

PIMS CODE: 10530404

Sanitation Engineer

Jakarta, Indonesia

The information contained within this Assignment Description was correct at the time of submission. However, AVI reserves the right to amend it as necessary to reflect changes in our own or our partner employers circumstances.

PARTNER EMPLOYER DETAILS

ORGANISATION:	WatSan Action (Yayasan Tirta Lestari)
WEB ADDRESS:	www.watsanaction.org

ORGANISATION PURPOSE, HISTORY AND ACTIVITIES

ORGANISATIONAL CONTEXT:	<p>WatSan Action works with disadvantaged Indonesian communities to build public health & hygiene awareness through sustainable environmental engineering service projects.</p> <p>Objectives:</p> <ul style="list-style-type: none"> • Improve the living conditions of the poor by establishing replicable water & sanitation solutions that advance achievement of UN Millennium Development Goals. • Promote public health & hygiene through constructive environmental education activities. • Empower communities to directly combat their environmental issues through household-scale solutions. <p>Advocate global awareness about the importance of water health by providing documentation of our community service projects to the international community.</p>
HISTORY:	<p>Thousands of communities in Indonesia are in dire need of sustainable technologies to address the lack of safe drinking water as well as other impairing environmental problems. Recognizing the need for technical volunteer outreach programs to aid such communities, this organization started in June 2004 as a Water Program in the Emmanuel Foundation. The organization grew significantly, in part due to international volunteer support, and by March 2009 became an independent locally registered NGO, Yayasan Tirta Lestari (WatSan Action).</p>

AusAID, the Australian Government's overseas aid program, is proud to provide significant support for Australian volunteers who work in a development capacity overseas.

<p>MAIN ACTIVITIES:</p>	<p>WatSan Action has several projects within each of the four main programs: Clean Water, Public Health Promotion, Improved Sanitation and Solid Waste Management programs.</p> <p>1. Public Health Promotion Program: A creative education program targets children, integrating hygiene and environmental sanitation activities into constructive applications. Pre and post-program evaluation ensures a focus on achieving real outcomes in changing the behaviors and improving the health of the children. New hygiene projects targeting adults is underway.</p> <p>2. Clean Water Program provides training on a range of low cost point-of-use drinking water treatment alternatives (i.e. chlorination, solar disinfection (SoDis), ceramic water filters, etc.). Also, working with communities to improve water sources (i.e. construct rainwater collection, make well improvements, build sand filters, etc.). Water quality testing and monitoring is another on-going element of this program.</p> <p>3. Solid Waste Management Program trains their communities in solid waste recycling including making marketable products, and composting organic waste for use for planting. In this way they hope to reduce the health effects of stagnant water and flooding caused by solid waste blockages at the same time as increasing income.</p> <p>4. The Improved Sanitation Program focuses on the software and hardware so to speak, around latrines. Community motivation and participation are fundamental to progress community development objectives. Through regular community committee meetings, children's classes, adult training workshops and large community events, WatSan Action has built relationships that allow them to tackle concerns of highest priority to communities.</p> <p>Beneficiaries are underprivileged people living in urban slum communities, namely Bintaro Baru, Bintaro Lama, Cilincing, Pulo Kandang, Tanjung Priok, and Teluk Gong communities, which are located in different areas of Jakarta.</p>
<p>NUMBER OF STAFF:</p>	<p>WatSan currently has 7 staff</p>

