



materialize

NEW YORK

A Material Impact & Columbia Technology Ventures
Deep Tech Accelerator

2023-2024

Materialize New York Accelerator: Pre-Proposal Instructions

Material Impact (MI) is partnering with Columbia Technology Ventures and the Lab-to-Market Accelerator Network to advance development of novel technologies in the New York City area through a one-of-a-kind innovation accelerator: **Materialize New York**. MI is a premier, hands-on venture fund that builds deep tech companies powered by material-based approaches. It strives to solve meaningful engineering challenges in the areas of Sustainability, Data Storage, Robotics & AI/AR, Food & Water, Transportation & Mobility, and Underrepresented Healthcare. MI recognizes the importance of providing a supportive ecosystem and takes an active role in helping founders reach commercial success. Participants in this accelerator will receive curated access to training and mentorship from experienced entrepreneurs and operators to grow potential ideas into a viable start-up.

Selected applicants will be invited to attend a Materialize New York Boot Camp consisting of interactive, hybrid learning sessions and office hours. All Boot Camp sessions, unless otherwise noted, will take place on Wednesdays at 12-1:30 PM between Nov 2023 – Mar 2024. Participants will work alongside the MI team to de-risk their innovation from a business perspective (customer identification, product-market fit, market size, feasible milestones, etc). In collaboration with Columbia Business School, selected Venture Fellows (MBA or Executive MBA students) will also work alongside participating teams during the Boot Camp and serve as an additional resource. The aim of the program is to prepare the teams for their startup journey by putting together the building blocks of a strong foundation and leading to the creation of a startup pitch deck. Further requirements and format details for the startup pitch and other assignments will be provided once the Boot Camp has begun.

The goal of this accelerator is to move technologies from the academic lab towards start-up formation with MI's guidance and commitment towards human impact. At the conclusion of the program, select team(s) will receive a seed investment from Material Impact towards the creation and launch of their start-up. MI will receive pre-determined rights in any start-up selected for seed investment. A copy of the terms required by Material Impact will be shared with program applicants and awardees upon request. Please direct any inquiries regarding the terms directly to Material Impact at materialize@materialimpact.com.

ELIGIBILITY:

- 1) The proposed startup must have **Columbia Intellectual Property (IP)**.
- 2) Applicants must have a team member with a full-time faculty appointment at Columbia, but teams should be led by entrepreneurially minded **graduate students (PhD, MBA, MA), post-doctorate trainees, or undergraduate students** with permission from the principal investigators (PIs). Teams of two or more students/trainees are highly encouraged. Team leaders must have technical expertise regarding their technology.
- 3) Projects must focus on translating novel technology in the areas of interest (listed below) to the market.

AREAS OF INTEREST:

Deep technology innovations with a strong competitive advantage geared towards addressing large enduring needs in areas, including but not limited to:

- [Biomanufacturing and Sustainable Products](#)
[To minimize environmental impact, utilize biomaterials and feed the circular economy]
- [Sustainable Food and Water](#)
[Breakthroughs in access to healthy, safe and affordable food and water sources]
- [Data Storage and Security](#)
[Technologies to ensure the resilience and protection of data and information]
- [Robotics, AI, and Augmented Reality](#)
[Innovations that augment the capabilities of industry and individuals]
- [Transportation and Mobility](#)
[Novel ways to transport and protect people, goods and technologies]
- [Underrepresented Healthcare](#)
[Consumer-driven, democratized and distributed health information]

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Special consideration will be given for projects that apply a novel material or technique to these issues. Please note that **therapeutics and pure software are not in scope**.

FUNDING:

At the conclusion of the program, select team(s) will receive a **seed investment** from Material Impact towards the creation and launch of their start-up based on the program's pre-agreed terms.

PRE-PROPOSAL DIRECTIONS:

Pre-proposals are due **by 11:59 PM ET on Wednesday, October 11, 2023**. Pre-proposals should be completed and submitted through an online form found at MaterializeNY.submittable.com.

Please allow time to create a Submittable account if you do not already have one.

1) Areas that will be covered on the online form include:

- Project Title
- Scientific Abstract (200 words)
This non-confidential section should summarize the scientific area of focus and current stage of development.
- Technology Enabled Products (200 words)
This section should provide a clear, concise statement describing the products or types of products the proposed academic spin-out will be able to produce by leveraging the technological innovation described above.
- Entrepreneurial Lead and Team (300 words)
- Primary MI Area of Interest
Biomanufacturing & Sustainable Products, Sustainable Food & Water, Data Storage, Robotics & AI/AR , Transportation & Mobility, Underrepresented Healthcare
- Problem (200 words)
What is the problem that you are trying to solve?
- Customer (200 words)
Describe your start-up's ideal target customer and how buying your product(s) will uniquely address the problem identified above.
- Market & Landscape (200 words)
Describe the market landscape/market vertical where your product will have the most impact. What other similar products/services already exist in this space?
- Competitive Advantage (200 words)
What makes your product/service stand out compared to others in this space?
- Timeline (200 words)
What is needed to successfully spin-out? Provide a general timeline for what the next year would look like for this proposed start-up.
- Background Intellectual Property
Provide any IP, including disclosures to Columbia Technology Ventures.

2) Complete the online form for each section and submit by 11:59 PM ET on Wednesday, October 11, 2023 to: MaterializeNY.submittable.com

REVIEW PROCESS:

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Proposed projects will be reviewed by Columbia Technology Ventures to determine eligibility and then reviewed by Material Impact to determine fit within the field/area of interest. Each application will be judged based on translational and commercialization potential, scientific and technical merit, and feasibility.

NOTE:

The application will be non-confidential; we encourage you to discuss the application and project with your technology licensing officer prior to applying. If you do not have a licensing officer, please reach out to [Columbia Technology Ventures](#).