I/UCRC for Center for Child Injury Prevention Studies (CChIPS) IAB Meeting
November 18-19, 2015

I/UCRC, IIP Division
National Science Foundation

Welcome to the Industry / University Cooperative Research Centers
CChIPS: a Phase III I/UCRC in its 1st year of operation

The Children’s Hospital of Philadelphia - Lead Site
Director Flaura Winston

The Ohio State University – Site
Director John Bolte

Awarded in Summer 2015 under NSF 13-594

Two Institutions, Each carrying its weight, adding its own value

One Center, One Industry Advisory Board
Center Evaluator – Lindsey McGowen
CChIPS’s IAB Meeting today

- I/UCRC Program Update
- CChIPS through Phase III

A path to self sustainability for your center
ENG Organization

Office of the Assistant Director
Pramod Khargonekar
Deputy Assistant Director
Grace Wang

Emerging Frontiers in Research and Innovation (EFRI)

Engineering Education and Centers (EEC)

Chemical, Bioengineering, Environmental, and Transport Systems (CBET)

Civil, Mechanical, and Manufacturing Innovation (CMMI)

Electrical, Communications, and Cyber Systems (ECCS)

Senior Advisor for Nanotechnology

Industrial Innovation and Partnerships (IIP)
Barry Johnson
Program Funding
- ~$20.6M in Program Funding (ENG, CISE)
- 6:1 Leveraging of NSF funds

Students
- Over 2000 students engaged (nearly 30% of the ones graduated hired by members on an annual basis)

Sustainability
- Over 40 Graduated I/UCRCs remain in operation true to model
Additional Funding Opportunities for I/UCRCs

Base Funding:
- Federal Government Interagency Exchange of Funds (IAA)/Military Interdepartmental Purchase Requests (MIPR)
- Fundamental Research Program (FRP)
- Veterans Research Supplement (VRS)
- Innovation Managing Director (IMD)
- I/UCRC Innovation Fellows (IIF)
- Research Experience for Undergraduates (REU)
- Research Experience for Teachers (RET)

Supplements:
- I/UCRC Clusters for Grand Challenges
- New!
- Archived

Additional Funding Opportunities for I/UCRCs
Significant Program Updates

- A brand new solicitation that just posted on October 15 that revolutionizes the I/UCRC Program

- The FRP Program has been archived. Given the fundamental nature of the research projects and the industry participation, proposals should be submitted by using the GOALI mechanism to the NSF Program supporting fundamental research that is more closely related to the one proposed (not to the I/UCRC Program). Please make sure to inform us to which Program you intend to submit.

- The IMD Program has been archived in preparation of the posting of the new solicitation.

- The IIF Program has been archived. A lot of opportunities for students are found through the Office of International Science and Engineering (OISE)
I/UCRC Program New Solicitation NSF 16-504 - Highlights

- New deadlines January 11 and July 11; LOI due May 9
- Base funding **per year per site** has been increased and depends on in-cash membership fees collected from the IAB members:

<table>
<thead>
<tr>
<th>I/UCRC</th>
<th>Industry (in cash only) $$ and # members/site</th>
<th>NSF 16-504</th>
<th>NSF 13-594</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase I</td>
<td>$150k and 3 members</td>
<td>$150k/site</td>
<td>$65k/site</td>
</tr>
<tr>
<td>Phase II</td>
<td>$200k and 4 members</td>
<td>$100k/site</td>
<td>$45k/site</td>
</tr>
<tr>
<td>Phase III</td>
<td>$250k and 5 members</td>
<td>$50k/site</td>
<td>$15k/site</td>
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</tbody>
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**Bonus:** Phase I and Phase II Sites exceeding minimum membership requirements over the five years of their current operating Phase are eligible to receive half of the in-cash membership fees received in excess of the minimum at their renewal, not to exceed $250,000 per Site and equally distributed over the five year duration of the renewal award. **Example:** a Phase II site receives $1,200,000 in cash membership fees over a five year period ($200,000 over the minimum membership fees), the Site will be eligible to receive an additional $100,000 at the time of the Phase III renewal ($20,000 per year in addition to the $50/year base).

