External Research Funding

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A Broad Portfolio

Semiconductor Research Corporation
– Industry/Govt

National Nanotech Initiative (NNI) and
NanoElectronics Research Institute
(NRI) – Industry/Govt

- Process
- Devices
- CAD
- Nanotech
- Manufacture

Semiconductor Technology Council

SRC/MARCO – Industry/Govt

Research Council

- Circuits
- Architecture
- Communication
- Systems
- Applications

$\Rightarrow$ Heavy use of Consortium Model (shared investment and govt leverage)
$\Rightarrow$ Focused on long range technical challenges

Intel Research (intel)

Research Council Mission

- Support long-term research relevant to Intel's future

- Build and Strengthen ties between Intel and research community

- Support mutually beneficial technical collaboration and interchange

- Train researchers who may become technical leaders at Intel or elsewhere (e.g. the universities)

Intel Research (intel)

Research Council Support Areas

Architecture (Circuits, uArchitecture, CAD, Programming Systems)

Communication (Networking, Optics, Wireless,...)

Systems (Platform, M-cores, Scalable Architecture, ...)

Applications (Mobility, User Interface, Health, Community)

... and some HVM and STC

Intel Research (intel)

Getting Research Council Support

Philosophy: "Pre-couple projects for tech transfer"

- No RFP's

- Every project has a internal Intel Sponsor (technical advocate)

- Sponsor acts as advocate (internal) and connects to the research activity intellectually

Typical Process

-Build relationship with Intel Researchers/Technical Leaders (conferences, Intel Lablets, ...)

-PI works with sponsor to draft a proposal that addresses a research problem of direct interest to Intel

- Sponsor takes the funding proposal to the research council

Intel Research

Typical Research Council Grant

3 years, renewed annually

~60-80K / year

Gift or other contracting mechanism

Success:

-High quality work

-Tech transferred into Intel / influences direction

-Students come and work at Intel

-Students graduate, become professors, work on relevant problems

Intel Research (intel)

Thank You!

Intel Research