

## Bee a ChemE Overview

Introducing Bee a ChemE, a national awareness campaign from AIChE designed to ignite the imaginations of middle schoolers by introducing them to the wonders and possibilities of a career in chemical engineering. Supported by individual donors and corporate sponsors, we are addressing the STEM skills gap and shaping the future of innovation.



## What is Chemical Engineering?

For over a century, chemical engineers (aka a ChemE) have been improving the world. From the development of smaller, faster computer chips to innovations in recycling, treating disease, cleaning water, and generating energy, their work touches every aspect of our lives.

Today, these science and engineering problem solvers are at the forefront of breakthroughs in medicine, biotechnology, microelectronics, advanced materials, energy, consumer products, manufacturing, and environmental solutions. They're also leading the way with many starting their own innovative companies.

Thanks to our partners for their support in inspiring the next generation to engineer the future and explore the possibilities of a career in chemical engineering.

### Corporate Sponsors



### Individual Donors

Dan & Ellen Coombs

Nance Dicciani



# Inspiring the Next Generation to Engineer the Future

**Get involved –  
It's unBEElievable the  
support we've received so far:**

Visit [aiche.org/BeeAChemE](http://aiche.org/BeeAChemE) to learn more, become an ambassador, donate, sponsor the program, download resources, or ask us a question.

## What to Study



**Math:** Transition to pre-algebra and introductory algebra, learning basic equations, variables, and problem-solving strategies.



**Science:** Deepen understanding of physical and life sciences, covering topics like atoms, molecules, chemical reactions, cell biology, and basic physics principles.



**Technology:** Explore introductory coding concepts and age-appropriate software (e.g., Scratch, Python) to understand computational thinking.

## Activities



Join a school science club or team and participate in science fairs.



Take part in STEM challenges, competitions, or after-school programs focused on problem-solving.



Develop coding and programming skills by working on projects.



Seek opportunities to meet professionals in science and technology fields.



Explore STEM modules on AIChE's K-12 page.

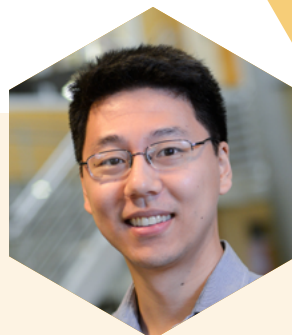
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## ChemE Fields, Jobs and Average Salary

There are numerous exciting jobs open to chemical engineers in almost any field that interests you. The median annual wage for chemical engineers was \$106,260 in May 2022.

Popular fields include:

- Data & AI Engineering
- Process Engineering
- Environmental Engineering
- Product Development Engineering
- Food Process Engineering
- Biopharmaceutical Engineering



### Biomedical Pioneer

#### Albert Keung

**Hometown:** Cary, North Carolina

**Education:** Stanford University

**Major:** Chemical Engineering

**Occupation:** Entrepreneur; Associate Professor, North Carolina State University

## Get the buzz on some of our ChemEs...



### Intergalactic Adventurer

#### Joan Melendez Misner

**Hometown:** Orlando, Florida

**Education:** University at Maryland, Towson University

**Major:** Chemical Engineering & Chemistry

**Occupation:** Aerospace Integration Engineer, NASA



## AIChE K-12 STEM Ambassador Program

This program offers K-12 students a personal perspective on chemical engineering by bringing undergraduate ambassadors from AIChE Student Chapters into the classroom, particularly in traditionally underserved communities. Ambassadors share their experiences and knowledge, inspiring students to explore STEM fields and chemical engineering.