



Corporate Sponsorship for the Build-it, Break-it, Fix-it Security-minded Programming Contest

Build-it, break-it, fix-it (BIBFI) is a security-minded programming contest. Details about the contest are at <https://builditbreakit.org>. Here is a summary:

Contestants form teams that perform one or both of two roles: **build-it teams** aim to build a software system that is secure, while also aiming for utility and efficiency; **break-it teams** aim to find bugs and vulnerabilities in build-it teams' software. Cash prizes are awarded to the top-performing teams in each category (build-it and break-it).

Contestants will be drawn from undergraduate students at top-50 schools in the US with an interest in security (probably with a CS background), in addition to participants in the [Coursera Cybersecurity Specialization](#).

1. Financial sponsorship

Level	Amount	Benefits
Platinum	\$7,500	<ul style="list-style-type: none"> • Named co-host of competition • Access to US-based student participants and Coursera students' resumes • Prominent company name recognition with logo on contest promotional materials and website • Participation at local reception for any participants in the area; winners will be video-conferenced in • Ability to judge* • Ability to participate as a "Break It team" and evaluate student code** • Ability to help competition organizers prepare a problem and/or possible solutions*** • Ability to host additional competition prizes at each stage of the competition
Gold	\$5,000	<ul style="list-style-type: none"> • Access to US-based student participants and Coursera students' resumes • Recognition on contest website and promotional materials • Participation at local reception for any participants in the area; winners will be video-conferenced in • Ability to judge* • Ability to serve as a break it team and evaluate student code**
Silver	\$2,500	<ul style="list-style-type: none"> • Access to US-based student participants' resumes



		<ul style="list-style-type: none">• Recognition on contest website and promotional materials
Bronze	\$1,000	<ul style="list-style-type: none">• Recognition on contest website and promotional materials

A sponsoring company will provide funds to support the running of the contest. The costs and benefits of sponsorship are summarized in the above table. Funds will be used to pay for equipment, or to finance prizes. There are four levels of support:

Platinum sponsors donate \$7,500

Gold sponsors donate \$5,000

Silver sponsors donate \$2,500

Bronze sponsors donate \$1,000

All sponsoring companies will be listed on the BIBIFI web site, and separated by sponsorship level, with platinum first, and largest, and bronze last. All sponsors will also be listed, in a similar way, on promotional materials, including posters and flyers.

Platinum-level sponsors will be listed at the top of these materials, to the effect of saying “Company A, Company B, and the University of Maryland present Build-it, Break-it, Fix-it, a new security-minded programming contest.”

Platinum and gold sponsors will receive access to US-based student contest participants and Coursera students’ resumes on an opt-in basis: students will be asked to upload their CV as a requirement of participation, and will be asked to check either “yes” or “no” to sharing that resume with (specifically named) corporate sponsors to be told about potential internship and long-term employment opportunities.

***Judging**

Platinum and Gold sponsors are welcome to serve as official judges of the event. There are several points at which human judging is needed for the contest. For example, student teams in the build-it round must not submit obfuscated code; whether or not code is obfuscated or just badly written is a matter of interpretation, so it is up to the judges to decide that. As another example, students in the fix-it round will submit fixes to bugs found by break-it teams, but each fix should address only a single flaw, not multiple flaws. The teams will submit a fix-it report along with their fix that argues why one flaw is being fixed. It is up to the judges to decide whether they agree with this, or whether they think, in fact, the students have fixed multiple flaws, in which case their fix will be rejected.

****Break-it teams**

Platinum and Gold sponsors can participate in the break-it phase of the contest, whose aim is to find bugs and vulnerabilities in the software implemented by teams in the build-it round. Problems that companies find will be counted against the build-it teams, and will factor in to how prizes are determined for that round. Student break-it



teams will also be doing the same thing, and the most effective ones will receive prizes. Company teams will set a benchmark against which it will be interesting to see how student teams perform. This is a fantastic benefit as it allows companies to have access to students' code, from which they could easily identify top talent to meet their recruiting needs.

*****Problem Preparation**

In preparing for the contest, we will prepare a programming problem. We would welcome input from Platinum sponsors on possible problems, and would welcome sample solutions (to problems they suggest, or ones that we do).

Other possibilities

We are open to other ways that companies can provide support. If you have suggestions, let us know!

3 Contact Information

For more information, contact either Dr. Michael Hicks, mwh@cs.umd.edu, +1-301-405-2710 or Savannah Renehan, srenehan@cs.umd.edu, +1-301-405-9695