

COLUMBIA LAB-TO-MARKET

ADVANCED MATERIALS PRIZE

WITH CORNING INC.



CORNING

COLUMBIA-CORNING ADVANCED MATERIALS PRIZE

The Columbia-Corning Advanced Materials Prize was founded in 2020 as a joint effort between Corning and Columbia University. We source promising advanced material technologies and startups from Columbia University research labs and dorms to build game-changing companies. All research labs across Columbia are eligible.

OUR PARTNERS

This program is administered by Columbia Lab-To-Market and the Columbia Materials Research Science and Engineering Center (MRSEC).



OUR TEAM



COLIN NUCKOLLS
CO-DIRECTOR

*MRSEC-COLUMBIA ENGINEERING,
HIGGINS PROFESSOR OF
CHEMISTRY*



JEFF DEMARS
COORDINATOR

MRSEC-COLUMBIA ENGINEERING



AMELIA PACTH
PROJECT MANAGER

INDUSTRY RELATIONS GROUP



DMYTRO POKHYLKO
DIRECTOR

*COLUMBIA TECHNOLOGY
VENTURES*

CORNING PARTNERS



RYAN FLANNERY
CORNING INC.

CORNING'S INVOLVEMENT

TECHNOLOGY REVIEW COMMITTEE

Corning's team will be involved in our selection and review committee to gauge the commercial viability of projects.

MENTORSHIP

Corning's R&D and business leadership will work with ventures accepted into the accelerator, participating in fireside chats, one-on-one office hours, and other showcases.

CORNING EQUIPMENT

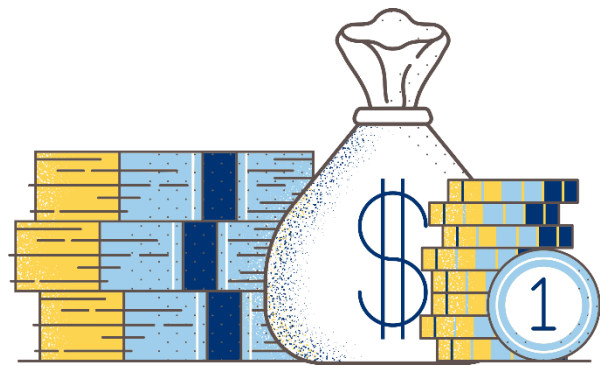
Corning will provide their equipment and resources to selected ventures, when possible. This may include providing samples, prototypes or processing that is rare or very expensive in a variety of areas.

FUNDING

All prize funding will be provided by the Corning team and administered by Columbia. The Corning team will review our ventures' progress and have the opportunity to work with high-potential team(s) beyond the accelerator's conclusion.

OUR PROGRAM

Cohorts of 2-3 promising technologies go through a 12-week program where they receive:



Seed funding from Corning Incorporated: All selected projects receive \$2k, while finalist receives \$50k



Access to extensive mentor network with deep technical and entrepreneurial experience



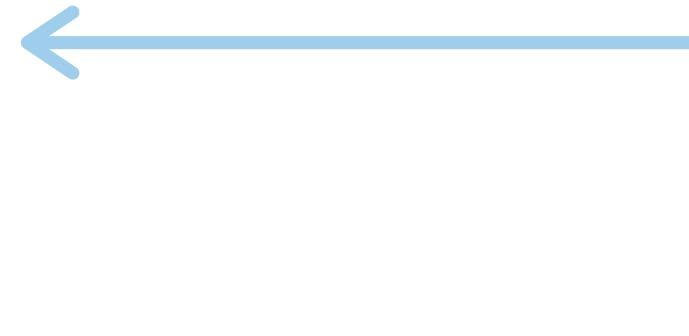
Connections to the Corning's research and development leadership and cutting-edge equipment



Lean LaunchPad and entrepreneurial sessions specific to advanced materials

OUR ECOSYSTEM

Columbia Materials Research
Science and Engineering Center
(MRSEC)



Columbia Engineering
Columbia Arts and Sciences



**COLUMBIA-CORNING ADVANCED
MATERIALS ACCELERATOR**



CORNING

Columbia Nano Initiative
Columbia Quantum Initiative
Columbia Data Science Institute



WHO WE ARE LOOKING FOR

EARLY STAGE ADVANCED MATERIALS TECHNOLOGIES AND STARTUPS

We're searching for a broad range of early-stage translational projects, from research to pre-seed startups.

AFFILIATED WITH COLUMBIA UNIVERSITY

One of the team members must be a faculty, student, fellow, or staff member at Columbia University. Eligibility may expand in the future.

COMMIT TO PERIODIC ENTREPRENEURIAL SESSIONS

Up to 5 sessions during the spring semester, including meetings and mentor conversations with Corning and fellow teams, and periodic networking events.

Entrepreneurial sessions are optional but encouraged.

FOCUS AREAS

MATERIALS FOR QUANTUM COMPUTING

Application areas include new technologies for quantum memory, quantum communication.

CERAMIC MATERIALS

Application areas include RF electronics, energy storage, and filtration of gas and liquids.

MATERIALS, EQUIPMENT, AND SYSTEMS FOR LIFE SCIENCES

Application areas include cell/gene therapy, cell and organoid culture technologies, sorting and separations technology, lab automation technology, imaging, diagnostics, microfluidics, high throughput synthesis of DNA/RNA.

ADVANCED COATINGS AND PAINTS

Applications include advanced windows, bio-active coatings, novel optical coatings, super hydro and oleophobic

BATTERY TECHNOLOGIES

Applications areas include solid state batteries, silicon anode technologies, flexible batteries, novel energy storage concepts.

PHOTONIC AND DISPLAY TECHNOLOGY

Application areas include LED/OLED displays, thin films for electronics and optoelectronics, microLED technologies, holographic and light field technologies, flexible displays, transparent displays, near eye displays, novel backplanes and driving electronics.

ADDITIONAL FOCUS AREAS

- Optical communications
- 1D-2D-3D polymer
- Phase change materials
- Roll-to-roll processing of novel systems
- mmwave and terahertz technologies
- Y-doped crystals
- Novel catalysts



PROPOSAL: WHAT WE'RE LOOKING FOR

TEAM

What is your team composition and expertise?

TECHNOLOGY

Provide a non-confidential overview of your technology and current state of its development.

PROBLEM

What problem are you solving and what markets are you targeting?

COMMITMENT

Can your team participate in 2-5 sessions (1-4 hours per session) during the spring semester?

The application should take under 1 hour to complete.

TIMELINE & FUNDING



FREQUENTLY ASKED QUESTIONS

HOW LONG WILL IT TAKE TO COMPLETE THE APPLICATION?

The application should take less than an hour to complete.

CAN MY TEAM INCLUDE MEMBERS FROM OTHER INSTITUTIONS?

Yes! We only require that at least one team member be a faculty, student, fellow, or staff member at Columbia University.

HOW MANY SESSIONS TO MY TEAM HAVE TO ATTEND?

There are 5 optional entrepreneurial sessions throughout the semester. Attending the Kickoff and Demo Day events is required.

WHAT MATERIALS DOES CORNING SUPPLY?

Corning is offering both their resources and equipment to select ventures. For example, Corning may provide samples, prototypes or processing that is rare or very expensive in a variety of areas.

There will be an optional information session on Thursday, February 3rd, 2022 in which Corning and Columbia representatives will field questions about the program and application process.

CONTACT US

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<http://bit.ly/CU-CorningAccelerator>

Applications are due Monday, February 14, 2022

