

HICD STRATEGY

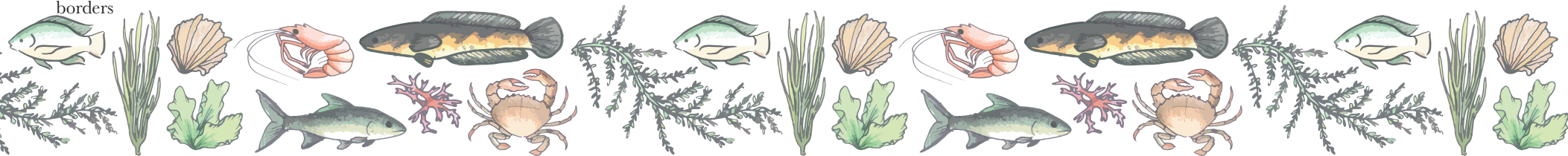
The AquaFish Innovation Lab leads research and capacity-building efforts to reduce poverty and hunger in developing nations by advancing sustainable aquaculture development and responsible aquatic resource management. AquaFish is in alignment with the US Government's Feed the Future Initiative, and is funded by the United States Agency for International Development and institutions in the US and participating Host Countries.

While cultivation of aquatic plants and animals are critical to attaining global food security, people ultimately determine the success of aquaculture endeavors. Human and institutional capacity building (HICD) underpins the AquaFish research mission, and AquaFish continues to develop not only best management practices but also aquaculturalists able to execute and further improve those practices. Using an already extensive network of aquaculture researchers, professionals, and managers, AquaFish is working to empower the next generation of aquaculturalists. These HICD efforts are critical to AquaFish's mission of alleviating poverty and food insecurity through increasing the sustainability of aquaculture and fisheries in the Host Countries in which it works.



These HICD efforts take three main forms:

1. **Short-term** trainings, such as one- or two-day workshops on specific topics
2. **Long-term** trainings, such as supporting higher education opportunities and funding research for students
3. Building **institutional capacity, curriculum development, and linkages** across institutions and borders



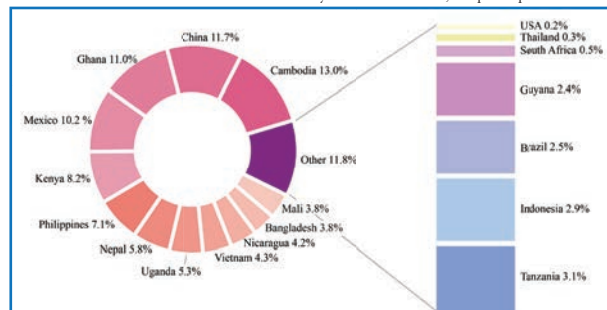
INVESTING IN PEOPLE

SHORT-TERM TRAININGS

Short-term trainings can last one day to six months and include short courses, seminars, workshops, internships, and study tours. These allow participants of all levels and backgrounds to learn about the latest aquaculture research to improve their practices and build professional networks. Topics covered range from business management and product development to polyculture practices and local feed substitutes.

Short-Term Training from 2006-2015

Percent of trainees in each country out of a total of 9,261 participants

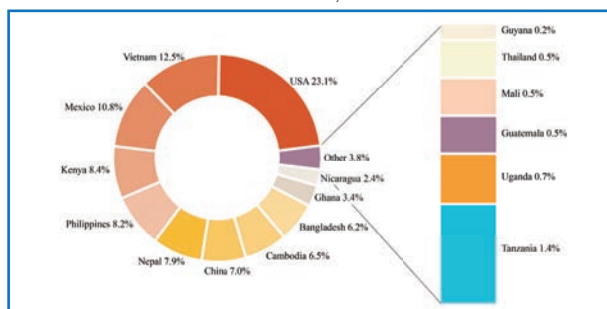


LONG-TERM TRAININGS

Long-term trainings last six months or longer and typically culminate with the award of a degree or diploma. Bachelors and Masters degrees, PhDs, post-doctoral studies, trade certificates, and high school diplomas all fall into the AquaFish's long-term training HICD work. These trainings take place in Host Countries, the US, and third-country institutions.

Long-Term Training from 2006-2015

Percent of trainees in each country out of a total of 584 students



STRENGTHENING INSTITUTIONS

In addition to supporting research and aspiring aquaculture professionals and students at universities and other research institutions around the world, AquaFish also works to strengthen the institutions themselves. This includes supporting the creation of new research and academic programs as well as helping programs grow.

At Ghana's Kwame Nkrumah University of Science and Technology, AquaFish supported the development of eight additional aquaculture courses between 2007 and 2013 and contributed to the development of a new BSc degree in Fisheries and Water Resources Management that admitted its first students in 2013. In addition to curriculum development, AquaFish Host Country colleagues and institutions build institutional capacity through the management of international grants and contracts. Thanks to collaboration with AquaFish, the Research Office at Bangladesh Agricultural University now has a mechanism to promote and administer multi-institutional collaborations within Bangladesh, a feature critical to the country's future development.

AquaFish's work with universities and other institutions includes encouraging adoption of new communication technologies, such as online bulletin boards, distance learning courses, podcasts, and other virtual communities of practice that link researchers, policy makers, and development practitioners working on similar issues.



Through this work, AquaFish has created an impressive network that links 30 countries and more than 300 participants, working in all aspects of aquaculture, from academia to government to industry.

LASTING EFFORTS

Aquaculture and fisheries are integral components of the health, income, and livelihoods of many coastal and inland communities. In the face of population growth, there is a rising demand for food fish and continued pressure on already exploited capture fisheries. A crucial step toward developing sustainable aquaculture and fisheries is strengthening the human resources of private, academic, and government institutions by creating a sound knowledge base that informs good governance and codes of practice.



AquaFish HICD efforts benefit stakeholders in Host Countries, the US, and regionally through the transfer of knowledge and technology. Short- and long-term trainings provide opportunities for young scientists and farmers to increase their knowledge base, make connections, and strengthen professional networks. These participants constitute a pipeline of educated professionals who are positioned to move on to careers in government, academia, and private enterprise. In addition, expanding curricula and degree choices increase capacity for institutions to recruit and admit more students, improve facilities, and help establish these institutions as leaders in higher education and research.



AQUAFISH PROJECT COUNTRIES SINCE 2006



The AquaFish mission is to enrich livelihoods and promote health by cultivating international multidisciplinary partnerships that advance science, research, education, and outreach in aquaculture and fisheries.

DEVELOPING HUMAN AND INSTITUTIONAL CAPACITY IN AQUACULTURE



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July 2016

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