



## HOME

**OVERVIEW**

**SUBMITTING FAQ**

**RATING FAQ**

**MY ACCOUNT**

**AIHW**

**LMD**

**AMSCSD**

**IRP**

**HWS**

**PKG**

**CADT**

**PKG (CHIRP)**

Login to Complete an Application or to Access Judging Panel

**Sign in**

G

# ing (PKG) Research

**SUBMIT WHITE PAPER**

**S**  
**Guidelines**  
**Deadlines**  
**Criteria**

Research Corp. (SRC) [Packaging Program \(PKG\)](#) member companies are pleased to solicit white paper funding in 2022.

Open to all domestic and foreign universities and may be addressed by an individual investigator or a corporate selection process is divided into two stages. Interested parties are requested to submit a 1-page white paper which should identify what can be done in a three-year period beginning January 1, 2023. A successful white paper will result in an invitation to submit a full proposal. These proposals will be further down into research contracts.

ll address existing and emerging challenges in information and communication technologies (ICT) hnnologies, as outlined in the [Decadal Plan for Semiconductors](#), and accelerating innovation in

of the members for selected projects to be reviewed and renewed annually, but we anticipate that e a lifetime of 3 years which should help support a mix of research scholars. SRC projects typically e research scholars doing a variety of doctoral dissertations, graduate research, undergraduate e post-doctoral work.

o universities worldwide, may be addressed by an individual investigator or a research team. **urdue, SUNY Binghamton, SUNY Albany, SUNY Buffalo, SUNY Stony Brook, and SUNY** strongly encouraged to use the [CHIRP](#) focused [call for research](#). SRC expects to support each [K \(USD\) per year](#). The number and size of the contracts awarded will be determined by the ds, the support of the research needs, and by the number of high-quality proposals. Proposals everage (other funding resources related and beneficial to the proposed work) are encouraged and described (ex. Fellowships, student support, fabrication support, etc.).

may be involved in no more than two white papers as either a principal investigator or co-principal

ds are outlined in the [Packaging Research Program needs document](#). Researchers should carefully ment.

### **Participation Pledge**

e next wave of semiconductor innovation and solve the enormous challenges facing our industry, ressive [agenda](#) from the Decal Plan for Semiconductors, we must be equally committed to these ts of that success – the people and communities we create and nourish (for example women and d minorities). Hence, 2030 Broadening Participation Pledge is issued below.

*ecade, as SRC defines, selects, and manages its research and education programs, we will look to e base, establish a balanced mix of bachelor's, master's, and Ph.D.-level initiatives, and create a more sive community.*

### **ment to Sustainability**

d growth of semiconductor chip manufacturing in the coming years, it is imperative that the als, and processes involved in their manufacturing are as [sustainable as possible](#). Therefore, ce into consideration the environmental and human health impacts of new chemistries and focus on of more must be environmentally preferable materials and processes chemistries that are more fective, and safer. In general, chemicals that are known to be persistent, bio-accumulative, or toxic ore environmentally benign substitutions. Two specific examples include, high global warning ases used for etching and chamber clean and a diverse class of per- and poly-fluoroalkyl substances y as PFAS.

improvements that Moore's law has afforded to semiconductor hardware and the systems they ble global appetite for ICT is yielding energy consumption levels that are creating a new headwind e advancement of technology. This may limit the growth of our GDP or semiconductors as an t't invest in the discovery of new technologies with radically improved energy efficiency.

### **delines**

limited to 1 page total, using a minimum of 10-point font size, and must be submitted via the application **by Thursday, June 22, 2022, no later than 11:59 PM EDT**. Submissions not in ll guidelines will be excluded from consideration.

### **re following identifying information in your White Paper:**

and university.

igator's contact information (telephone number, mailing address, and e-mail address).

### The following topics in your White Paper:

**1:** Emphasize area and problem to be addressed; match most relevant topic addressed in the document. Projects can cover multiple research needs. Please identify each code covered in the

sent your strategy for addressing the problem. Describe important findings from your research to how your proposed research would advance the state of the art and be useful to SRC member

**Results:** What you plan to accomplish in a 3-year period. What are the anticipated outputs of a rt?

**Participation:** How your task will enhance diversity in one or more of the following ways.

1 of SRC's student population

re BS and/or MS students and research/education initiatives

iversity – getting more women, more under-represented minorities (URM) involved - globally

2 US students into graduate research while still advocating for the best students from across the

researchers and [young faculty](#).

**Cost and participants:** Plan for yearly budget should include overhead charges by your institution.

, please also indicate the number of students supported and their degrees pursued. A detailed et is not required at this time.

**Age:** Illustrate any leveraged funding which supports the goals and objectives of the proposed

ional collaborative funds identified for the project help expand the scope of the proposed research.

3: Identify any background intellectual property that either blocks the exercise of license rights or ged by implementation of any of the expected results of this proposed research.

### es will be expected to:

(s) to work on the project at the start of the contract and encourage them to join the [SRC Research n](#).

SRC's annual student conference, TECHCON, is highly encouraged.

ent interactions and hiring by Industry participants.

lls with industry liaisons at least every 4-8 weeks.

icipation in annual project reviews (PI(s) and student(s) are invited).

formance Indicator ([KPI](#)) Scorecards yearly associated with annual review.

for pre-defined deliverables in accordance with due dates set in proposal.

tions, posters, thesis, etc. resulting from sponsored research.

lication drafts (conferences, journals, etc.) to SRC at least 60 days prior to anticipated publication

romising areas of research with disclosures sent to SRC.

dget with timely spending and regular invoicing to SRC.

hy events and announcements about you and your team to SRC.

software is to be developed, SRC encourages the use of MIT licensing terms when made available [source.org/licenses/MIT](https://source.org/licenses/MIT).

### eadlines

	Deadline
of Call-for-White-Papers	Wednesday, June 1, 2022

Submit White Papers	Wednesday, June 22, 2022, <b>11:59 PM EDT</b>
Submit Full Proposals	Monday, July 25, 2022
Submit Full Proposals	Wednesday, August 24, 2022, <b>11:59 PM EDT</b>
Proposals Notified	Friday, October 7, 2022
Start	January 1, 2023

## Criteria

White papers and later proposals will be accomplished through a technical review of each white paper using the following criteria, which are listed in descending order of relative importance:

1. Scientific and technical merit

2. Novelty, and impact of proposed research

3. Participation

4. SRC's Commitment to Sustainability

5. Diversity of proposed investigators, Cost effectiveness, realism

Technical questions to [John Oakley](#), Research Program Director.

Comments and responses should be directed to [Tameka Bell](#), Research Program Coordinator.

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