



## FACULTY OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Call for Applications

# Specialists and Researchers (PhD and Master)

**Organisation :** Université Quisqueya (UniQ)

**Department :** Faculty of Agricultural and Environmental Sciences (FSAE)

**Number of job positions : 8** (4 PostDocs with PhD and 4 research specialist with a MSc)

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### Specialists and Researchers (PhD and Master)

**Organisation :** Université Quisqueya (UniQ)

**Department :** Faculty of Agricultural and Environmental Sciences (FSAE)

**Number of job positions :** 10 (4 PostDocs with PhD and 6 research specialist with a MSc)

| 3 post doctoral position (PhD level)                | 4 Research specialists (with MSc or Master degree); Including the option to do a PhD |
|---|--|
| High protein crops breeding and agronomy specialist | High protein crops breeding and agronomy specialist                                  |
|   | Mechanization specialist   |
| Animal Nutrition                                    | Animal Nutrition   |
| Entrepreneurship                                    | Entrepreneurship   |
|   | Plant pathology  |
|   | Biotechnology and micropropagation   |

**Location:** Campus of Quisqueya University, 128 avenue Jean-Paul 2, Haut de Turgeau, Port-au-Prince (Haiti), with frequent trips to the field

**Source of funding:** Various projects

## **Presentation of the University**

Quisqueya University (UniQ) is a non-profit private higher education institution recognized as being of public utility. It was founded in 1988 and started its activities in October 1990. It is composed of six faculties and totals 16 bachelor's programs, 5 short cycle programs, 5 master's programs and a doctoral school (PhD). Motivated by one of the aspects of its mission, scientific research, UniQ, through its Faculty of Agricultural and Environmental Sciences (FSAE), in association with the Chibas Foundation, has been carrying out for several years a new agricultural research dynamic in Haiti. This research dynamic is increasingly recognized by various national and international organizations and entities, including the Haitian State, in particular. As a result, several research projects to which the FSAE has applied have been granted to it for execution.

Among these research projects, there are some that are financed by the Inter-American Development Bank (IDB) via the Ministry of Agriculture, Natural Resources and Rural Development (MARNDR), carried out in partnership with CIRAD (France) , CIAT (Colombia), CIP (USA), Cornell University (USA), Laval University (Canada), etc. Within the framework of these projects, one of the objectives is to complete the staff of researchers (senior and junior).

The aim of this call for applications is to recruit 8 researchers and specialists in the 4 fields indicated (regardless of the country) to complement, but above all strengthen the current research team.

For further information: [decanat.fsae@uniq.edu](mailto:decanat.fsae@uniq.edu)

## **(1) High protein crops breeding and agronomy specialist, (post doctoral and research specialist positions open)**

**Time:** Full-time

**Responsibilities:** Day to day management of the high protein crops (peanuts, pigeonpea, and edible Jatropha) breeding and research on best practices to maximize production

- Co-Lead UniQ crop improvement program
- Develop varieties
- Provide scientific leadership and creativity in designing and executing the breeding and agronomy program
- Use the appropriate data, pedigree, and computer software to manage the breeding program, design trials and analyze results
- Summarize and interpret the data of the experiments conducted
- Develop a close collaboration with our public and private sector partners
- Produce scientific publications, reports, and presentations as required
- Organize and supervise the work of research support staff
- Develop new fundable research projects to keep the Chair sustainable.

**Qualifications:** with training in plant breeding as well as in agronomy or crop physiology, PhD

- PhD or MSc in crop genetics, physiology and/or plant breeding, ideally with legume or high protein research experience
- Demonstrated experience in agricultural research, in particular with a commitment to conducting research to benefit smallholder farmers
- Experience in a breeding program and in managing agronomic and performance trials
- Experience in running a field-based research program to gain precise and reliable phenotypic data, with a demonstrated capacity for implementing participatory breeding projects
- Experience with variety development and release as well as quality seed production and dissemination

- Statistical skills, knowledge of computer applications and software for data collection, management and analysis
- Demonstrated ability to work collaboratively in diverse partnerships with a wide range of stakeholders, and interest in working on an interdisciplinary research team
- Good track record in project reporting, proposal development, and publication;
- Willingness to travel extensively in Haiti
- Fluency in French with excellent written/oral communication and presentation skills; working knowledge of Haitian Creole or English is highly desirable

**Quisqueya University (UniQ)** is a private non-for-profit Haitian higher education institution located in Port-au-Prince, which was founded in 1988, and is regarded as Haiti's leading private university. UniQ trains new Haitian professionals at the B.Sc. and M.Sc. levels, leaders in the areas of Agriculture and Environment, Management and Economics, Engineering and Architecture, Law and Political Science, Education, and Health Sciences.

This position will be part of a multidisciplinary team that is involved in the development, testing and dissemination of tools, technologies and methods that will allow Haiti's agriculture and agro-industrials sectors to grow in the coming years.

UniQ has ongoing projects with CIRAD (France), INTA (Costa Rica), Cornell University (USA), Colorado State University (USA), and Laval University (Canada). We are also a center of innovation of the Innovation Lab for Crop Improvement (USAID-ILCI).

