



PARTNERING WITH INDONESIA,
SOARING TO NEW HEIGHTS

UC DAVIS
UNIVERSITY OF CALIFORNIA

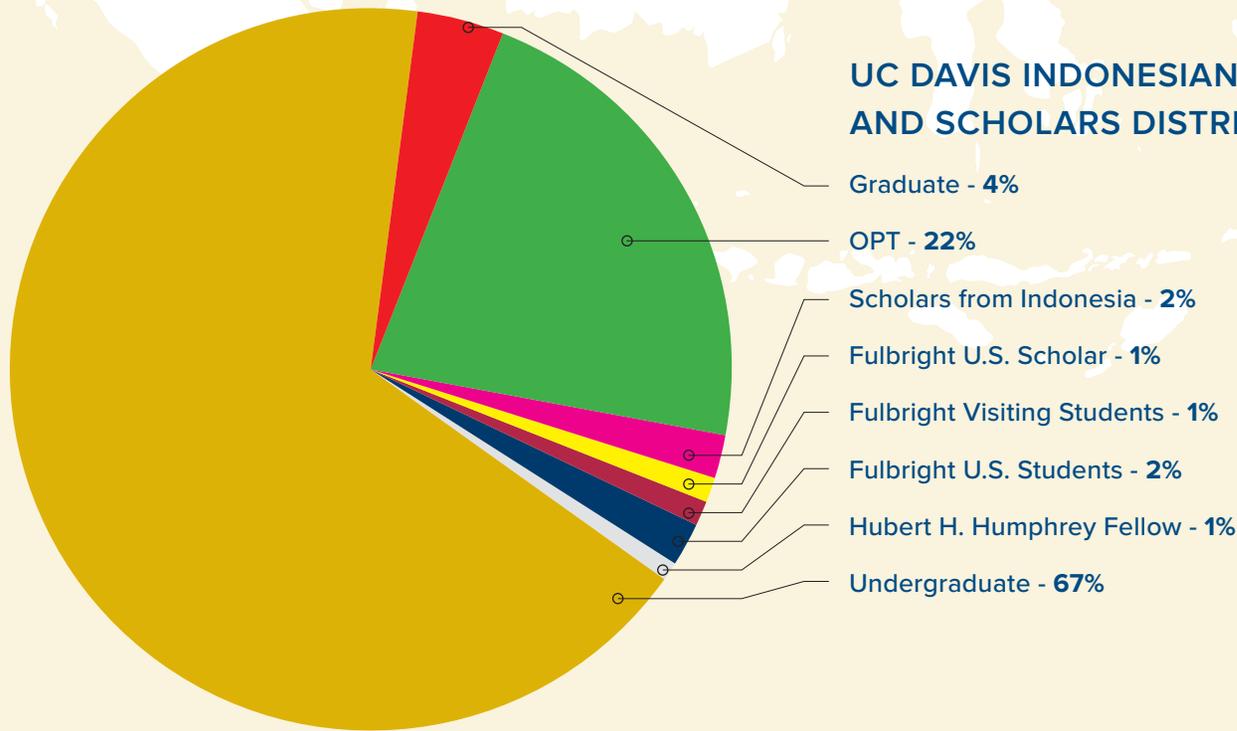
UC DAVIS AND INDONESIA

UC Davis has a proud history of partnering with universities and government organizations in Indonesia. Our students and scholars have worked with Indonesian colleagues to advance projects that address poverty, nutrition, public health, and biodiversity, and we welcome Indonesian

students and scholars to study and research at our California campus.

Together, we have made new scientific breakthroughs, benefited from rich cultural and intellectual exchanges, and helped to prepare the next generation of leaders with world-class teaching and training.

UC Davis is committed to strengthening our dynamic and fruitful partnerships in Indonesia and across Asia. As our university expands its presence in the region, we look forward to continuing our work with partners in order to increase knowledge, exchange ideas, and positively impact society worldwide.



BIODIVERSITY IN SULAWESI

From 2009 to 2013, the Indonesian Institute of Sciences and other government departments collaborated with UC Davis and others on a biodiversity discovery project in Sulawesi.

