanography.</li> <li>* Multivariate Statistics.</li> <li>* Environmental and / or atmospheric sciences.</li> </ul>	<p>Agroclimatic crop * Impact on food security in the Guayas basin modeling.</p> <ul style="list-style-type: none"> <li>* Analysis and modeling of hydrological forecasting purposes in the basin of the Guayas.</li> <li>* Research studies dendroclimatology for past climates.</li> <li>* Impact of climate on vector diseases, respiratory and cardiovascular transmission.</li> <li>* Applied research in underground, sedimentology and hydrochemistry waters.</li> <li>* Retrospective Analysis and Comparison urge climatic and oceanic variables for the construction of an index of child events • The Southern Oscillation (ENSO). "</li> </ul>	
<p>INER (National Institute for Energy Efficiency and Renewable Energy)</p>	<p>Geothermal PhD; Experience in low and medium enthalpy</p> <p>PhD in biomass for energy uses; Experience in use of plants and municipal waste</p> <p>PhD in Energy Efficiency in Transportation; Experience in studies to improve efficiency in land transport</p> <p>PhD in Energy Efficiency in Industry; Experience in thermal and electrical energy uses</p>	<p>To investigate and quantify the resource potential areas.</p> <p>To investigate different laboratory waste and prioritizing the best from the energy point of view.</p> <p>To analyze and mathematically model the supplement information to suggest options for more efficient vehicles, routes, etc...</p> <p>To investigate the patterns of use of secondary energy, through signs, in sectors that are prioritized.</p>	<p>Geothermal resources map of Ecuador</p> <p>Energy characterization of biomass waste from Ecuador</p> <p>Research priorities to reduce fuel consumption in freight</p> <p>Determination of energy efficiency indicators for industry Transversal to all projects</p>



	PhD in Technological Innovation in areas of scientific research methodologies Innovation, Technology Patents	Promote technological innovation in the present and future projects of INER.	Determination of energy efficiency indicators for industry Transversal to all projects
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