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## **(2) Mechanization specialist, (post doctoral and research specialist positions open)**

**Time: Full-time**

### **Responsibilities:**

- Find, evaluate, and improve scale-appropriate agricultural machinery in crop establishment, crop protection, harvest and farm transport
- Aid in the development of training materials and modules for service providers and other stakeholders that offers guidance on machinery repair and maintenance, proper use, better-bet mechanized agronomic practices
- Aid in planning and reporting and implementation of overview studies that identify and highlight constraints experienced by service providers and the agro-machinery industry and identify and recommend potential solutions
- Aid and strengthen relationships and partnerships with public and private sector partners
- Aid in the dissemination of research findings through various reports and but also conferences, workshops and publications
- Assist in monitoring and evaluation and statistical analysis and reporting efforts by providing quality input and reports in a timely manner (every 2-3 months as indicated by the Project Leader)
- Follow best practices in data collection, and in organizing, managing, storing, and archiving data
- Ensure that clean, good quality, clearly labeled data sets and information (docs, photos, videos, etc.) are sent or made available in electronic form every month to the project leader

### **Qualifications:**

- PhD or Master's Degree in Agricultural Machinery Engineering, Mechanical Engineering, Agricultural Engineering, Agriculture Development or a related field is required.
- Expertise with agricultural machinery
- Experience on a farm in managing implements and equipment (minimum of one full year)
- Practical working knowledge of conservation agriculture is desirable

- Working knowledge of various production, crop protection, irrigation, harvesting equipment
- Demonstrated experience in agricultural engineering
- Excellent facilitation, communication, and team-building skills
- Good understanding of scale-appropriate machinery, and demonstrated ability to find innovative solutions to problems encountered in the field
- Experience developing training materials and conducting trainings, field demonstrations, etc.
- Excellent interpersonal and communication skills,
- French or Creole required, English is a plus

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### **(3) Animal Nutrition, (post doctoral and research specialist positions open)**

**Time:** Full-time

**Responsibilities:** Day to day management of the animal nutrition program at UniQ;

- Co-Lead UniQ animal nutrition program
- Participate in the design of solutions for the development of livestock farming in agro silvo-pastoral and / or agro-ecological systems, with respect of the environment and / or of integration of plant production / animal production; Contribute to the development and testing of mixed agriculture (crop and livestock production) systems.
- Develop solutions along with the crop scientists for animal nutrition; production, enhancement and conservation of fodder plants, development of concentrated foods from local products, enhancement of agricultural and agro-industry by-products.
- Provide scientific leadership and creativity in designing and executing the animal nutrition program
- Use the appropriate data, and computer software to manage the animal nutrition program, design trials (controlled and participatory) and analyze results
- Summarize and interpret the data of the experiments conducted
- Develop a close collaboration with our public and private sector partners
- Produce scientific publications, reports, and presentations as required
- Organize and supervise the work of research support staff
- Develop or participate in elaboration of new fundable research projects.

**Qualifications:** with training in animal nutrition, PhD

- PhD or MSc in animal nutrition with research experience in conducting feeding trials (under controlled conditions or participatory trials)
- Demonstrated experience in agricultural research, in particular with a commitment to conducting research to benefit smallholder farmers
- Experience in animal nutrition in conducting feeding and performance trials
- Experience with feed (processed) and/or animal ration development and testing



- Statistical skills, knowledge of computer applications and software for data collection, management and analysis
- Demonstrated ability to work collaboratively in diverse partnerships with a wide range of stakeholders, and interest in working on an interdisciplinary research team
- Good track record in project reporting, proposal development, and publication;
- Willingness to travel extensively in Haiti
- Fluency in French with excellent written/oral communication and presentation skills; working knowledge of Haitian Creole or English is highly desirable

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#### **(4) Entrepreneurship (post doctoral and research specialist positions open)**

**Time:** Full-time

**Responsibilities:** Day to day management of the Entrepreneurship Chair and its academic but scientific activities

- Co-Lead UniQ Entrepreneurship Chair
- Develop Business Models
- Provide scientific leadership and creativity in designing and testing new business models in different agribusinesses
- Develop courses, trainings and innovative tools to coach entrepreneurs and business creators, both students and farmers
- Collect data and develop database in support of research and best practices
- Develop a close collaboration with our public and private sector partners
- Produce scientific publications, reports, and presentations as required
- Organize and supervise the work of research support staff
- Develop new fundable research projects to keep the Chair sustainable.

**Qualifications:** PhD or Master degree, with training in entrepreneurship and agribusiness

- PhD or Master degree in entrepreneurship, management, agribusiness, food production
- Demonstrated experience in agricultural research, in particular with a commitment to conducting research to benefit smallholder farmers and agro entrepreneurs
- Experience in a coaching and mentoring entrepreneurs
- Experience in designing and running survey and field-based research program
- Experience with different types of agricultural innovative business
- Modelization, statistical and econometric skills; knowledge of computer applications and software for data collection, management and analysis
- Demonstrated ability to work collaboratively in diverse partnerships with a wide range of stakeholders, and interest in working on an interdisciplinary research team
- Good track record in project reporting, proposal development, and publication;
- Willingness to travel extensively in Haiti



- Fluency in French with excellent written/oral communication and presentation skills; working knowledge of Haitian Creole or English is highly desirable

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