

## Supplier Scouting Opportunity 2023-019

**Item to be scouted:** metal coating process for carboxymethylcellulose fiber

**Item description:**

Center has a client trying to identify a suitable US facility that can accommodate pilot scale up manufacturing services related to a metal coating process for carboxymethylcellulose fiber.

**Technical Information**

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**Supplier Information**

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**Type of supplier being sought:** Manufacturer

**Reason for scouting submission:** Company have not been able to find a domestic company that can do this.

**Summary of technical specifications and performance requirements**

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**Describe the manufacturing processes (elaborate to provide as much detail as possible):** The fiber treatment process requires the use of metal salts and a mixed solvent system of water and volatile organics (ethanol) due to the fiber type being soluble/swellable in 100% water. Typical liquid ratio of the process is on the order of 1:10 (w/v) that may utilize up to 30 L of ethanol in a single 5 kg batch. Some process optimization will be needed and the facility would work with the sponsor's scientists/engineers for optimization. Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream. For initial stages, 50-100 kg is the total amount needed and can be done in smaller batch sizes (e.g., 5 kg). Ideally this pilot material will be available before June 2023. I

**Provide dimensions / size / tolerances / performance specifications for the**

**item:** Typical liquid ratio of the process is on the order of 1:10 (w/v) that may utilize up to 30 L of ethanol in a single 5 kg batch. Some process optimization will be needed and the facility would work with the sponsor's scientists/engineers for optimization. Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream.

**List required materials needed to make the product, including materials of product components:** See above descriptions

**Are there applicable certification requirements?:** No

**Are there applicable regulations?:** No

**Are there any other standards, requirements, etc.?:** No

**Business Information**

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**Volume and pricing**

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**Estimated potential business volume:** Facility and equipment should be capable of producing up to 50-100 kg of metal-treated fiber and be able to handle the hazardous waste stream. For initial stages, 50-100 kg is the total amount needed and can be done in smaller batch sizes (e.g., 5 kg)

**Estimated target price / unit cost information (if unavailable explain):** Company is focused on looking for manufacturer that can produce domestically

**Delivery requirements**  
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**When is it needed by?:** Ideally this pilot material will be available before June 2023

**Describe packaging requirements:** Flexible

**Where will this item be shipped?:** Ithaca, NY

**Additional Information**  
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**Agree (click to read agreement):** Yes