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<p>CONTEXT AND PURPOSE OF ROLE:</p>	<p>CONTEXT:</p> <p>Indonesia is home to 6% of the world's freshwater resources (The Center for Public Integrity 2003), yet access to clean water is a major problem. Long-term squatter encampments, which can most succinctly be described as kampungs in vernacular Bahasa Indonesia, constitute a majority of the population without access to clean water and consequently, unacceptable sanitation conditions.</p>
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	<p>A kampung is self-regulated by residents through an organized social structure, frequently including civic and religious leaders as well as representatives from throughout the community. Family groups maintain personal shelters and an open-fire cooking area, both cobbled together with scavenged or inexpensive, locally available materials. Kampung dwellers commonly collect and scavenge garbage for items of value for resale or reuse and then burn the remainder (the average daily income for the scavengers is just over US\$1.)</p> <p>Public utilities are rarely available to these urban poor groups, so frequently the focal point of such communities is a water feature such as a river or drainage canal. These waterways are, almost without exception, choked with litter, detritus and debris such as sewerage and industrial by-products. Many of these kampungs in the Jakarta area are located in urban flood plains, which frequently flood and are doomed with drainage issues. Considering sewage treatment is virtually non-existent, the looming raw sewage exacerbates poor health and hygiene conditions. Where septic tanks do exist, they are commonly near water wells. Piles of trash are also commonly seen burning near water wells of dwellings. Both indicate an imperative need for education in water health and sanitation.</p> <p>This will be the first time AVI has worked directly with WatSan Action although there has been on-going communication between AVI, WatSan Action and Engineers Without Borders for a number of years.</p> <p>WatSan Action is functioning well with limited staff and resources, however there is a need for additional technical support specifically in regards to latrine design and implementation. There is a local Sanitation Engineer on the staff, but there still remains a need to increase the organisations knowledge and technical capacity.</p>
ASSIGNMENT OBJECTIVE/S:	Increase the capacity of the organisation to develop alternative latrine designs and construction for urban slum conditions.
START DATE:	Mid 2010
DURATION:	13 Months (including one-months language training)

WORKING RELATIONSHIPS	
LINE MANAGER:	Improved Sanitation Program Officer
STAFF SUPERVISION:	The volunteer will not be expected to manage any of the organisations staff.
OTHER STAFF:	At various times throughout the assignment the volunteer will be working together with each of the WatSan Action staff members. The team is a small group of friendly, hardworking individuals and

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	relationships within the team are key factor in the success of the assignment.
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DUTIES AND RESPONSIBILITIES OF THE VOLUNTEER

- Research and design of appropriate latrines for urban areas (ie, composting latrines, overhang ecosystem latrines)
- Design implementation
- Monitoring and Evaluation
- Reporting

Note: Specific tasks/activities should be developed, with the employer and local counterparts, to ensure the sustainable transfer of knowledge and skills in the carrying out of the broader Duties and Responsibilities.

WORKPLACE DETAILS AND CONDITIONS OF EMPLOYMENT

LOCATION AND ACCOMMODATION:	<p>The assignment is located in Jakarta, the capital city of Indonesia and both the office location and target communities are in urban areas.</p> <p>Accommodation is available in the office. The accommodation is safe, secure and comfortable.</p>
NEAREST MAJOR CITY:	The assignment is located in Indonesia's capital city.
LOCAL CONTEXT:	<p>Indonesia is the fourth most populous country in the world and the third most populous in Asia, after China and India, with a population of approximately 237,000,000. Approximately 60% of the population is located in Java. The country is richly endowed with natural resources, yet poverty is a defining feature of contemporary Indonesia.</p> <p>Jakarta is densely populated, with an average of 14,000 people per square kilometre, a day time population of approximately 18 million and 11 million at night and a three per cent annual population growth rate (300,000) mainly through the influx of migrants from outer regions and provinces looking for work. The city is generally hot, crowded and polluted and has a number of characteristics in common with many developing South East Asian cities, which may cause discomfort or annoyance such as traffic congestion and inadequate infrastructure. However, despite these perceived difficulties, Jakarta offers many benefits comparable with other large cities, including an increasingly vibrant arts scene, local and international cultural events, and a wide range of dining and entertainment opportunities.</p> <p>The personal security situation in Jakarta is generally considered acceptable, with a relatively low incidence of personal crime targeted towards foreigners when compared to other large cities</p>

