

# Paper Science & Technology Exhibit Image Contest

November 15, 2022 to Jan 15, 2023



The Robert C. Williams Museum of Papermaking in the Renewable Bioproducts Institute at Georgia Tech is opening a paper science technology exhibit in Spring 2023. To showcase how studying biobased materials, chemistries, and products at the micro and nanoscales can create large-scale innovation, the RCW Museum of Papermaking is holding an image contest open to all researchers.

The winning images will be on display in the paper science and technology exhibit for at least 1 year. Winners will be invited to attend the opening reception of the new exhibit.

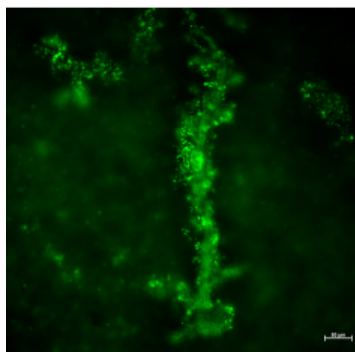
## Requirements

- ▶ [Fill out the Google Form](https://tinyurl.com/papercontest)  
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- ▶ Image of at least 2400 by 3000 pixels or 2400 by 2400 pixels to be able to print 8" x 10" or 8" x 8"
- ▶ File size must be between 5 MB and 20 MB
- ▶ If available, a high quality photo of sample
- ▶ Max 3 images per person

## Guidelines

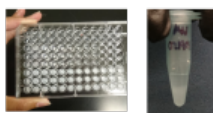
- ▶ Only images containing bioderived components/biomaterials/bioproducts or are related to papermaking
- ▶ Images may be taken from TEM/SEM/light microscopy/3D imaging
- ▶ Images must be original work and allowed to be displayed. Use by the Paper Museum, RBI, or Georgia Tech does not infringe on copyright with upcoming or already published works.
- ▶ Contestants must agree to allow reproduction for the museum website, museum guides, or for educational purposes. The winning contestants are encouraged to submit samples to be displayed with image.
- ▶ Samples may be provided after selection of winning images and should not be proprietary.

### EXAMPLE ENTRY AND DISPLAY



Title: Fluorescently labelled polyelectrolyte complexes on cellulose nanofibers in suspension  
Researcher: Nasreen Khan, PhD  
Field: Materials Science and Engineering  
Institution: Georgia Institute of Technology

#### Samples in the macroscale:



#### What are you looking at?

Cellulose nanofiber bundle with green fluorescently labelled charged polymers attached to them in water.

#### What does it teach us?

How mixing charged polymers in different ways influence how much they interact with cellulose fibers in liquid

#### Why is this technique useful?

Imaging in suspension gives more insight on the interactions between the fibers and additives when they are still wet

#### Application

Cellulose nanofiber-containing products like paper and packaging

#### Big picture goal:

To improve sustainability of the papermaking process by increasing the amount of water drained before the energy-intensive drying step



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