

# BEYOND BENIGN AND THE GREEN CHEMISTRY COMMITMENT (GCC) PROGRAM



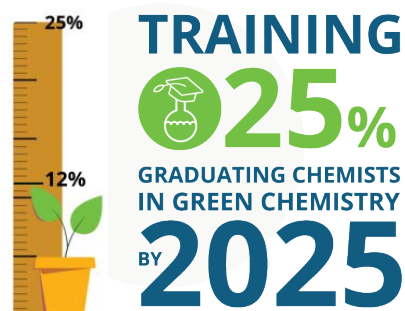
## The Story of the GCC

The GCC program was created in 2013 with Higher Education faculty members as a framework to unite the global green chemistry community. The GCC goal is to infuse green chemistry into higher education and give scientists the required skills to design processes and products less hazardous to human health and the environment.



## Reasons to Sign the GCC

- Voluntary, flexible, and progressive program.
- Broad network of collaboration, support, and inspiration.
- Access to jobs/funding opportunities and projects.
- Ability to track progress on learning and research objectives.
- Drive systemic change in chemistry education.
- Being part of a diverse and welcoming community to ensure **green chemistry is accessible to all.**



12% of graduating chemists in the U.S. come from GCC signing institutions yearly

## GCC Learning Objectives

The education journey varies by institution. Our GCC Signers are united in the program towards achieving the following Student Learning Objectives:



Theory



Laboratory Skills



Toxicology



Application

## How to Sign the GCC



**STEP 1. Share this document with your program and colleagues!** Just like you, they now can learn everything about the GCC!



**STEP 2. Download our Pledge Form!** Have it signed by the Chemistry Program Chair (or equivalent), along with one administrator.



**STEP 3. Download our Contact Form!** Fill it with the information of your institution's primary contact person(s) - this can be you!



**STEP 4. E-mail the forms to back to us!** We will create your institution's profile on our website and welcome you and your colleagues to the GCC program.

We invite your institution to join the GCC program. Chemistry programs do not have to be perfect in their implementation of green chemistry to sign up, they just need to commit to continual improvement.

After signing the GCC, all we ask is a small, online annual survey to learn about your institution's work in green chemistry, understand future goals, and see how we can support you to achieve them.

**98%**

of our GCC Signers implement green chemistry into lab courses.

# Training the Next Generation for Sustainable Action

- Students with green chemistry skills entering industrial careers have **tremendous impact on addressing hazards** at the design stage of a product.
- As the global chemicals market **doubles by 2030**, scientists with green chemistry skills are **essential** in achieving **sound chemicals management**.
- General and organic chemistry lectures and labs are the most common courses to implement green chemistry.

# 5%

increase in jobs for chemists specialized in green chemistry through 2029.\*

*\*Where the Green Jobs Grow, U.S. Department of Labor, April 2021.*

## Supported by Industry

With the right skills, chemists can design solutions for a sustainable future at the molecular level. Our industry partners believe in and support the GCC program as the foundation for a chemistry workforce prepared to address our societal and environmental challenges.

**MILLIPORE SIGMA**

**3M**

**Biogen**

**DOW**



*Now more than ever, the role green chemistry will play in solving the challenges of today and tomorrow is clear. We need students that are prepared to enter the workforce with the tools necessary to not only solve technical challenges but also address environmental impact simultaneously."*

*- Jeffrey Whitford, Head of Sustainability & Social Business Innovation and Branding Life Science at MilliporeSigma.*



*The encouragement I've received from the GCC community has built my confidence to move forward with the project. I have found my feet and my voice."*

*- Dr. Andrea Oseolorun, Assistant Professor, Prairie View A&M University*



## Join the GCC Community



Follow the QR code to learn more about the GCC, check our GCC Annual Report, and download the forms to become a GCC Signer!

## Questions?

Reach out to submit your GCC forms and ask any questions about the program!

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Co-founded in 2007 by Dr. John Warner and Dr. Amy Cannon, Beyond Benign, a 501(c)3 non-profit, envisions a world where the chemical building blocks of products used every day are healthy and safe for all. Beyond Benign's mission is to foster a green chemistry community that empowers educators to transform chemistry education for a sustainable future. By providing educators with tools, training and a peer support network, educators are equipped to train the next generation of scientists and citizens with the skills and knowledge to create and choose products that are safe for human health and the environment.

