



engineers
without borders
australia



Cambodia Humanitarian Design Summit

Information Pack



engineers
without borders
australia

Cambodia Humanitarian Design Summit

Community development, appropriate technology and humanitarian engineering.

Engineers Without Borders Australia (EWB) is a member-based not-for profit organisation with over 10 years experience in creating change through humanitarian design, engineering and international development initiatives.

We do this by:

- Working in partnership to address a lack of access to basic human needs such as clean water, sanitation and hygiene, energy, basic infrastructure, waste systems, information communication technology, and engineering education.
- Educating and training Australian students, professionals and the wider community on issues including sustainable development, appropriate technology, poverty, and the power of humanitarian engineering.
- Leading a movement of like-minded people with strong values and a passion for humanitarian engineering within Australia and overseas.

Our Mission Statement

We connect, educate and empower people through humanitarian engineering.

Our Vision Statement

Everyone has access to the engineering knowledge and resources required to lead a life of opportunity, free from poverty.

*Front Page: EWB's Andy Henson, Shreya Rajesh, Sophie Tan and Hanna Truong in the process of designing their rechargeable battery powered lamps for children without access to electricity.
Photo: Dan Avarð*



**engineers
without borders
australia**

"After participating in the Design Summit, it has really broadened my understanding of the concepts of appropriate technology and humanitarian engineering. Returning to uni, I feel more motivated to learn as I have a greater understanding of how the knowledge I learn in class can be used to help others and improve the communities around us."

- Student Participant, Cambodia 2015

What is the Humanitarian Design Summit?

Participants will travel to Cambodia for two weeks, meeting with developing communities to learn about community development, appropriate technology and human centred design.

Cambodia.

- June 25th - July 8th 2016
- July 11th - July 24th 2016

**Please note that the dates are subject to minor alteration dependent on community availability

The Design Summit provides an opportunity for students to develop a deeper understanding of the role engineering and technology play in creating positive change within communities.

Participants will also build an understanding of effective development goals such as participation, empowerment and capacity building.

Over the course of the Summit students will undertake a team design project in conjunction with our Cambodian community partners.

The project aims to challenge students to apply the skills and knowledge they have learned whilst studying at university within a Cambodian community context. This is a hands-on opportunity for students to learn about the design process and develop their humanitarian engineering skills.

In preparation for the community visits students will attend workshops run by EWB staff and local community leaders in Cambodia.

Students are encouraged and supported to share their experiences and create change within their sphere of influence upon returning from the study tour.

The Summit will provide professional design and engineering work experience, and provide participants with work, community development and design skills. The program has been specifically designed to contribute to your university's professional work experience requirements.



2015 Humanitarian Design Summit
Team Giant Ibis: Cambodian Rural Development Team (CRDT): Wat Village (Cambodia)
Photo: Dan Avard



engineers
without borders
australia

Program Aims and Learning Outcomes



To nurture future development leaders



To embed people-centred values and approaches in engineering, design and technology education



To promote the professional development of community partner staff



To practice and promote two-way knowledge sharing



To support community partners by generating ideas for their projects

The Summit is designed to provide participants with first-hand experience working in culturally different and high-pressure situations.

Participants will develop their empathy and cultural sensitivity through genuine interactions with our community partners. Over the course of the Summit, participants will work closely with our community partner staff and develop cross-cultural communication skills such as active listening and the use of interpreters. These interactions also provide local staff with the opportunity to practice their English and gain experience articulating their needs and receiving and implementing feedback surrounding the design process. The Summit is structured to promote teamwork and foster leadership qualities such as team management, team motivation and group representation.

Over the course of the Summit participants will gain an improved understanding of the role of technology in society. Emphasis is placed on the design process with respect to environmental, economic, and social impacts in a humanitarian context. Participants will be exposed to a variety of community development models and learn about the role of local engineers and organisations as well as ethical decision-making. The Summit will focus on incorporating local knowledge in design, appropriate technology, and how to implement solutions that best serve stakeholder needs and priorities.



Community Development Workshops
Photo: Dan Avard



engineers
without borders
australia

Program Workshops and Cultural Experiences

The program includes a series of educational workshops run by EWB staff and local community leaders. The workshops will prepare students for their community visits and design project so that they may get the most out of their experience.

Introduction to Development

International development and community engagement can be a complex process. This engaging workshop connects design, skills and processes.

Cambodian Culture and Language

This workshop provides students with an introduction to the Khmer language and culture.

Working in Communities

In preparation for the design program, participants will learn about effective human-centered design methodologies, working with translators and the skills needed to engage effectively in the field.

Appropriate Technology

This workshop aims to explore many of the different lenses that appropriate technology requires us to look through such as financial, social inclusion and environmental constraints.

Speakers will share case studies to explain their own experience of the process in developing appropriate technology for different contexts, such as communities with limited resources.

Cambodian Cultural Experiences

Students will visit the following historic cultural sites to gain a greater understanding of the Cambodian cultural context.

- The Royal Palace
- Tuol Sleng Genocide Museum
- The Killing Fields



Team Royal Turtle in their mangrove conservation community in Kampot, Cambodia.
Photo: Dan Avar



Team Giant Ibis community visits: Wat Village
Photo: Dan Avar



engineers
without borders
australia

"This trip has added more meaning to the units I'm learning this year – whether it's in thermodynamics or finance. I hope to learn more from these units so that I can use it in the future to help more developing communities."

