



An initiative for the advancement of appropriate, high-value innovations in global health biotechnology

Undergraduate International Summer Internships

The BTB international summer internship program gives Rice University undergraduate students first-hand exposure to health care in the developing world. The internship:

- Improves students' understanding of the constraints (infrastructural, technological, cultural, educational, political,...) under which such care is given
- Inspires ideas for appropriate technological solutions to medical care issues
- Guides the students in the development of global health technologies that respond to care constraints

In partnership with clinics, schools, and organizations working in developing countries, the internships allow students to advance in a real-world setting their solution to a Global Health Design Challenge Project developed at Rice through their Global Health Technologies Minor coursework.

BTB Initiative Mission



...to foster the creation of globally appropriate health technologies that address pressing health needs of the developing world...

By engaging students in a novel multi-disciplinary educational program, we challenge them to reach beyond their usual geographic and disciplinary borders and help them gain knowledge and skills to advance innovative technologies. The BTB Initiative's Global Health Technologies curriculum broadens understanding of disease processes and advances in health technologies, incorporating this understanding with important world health issues. The program gives students real-world global health design challenges, encouraging them to develop meaningful solutions that make a real impact today.

Past Summer Internship Projects

Swaziland

- Establish BIPAI clinic World Food Programme food distribution system
- Create local language nutrition education & food preparation video



Lesotho

- Conduct HIV educational activities at local SOS Village orphanage
- Implement Reach Out & Read program at the BIPAI clinic
- Organize & create materials for group ARV adherence counseling and education training sessions for local nurses & social workers



Botswana

- Analyze patient data for trends in local resistance to second-line ARVs
- Create software to generate pictorial ARV medication dosing guides



Malawi

- Assist with cross-country neo-natal HIV-testing training
- Assess the capacity and needs of rural laboratories



Share the experiences of former BTB international summer interns as they spend 8 weeks in Haiti, Botswana, *Lesotho*, *Malawi*, *Swaziland*, and *Guatemala*.

Read accounts of their daily lives and learn how new technologies care improve health care in resource limited settings.

www.owlsbeyondborders.rice.edu

This initiative is made possible by a grant to Rice University from the Howard Hughes Medical Institute through the Undergraduate Science Education Program