

FuzeHub Jeff Lawrence Innovation Fund Microelectronics Innovation Challenge In Collaboration with NORDTECH

2024 Application Questions

Applications are submitted online at <https://fuzehub.smapply.io/> This document is for reference only

While we will not make these answers public, do not disclose any information that could hinder the pursuit of patents or be otherwise considered confidential.

1) Provide a full but concise project description. Explain the concept and context of the project, including a high-level overview of the work to be executed and the expected goals.

- What is the problem being addressed?
- How are you addressing it, and how is this solution better than the existing alternatives?
- What is/are the goal(s) of this project?
- While the use of technical/scientific terms is expected, be sure to use terminology that is commonly understood (e.g., if a term is very industry-specific, make sure to define it).
- By the time the reviewers finish reading this answer, they should be able to understand what it is that you are proposing to do.

2) (Innovation Track only) What makes your proposed project or technology innovative?

- Explain the key aspects that make your technology revolutionary and disruptive.
- What are the breakthroughs you think your team can achieve that others in the industry have not yet accomplished?
- How does this technology integrate with existing systems? What changes do suppliers, manufacturers, purchasers and/or end users need to implement in their processes in order to assimilate your product? You may include the product workflow.

(Supply Chain Developments Track only) What supply chain-related metrics does your project address (reduced lead-time, re-shoring imported components, improved “just in time” delivery, etc.)? What risks currently facing the microelectronics supply chain will your project reduce or mitigate?

- Explain how your project strengthens the microelectronics industry within New York, and within the United States as a whole.
- Are there future issues facing the microelectronics market or industry that your project has the potential to address?
- Does your project contribute to sustainable practices within the microelectronics industry?

3) Explain how your project strengthens the microelectronics industry within New York, and within the United States as a whole.

- How does your technology contribute to solving real-world problems faced by customers, or by New York’s microelectronics industry?
- Are there future issues facing the microelectronics market or industry that your technology has the potential to address?
- Does your technology contribute to sustainable practices within the microelectronics industry?
- Does your company provide critical components or services that are essential for defense/aerospace systems and platforms?
- How does your project ensure the reliable and timely supply of these components to meet the needs of defense/aerospace customers?

4) Describe the economic impacts of the project for years 1 through 3, such as job creation, increased sales, cost savings, increased attraction for new investments, new markets, etc.

- Be specific, quantify and qualify. “Will immediately create one part-time job, and 2 more full-time jobs within a year of project completion” is significantly better than “will create jobs”.
- Give a timeline for each expected economic impact (e.g., “\$50,000 in new sales within the first year, \$575,000 in added new sales by the end of year 2”).
- **Include data to support your claims.**

5) List all personnel actively contributing to this project.

- For each team member, aim to include:
 - Name
 - Organization ○ Position ○ Role in the project ○ Relevant qualifications, skills, degrees, experience, awards, etc. ○ Percentage of their workload committed to this project.
- You may include links to LinkedIn or other professional profile links, but do not rely on access to those links to answer this question.
- Are there any required skills/resources currently lacking from the team? If yes, explain how you plan on addressing it.

6) Describe the specific tasks that will be accomplished under this award.

- Provide a roadmap for the project, and highlight the FuzeHub-sponsored part of the project (not to exceed 12 months). Include major milestones and deliverables for each milestone.
- Who will be doing what and for how long? And where?
- How are the team’s skills and experiences relevant to the required work?
- Does the team have access to the required resources (facility, equipment, software, additional funding, etc.) to complete the work?
- Make sure to link the activities in the scope of work to the costs in the budget.

Posted/Modified

November 6, 2024. Please check back to <https://fuzehub.com/innovation-challenge/> for updates.