- Student Participant, Cambodia 2015

Program Details

Cambodia Humanitarian Design Summit Schedule

Day 1	Arrival in Phnom Penh
Day 2	Introduction to Cambodia and Development
Day 3	
Day 4	Cultural Experiences – Phnom Penh
Day 5	Workshops and Community Visit Preparation
Day 6	Community Partner Visits
Day 7	
Day 8	
Day 9	
Day 10	
Day 11	Team Design Challenge
Day 12	Team Design Challenge
Day 13	Team Design Challenge
Day 14	Project Presentations

*Guide subject to minor change



Program Cost

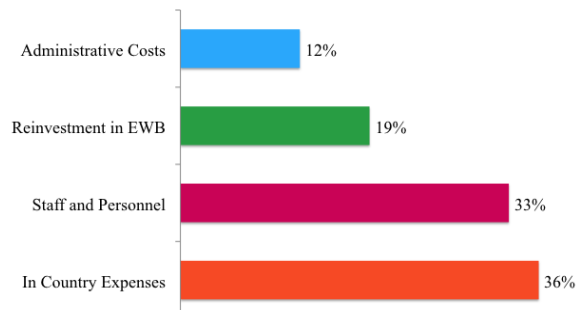
\$3,500

\$500 deposit will be required to confirm your place on this trip that is included in the program cost.

Cost Breakdown

81% of your participation fee goes directly toward program expenses. These include: in-country logistics, a professional team of facilitators, community partner liaison, and administrative activities such as risk management and curriculum development.

The remaining 19% of fees are reinvested back into EWB's wider work. Areas of reinvestment may include works such as the International Volunteer Program and the EWB Research Program.





engineers without borders australia

Travel Style

- Shared twin rooms
- Private minibus, tuk tuks

EWB to provide

- Accommodation
- All meals
- Travel insurance
- Access to project sites and communities
- Cultural activities and language lessons
- Administration costs
- Course, content development and facilitation
- Transport - high quality to comply with program risk assessments
- Program risk and safety development and implementation - including subscriptions to leading travel alert advisories
- Emergency and Evacuation Plan development and monitoring
- Professional Facilitators - drawn to include Australian Professional Engineers, allowing students to count the program towards professional engineering work experience requirements
- Community Partners and Translators - we ensure that all communities are appropriately remunerated for our time in country. Our organisation aims to positively impact the communities that we work with, and it's important that our program is not a burden on small local groups.
- University program collaboration - working in partnership with universities around Australia to make this opportunity widely available and with mechanisms to support attendance.
- International Finance Systems (incorporating Anti-Fraud and Corruption controls)

Not included

- International fares to and from Phnom Penh
- Passport and Visa application costs
- Medical Costs/ Vaccinations
- Personal expenses

Engineers Without Borders Australia is a not-for-profit organisation and any remaining funds will be used to support EWB's wider work in humanitarian engineering.



Team Giant Ibis: Wat Village
Photo: Dan Avard



Participants from 2015 December
Humanitarian Design Summit: Olympic
Stadium Phnom Penh.
Photo: Dan Avard



Health and Safety

The health and safety of all Summit participants is paramount. EWB has comprehensive safety and security management procedures in place to ensure that risks to participants are minimised, as well as an effective security plan should an emergency arise.

A complete security risk assessment is performed on all project and location sites prior to departure. Relevant country intelligence systems are monitored throughout. Based on this information, a customised action plan – complete with emergency response procedures and evacuation plans – is developed and regularly reviewed and updated.

Travel insurance is essential for all Summit participants. All participants will participate in a teleconferenced safety briefing prior to departure as well as receive on-site security training through workshops once they arrive in country. An incident register is kept and reviewed by in-field staff so that proactive action may be taken if required.

Participants Receive

- Pre-departure documents concerning travel and safety issues
- Complete safety briefing prior to departure
- Airport pick-up and local orientation
- Full on-site security training
- All accommodation arrangements

Responsible Travel

EWB acts with integrity, upholding our values of community, sustainability, respect, learning and quality in all that we do. Our approach to travel aligns with these values and our development philosophy.

EWB is committed to responsible travel that respects local people, their culture, local economies and the environment.

Our Travel Philosophy

- Respecting our community partners, the communities we visit and the different cultures we work with by seeking local advice before visiting a community and educating all participants about local culture and etiquette
- Choosing small-scale locally owned restaurants and accommodation where available, ensuring expenditure assists the local economies we visit
- Ensuring that our visits contribute to the local organisations and villages that host us and do not deplete their resources

EWB's responsible travel philosophy is part of our bigger objective to operate without compromising the needs of future generations. In all our travel and operations we strive to assess our environmental footprint, be transparent in reporting and implementing reductions in our carbon emissions.



engineers
without borders
australia

Next Steps:

Apply online www.ewb.org.au/designsummit.
Participants must be over 18 at the time of the program.

Applications Close March 27th 2016

For more information, please contact:



Joli Price
Training Program Coordinator

Engineers Without Borders Australia

T / +61 3 9329 1166
j.price@ewb.org.au

