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Yet all involved in this emboldened world of company-funded university research and collaboration are aware of the potential mine fields.

"It is a delicate balance because you don't want academic values to be compromised by corporate" priorities, Stanford's Dally said. "A university is about creating knowledge while a company is about creating value."

He said Stanford is careful about striking a balance. "What we really want to do is have an impact" with the knowledge developed at the university, he said.

Stanford is accustomed to walking this balancing act.

"Stanford has always had an unusual relationship with industry," Dally said, that dates back to the 1930s when students William Hewlett and David Packard started their famed company and which continued with other students and professors founding Sun Microsystems Inc., Silicon Graphics Inc., Yahoo Inc. and Google Inc.

At Berkeley, they are working hard to strike those balances.

Eric Brewer, the Berkeley computer science professor who is the other director of Intel Research at Berkeley, said the only reason that lab is functioning well is "it is all open work with peer reviews, so the intellectual freedom remains."

The fact that Intel agreed that the research coming out of the lab would be open and not proprietary "was a big step for the university accepting it. The open intellectual property part is critical," Brewer said.

Academics are used to publishing papers and getting feedback from other academics on their work. Brewer wanted to make sure that happened at the lab.

And so, in the lab's Shattuck Avenue offices, researchers are working on things called Delay Tolerant Networking to allow Internet communications with remote places and Distributed Inference for Network Anomaly Detection to provide security to networks when firewalls don't work.

Asked Intel's point of view on not having any proprietary rights to the research it is funding, Brown, the Intel co-director, said, "We have access to leaders in the field and great students" who might be inclined to develop these ideas commercially upon graduation.

But the question of balance between academic freedom and intellectual property rights for the companies involved is important enough that Berkeley a year and a half ago opened an Office of Intellectual Property and Industry Alliances, whose staff helps negotiate the intellectual property rights in these deals.

At Stanford, professor Mark Horowitz, who left Stanford for a while to start Rambus Inc., said, "There always was concern about research being funded by industry. But I do think there are benefits to both sides. Stanford is unusual in that people who do go and start companies often come back — and that fosters new research areas."

But David Shaw, a former Stanford graduate student and a former Columbia University computer science professor who founded D.E. Shaw & Co., said whether compromises are made in research because of lies to industry is "a question I worry a lot about." He said the marketability of a research area could subliminally affect choices. "Are we going to pull away from scientifically interesting problems?" he asked when speaking at the Stanford 40th anniversary panel.

Shaw noted that there is another worry as university people leave to start up companies: "Who is going to be left to teach the next generation?"

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