GLOUCESTER BIOTECHNOLOGY ACADEMY



Scientists at Gloucester Biotechnology Academy used a sample of *E. Coli* bacteria to write "It Glows Green!" on a nutrient rich agar plate. The bacteria contained a gene from a jellyfish that produces green fluorescent protein (GFP), which glows under ultraviolet light!

Are you a middle- or high-school student (aged 13-18), interested in exploring a cool science opportunity in Gloucester this summer?

Join us at **It Glows Green!,** a one-week program at Gloucester Biotechnology Academy that will teach you how to make your own glow-in-the-dark bacteria and test its survival in the wild!

You will learn:

- Cutting-edge techniques and technology
- The scientific method
- Critical thinking

Immerse yourself in an authentic and hands-on scientific investigation! Sign up today!

Scan to register!

Summer 2025 Dates:

- **July 7-11**
  (M-Th: 9am-2pm; Fri: 9am-12pm)
- **July 14-18**
  (M-Th: 9am-2pm; Fri: 9am-12pm)

Tuition

- $425 for one student or $375 per sibling. Needs-based financial aid available for those who qualify.
- Tuition covers equipment, consumables, lab coats, goggles, gloves and lab manuals.
- For more information, contact Hannah Lister at hannah.lister@gmgi.org.

summer STEM AT THE ACADEMY







It Glows Green!

Information for Parents/Guardians

Gloucester Biotechnology Academy's **It Glows Green!** summer program is geared towards middle and high school students (ages 13-18).

Program participants will be briefed on a fictitious case involving a biotech company that is allowing a glowing green liquid to leak into a local reservoir. The CEO explains that the company produces genetically modified bacteria containing a jellyfish protein that glows green in UV light. She claims however, that the bacteria cannot survive outside a laboratory environment, adding to the mystery of the leaking liquid.

This summer, **It Glows Green!** participants will have an opportunity to make their own glow-in-the-dark bacteria and test its survival in the wild!

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- July 7-11 (M-Th: 9am-2pm; Fri: 9am-12pm)
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Tuition

- $425 for one student or $375 per sibling.
- Tuition covers equipment, consumables, lab coats, goggles, gloves and lab manuals.
- Students must bring a packed lunch as it is not included.
- Needs-based financial aid available for those who qualify. For more information, contact Hannah Lister at hannah.lister@gmgi.org.

Summer STEM at the Academy

- One-week programs for students, ages 13-18, interested in experiencing hands-on science in state-of-the-art teaching labs at Gloucester Biotechnology Academy.
- Using cutting-edge techniques and technology, the scientific method, and critical thinking, students are immersed in authentic science investigations.
- Programs are facilitated by Gloucester Biotechnology Academy staff, and each student is provided with ample guidance and support in these real-world investigations.
- The curriculum is designed to meet all student needs. **No math or science experience needed to participate.**
- **Questions?** Email Hannah Lister at hannah.lister@gmgi.org
- **Ready to register?** Visit us online at gmgi.org/education/summer-stem-enrichment/

Gloucester Biotechnology Academy is the vibrant educational entity of Gloucester Marine Genomics Institute, a nonprofit that addresses critical challenges facing our oceans, human health and the environment through innovative scientific research and education.

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summer STEM AT THE ACADEMY