Single University Center in any Phase: a minimum of $400,000 in-cash (no in-kind cash equivalent) annually with a minimum of eight distinct full members.
I/UCRC Program New Solicitation NSF 16-504 - Highlights

Proposal Submission
- proposals for multi-institution I/UCRCs are no longer submitted as collaborative proposals
- Each aspiring Site in a Center must submit a separate proposal clearly indicating how it augments the center as well as identifying the strengths of the team that qualifies it to become a Site of an I/UCRC

Center Leadership
- Center leadership is elected and can be changed at any time (with prior notification to NSF) if Center growth and success are in jeopardy

Center life and Site addition to an existing center
- The start date of a Center is the original date of the first award associated with that Center and dictates the possible 15 years funding of the Center.
- Adding new Sites, and/or transferring the Center leadership to a newly established Site does not extend the life of a Center.
- New Site joins in the Phase of the existing Center and New Site awards are limited to the remaining duration of the Phase of the Center (for example, if the founding Sites/Center were (was) awarded three years prior to a new Site coming onboard, the new Site will receive funds for only the two years that remain in the duration of the Phase).

Cost sharing/Program Income
- Cost-sharing is no longer a requirement. Membership fees received by the Center are considered program income. At least 90% of the I/UCRC program income must be used to support direct costs of the research, and up to 10% may be used to support indirect costs.
Moving research ideas past the basic discovery stage towards and through the proof-of-concepts while preparing the next generation of innovators.
Dear Colleague Letter: I/UCRC Clusters for Grand Challenges

Form a strategic team to tackle a cross-disciplinary, cross-sector portfolio of research projects that hold the potential to catalyze technology breakthroughs and advance national priorities, particularly in advanced manufacturing.

The active participation of industry in the design and implementation of cluster research efforts is expected.

Budget and Duration (1.5M for two years): $750k per year for each cluster with up to $150k per year per I/UCRC

Eligibility: I/UCRCs meeting minimum membership requirements for three years in a row (and with one in kind only)
2014 Compendium of Industry-Nominated I/UCRC Technology Breakthroughs
What will be CChIPS’s Impact Stories?

Over 1400 Publications in ’13, 248 co-authored w/Members
National Science Foundation I/UCRC Contacts

Program phone: (703) 292-8383  Program email: iucrc@nsf.gov

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for more information: http://www.nsf.gov
and: http://www.nsf.gov/eng/iip/iucrc

Note: The best way to contact us is via e-mail. Many are on the road frequently.
CChIPS OSU Renewal: Changes in the New Solicitation

Lindsey McGowen, PhD
CChIPS Evaluator
North Carolina State University
November 17, 2015
Phase Transitions: OSU

- CHOP is funded under 13-594, but OSU will be applying under 16-504
- Need to clarify implications with NSF
- *Some* solicitation changes that may affect OSU renewal
  - Funding phase will be synched with CHOP: Phase 3, year 2
  - In-kind does not count toward meeting membership/funding requirements
  - No multi-site supplement for lead
  - Opportunity for fund matching based on membership fees collected during Phase I in excess of minimum requirements
  - Failure to meet minimum requirements during year 1 or twice during any phase results in termination
  - University cost-sharing not required
  - Site based proposals
  - Limitations on counting university affiliated start-ups and foundations to meet NSF membership requirements

- New Phase III Requirements
  - $250K (cash) minimum industry support per site
  - 5 distinct full members
  - $50K NSF I/UCRC award
Industry Survey

• Available at the bottom of the LIFE site project list
• http://ncsu.edu/iucrc/forms/industry15.html
• Email follow up after the meeting

• An excellent opportunity to document impacts of participation for member companies
  • Networking
  • R&D
  • Commercialization
Faculty Survey

• Available at the bottom of the LIFE site project list, under the PI response section
• [http://ncsu.edu/iucrc/forms/facultyshort15.html](http://ncsu.edu/iucrc/forms/facultyshort15.html)
• Email follow up after the meeting

• An excellent opportunity to document impacts of participation for faculty and researchers
Questions?

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