

Call for Submissions

Call for Submissions 2020

Global Technology Challenges: Creating a Sustainable, Secure Future for Society

This year, the Arm Research Summit will be a virtual conference, bringing researchers from academia and industry together to discuss global technology challenges affecting our industry and the world around us. Research from all disciplines has the potential to significantly impact computer science, engineering, and society, and we encourage researchers to consider their projects in the context of the issues raised by the Global Goals. How could your findings help technological advancements that preserve the environment, empower and protect our people and their data, or contribute to sustainable economic growth?

The Summit will provide a unique forum to discuss these challenges, with plenty of networking opportunities to encourage the continued development of a collaborative, diverse, and open Arm Research ecosystem.

Submit your proposal here by June 1 2020: arm.com/summit-submit

Topics

The Arm Research Summit invites the submission of engaging presentations, posters, workshops and demonstrations that promote insightful discussions among peers. We welcome work in varying degrees of maturity and on a wide range of research topics. Early works-in-progress, late-breaking results, new takes on proven approaches, and recently published material from academics and researchers at all stages of their careers are welcome.

The Summit agenda is comprehensive, and welcomes research related to a broad range of technical topics. We also encourage you to consider the application of your work to various global challenges. These issues are intrinsically complex, transversal and multidisciplinary, requiring a coordinated effort across all disciplines – how could your work play a role in this?

Technology Topics		
Biological, organic, molecular, and quantum computing Cybersecurity (both hardware and software aspects) Data science Distributed systems Emerging semiconductor technology: transistors, photonic devices, process technology Human-computer interaction (HCI) Machine learning, Cognitive computing Non-Von Neumann and post-Moore architectures Power management and green computing Programming models or runtime support Robotics and 3D printing Scalability and scalable systems Semiconductor applications: Automotive, Low power sensors, Healthcare and devices, High-performance computing, Internet-of-things (IoT), edge computing and wearable computing Systems, macro and micro architectures Semiconductor systems performance measurement, characterization, analysis, and prediction Software, i.e. operating systems, applications, services, tools, etc		
Global Challenges		
Environmental Preservation	Societal Empowerment	Sustainable and Secure Growth
Smart and Sustainable Cities and Communities Responsible Consumption and Production Climate Action and Awareness Novel Materials	Trusted and Secure Data Enhanced Industry, Innovation and Infrastructure Affordable and Clean Energy Good Health and Wellbeing Equality and Education for All Clean Water and Sanitation	Improved Employment and Growth Opportunities Elimination of Hunger, Poverty and Inequality Building Effective, Accountable and Inclusive Institutions Data Reliability and Privacy

Submission Information

A review panel selected by the Arm Research Summit 2020 Organizing Committee will review every submission. A successful talk or poster at the Arm Research Summit is one that inspires spirited discussions among the gathered experts from academia and industry. There will be no formal proceedings, however, presented materials will be published on the [Arm Community](#). Contributions are welcomed from students, researchers, and innovators at all stages of their careers, from academia, industry, and government organizations.

Requirements:

1. Abstract

A 250-500 word overview of your submission.

2. Submission description

Objectives of the talk/poster/workshop/demo, target audience, relevance for Arm, history of the talk or poster (new or if already presented, what changes will be made).

3. Optional: Supporting material

Optionally include additional material such as a poster, quad-chart, single slide, paper, presentation, video, etc. to help demonstrate key contributions. This material will only be used if a reviewer needs additional information. There is no hard page or slide count limit on the material, but short and concise materials are more likely to be reviewed in detail.

Note: Every submission should be associated with at least one of the technical topics listed above, as well as at least one global challenge. Questions regarding scope should be directed to researchsummit@arm.com. On the [submission site](#), please select the topics that your submission most closely relates to.

During the review process, the authors may be asked to answer specific questions or to submit additional material to clarify the content of the submission.