	<p>internationally. Security concerns do generally not limit independent travel in Jakarta. Demonstration of common sense and cultural sensitivity will greatly contribute to personal security.</p> <p>Terrorism has emerged in the past ten years as a major concern in Indonesia, with foreigners, including Australians, being specifically targeted. While the threat remains, a major attack against foreigners has not occurred in Indonesia since 2005, and considerable advances have been made by the Indonesian Government in combating terrorism. The Australian Government maintains travel advice stating that the threat of a terrorist attack in Indonesia still remains.</p>
MAIN LANGUAGES:	<p>USED IN THE WORKPLACE:</p> <p>Bahasa Indonesia and English are the languages predominantly used in the office.</p> <p>LEVEL OF COMPETENCY REQUIRED IN LOCAL LANGUAGE:</p> <p>Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/></p> <p>USED IN THE COMMUNITY: Bahasa Indonesia will be the language predominantly used in the community.</p> <p>LANGUAGE SUPPORT: All volunteers are provided with four-weeks intensive language training on arrival in Indonesia.</p>
HOURS/DAYS OF EMPLOYMENT:	From 8am to 4.30pm, Monday to Friday.
LEAVE:	14 days per year excluding public holidays and weekends
OTHER CONDITIONS:	<p>OUT OF HOURS WORK MAY BE REQUIRED: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>TRAVEL MAY BE REQUIRED AS PART OF THIS ROLE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

SELECTION CRITERIA - Please address these in your application

QUALIFICATIONS:	Degree in Environmental Engineering or related field
ESSENTIAL SKILLS & EXPERIENCE:	<ul style="list-style-type: none"> ▪ Minimum 3 years experience in latrine design or related programs ▪ Experience in preparing technical reports and/or presenting technical data to quantitatively document project/program outcomes ▪ Computer literate
ESSENTIAL PERSONAL QUALITIES:	<ul style="list-style-type: none"> ▪ Commitment to team work, coaching and mentoring others. ▪ Awareness and sensitivity of cross-cultural settings. ▪ Patience, tolerance and flexibility. ▪ Ability to cope with cultural isolation and a different standard of

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	<p>living.</p> <ul style="list-style-type: none"> ▪ A preparedness to work with limited resources within a challenging environment. ▪
DESIRABLE:	<ul style="list-style-type: none"> ▪ Basic Indonesian language skills ▪ Previous overseas experience with community based organisation

PLACEMENT FUNDING

LIVING ALLOWANCE*:		ACCOMMODATION ALLOWANCE*:	
AVI:	AUD 2850.00 per quarter	AVI:	AUD 0.00 per quarter
EMPLOYER:	AUD 0.00 per month/quarter	EMPLOYER:	AUD 0.00 per month/quarter
OTHER INFORMATION:	<p>The employer will provide safe secure and comfortable accommodation within the office</p> <p>It is strongly suggested that the volunteer bring a personal laptop for use within the office.</p> <p>* This is a current estimate which may be subject to change.</p>		

OTHER ALLOWANCES

SETTLING-IN:	AUD 1300 paid prior to departure *
RE-SETTLEMENT:	AUD paid at the conclusion of the placement
OTHER:	<ul style="list-style-type: none"> ▪ Airfares at the commencement and conclusion of the placement to and from the placement of recruitment in Australian only. ▪ Pre-departure vaccination expenses. ▪ Medical and emergency insurance evacuation coverage. <p><i>*payable on volunteer assignments greater than six months only.</i></p>

ADDITIONAL INFORMATION

Applications must:

- Be submitted via our website in Microsoft Word format only.
- Address all of the **essential selection criteria**. Applications that do not will not be accepted.

Final confirmation of the appointment is subject to:

- Formal approval from the employer.
- Procurement of visa and work permits.
- A satisfactory medical examination.
- A satisfactory criminal record check by the Australia Federal Police.
- Satisfactory completion of the pre-departure briefing.

Australian Volunteers International is strongly committed to protecting the rights of children. We adhere to laws in Australia and foreign countries regarding child exploitation and support Childwise and ECPAT International.