

# ***ENGINEERING STUDENT DESIGN CONTEST***

*Emergency wastewater disposal*

**Emergency Sanitation  
Project**

[www.emergencysanitationproject.org](http://www.emergencysanitationproject.org)

# ***THE PROBLEM***

As part of the Emergency Sanitation Project (ESP), the International Federation of Red Cross and Red Crescent Societies (IFRC) is launching an engineering student design contest to source new designs for the safe disposal of human waste.

The design should enable the treatment and safe disposal of the human waste of 15 to 20'000 people. The design should be **simple** and inexpensive to operate and be transportable by cargo aircraft.

As this is equipment or a process for the acute emergency phase, the final effluent quality does not need to be high. Anything which reduces the harmful impact of the sludge (including odour, destruction of aquatic life, algae blooms, disease outbreaks, etc), even a small amount, is welcome.

Design entries may focus on part of the problem of safely disposing human waste in emergency response (e.g. large solid removal), however, the highest scoring responses will be those that represent a complete solution.

# ***ELIGIBILITY***

The competition is open to undergraduate and graduate students in Bachelors, Masters, or Ph.D. programmes worldwide during the 2013 fall or 2014 spring terms.

# ***TIMELINE***

Designs must be submitted by March 3, 2014. Winners will be announced on April 4, 2014.

# ***AWARDS***

The IFRC will award a field or headquarters internship to the top two finalists.

# ***ADDITIONAL INFORMATION***

Terms and conditions, submission requirements, judging criteria and more information about the contest can be found at [www.emergencysanitationproject.org](http://www.emergencysanitationproject.org) or by contacting William Carter ([william.carter@ifrc.org](mailto:william.carter@ifrc.org)).

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