In addition to documenting the precious biodiversity of the Sulawesi region, the project supported:

- Interdisciplinary research teams in their search for new species
- Scholarship related to conservation and sustainability
- The identification of compounds with the potential for therapeutic use
- The identification of substances that could be used to create biofuel

Another key component of the project was to increase cooperation between Indonesian and American scientists. Today, though the formal research effort is complete, our partnership in Sulawesi continues. UC Davis maintains strong working relationships with Indonesian scientists from many institutions. This robust joint effort has been a pathway for numerous local scientists to advance their careers, especially through collaborative publications. Many students, technicians, and postdoctoral scholars have also received valuable training through their work with these experts.

UC Davis and Indonesian scientists working in Sulawesi have discovered new species across all taxonomic groups, from microbes and invertebrates to higher vertebrates and plants. Thanks to their findings, a new national park area has been proposed.





IMPROVING SEAFOOD SUSTAINABILITY

Global fish consumption has hit a record high, and Indonesia is one of the world's biggest suppliers. To help fisheries keep up with demand while preserving healthy ecosystems, UC Davis scholars are supporting research, policies, and practices in Indonesia that will help ensure a productive, sustainable seafood supply chain. In particular, UC Davis experts are encouraging best practices that increase fish stocks while protecting natural ecosystems, as well as working to demystify sustainable seafood certification for consumers.

Collaboration between UC Davis and Indonesian scientists has led to notable discoveries:

- A 2015 study by UC Davis and Hasanuddin University revealed that about 25 percent of the fish sampled in Indonesia contained plastic fragments. The findings offered crucial data with the potential to guide local waste management measures as well as fishing practices
- Marine scientists from UC Davis and Hasanuddin University have also collaborated on projects to rehabilitate corals and seagrass in the waters off of Sulawesi



Researchers from UC Davis and Hasanuddin University study seagrass in 2013



MATERNAL AND CHILD HEALTH

Long-term research conducted by an international group of scholars has benefited thousands of women and children in Indonesia. UC Davis and the University of Indonesia collaborated with other researchers to address maternal nutrient deficiency during pregnancy through their Supplementation

with Multiple Micronutrients Intervention Trials (SUMMIT).

They discovered that when mothers took micronutrients, the supplements helped improve child birthweight and cognitive development as well as maternal cognition. In fact, the effect of taking micronutrient

supplements was equivalent to one year of education for all mothers, two years of education for anemic mothers, and three years of education for undernourished mothers. These results have advanced public health measures in Indonesia and provide important insights into local as well as global health policies.



ENGINEERS WITHOUT BORDERS

The UC Davis chapter of Engineers Without Borders is a nonprofit student organization, established to help developing areas worldwide with their engineering needs while training globally minded engineering students.

The chapter's Indonesia Project, started in 2016, is developing an alternative water distribution system to give the community of Dusun Sogra in Bali reliable access to clean water during the dry season.

Leveraging UC Davis' rich interdisciplinary collaboration and culture of public service, our students are working with local communities to design enduring, sustainable solutions to the engineering challenges they face.

PREVENTING PANDEMICS

The U.S. Agency for International Development's PREDICT project aims to prevent, detect, and rapidly respond to diseases that spread from wildlife to humans, such as SARS and bird flu. UC Davis leads PREDICT's collaborative work in Indonesia. An international coalition of experts is working with Indonesian scientific and government institutions to establish an early warning system for potential disease outbreaks, and to investigate the behaviors, practices, and ecological factors that cause diseases to spread.

The project's work in Indonesia includes:

- Conducting wildlife monitoring
- Collecting animal samples in areas where human-animal interaction is common
- Providing biosafety training to professional field workers, government employees, research scientists, veterinarians, biologists, laboratory technicians, rangers, and others who regularly work with wild animals
- Contributing to the establishment of the first wildlife pathogen surveillance system in Indonesia
- Sharing protocols with and providing training and supplies to the Primate Research Center at Bogor Agricultural University and Eijkman Institute laboratories, improving their capacity to diagnose zoonotic viruses



PRIVATE SUPPORT

Your support will help the partnership between UC Davis and Indonesia soar to new heights. We invite you to join us in expanding our projects in Indonesia and beyond.

For more information on private support, please contact Marina Tan Harper at mtharper@ucdavis.edu or +1 (530) 754-2021.

