

# BIOMEDICAL ENGINEERING

Official Newsletter of the Community & Student Engagement Committee



## MENTOR-MENTEE RELATIONSHIPS

### WHY SHOULD I SET ASIDE TIME TO BE A MENTOR?

- Develop leadership & communication skills.
- Give back to the community & inspire.
- Add to your CV.
- Solidify your own knowledge.
- Expand your network.

## EVENTS

### SUPPORTING A GROWING & DYNAMIC TEAM

Sep 24, 5-6:30pm  
@ McMillon Innovation Studio

Learn about the effective mentor, manager, and leader strategies that support growing and dynamic entrepreneurial and innovative teams.

### EMPOWERED WORKSHOP: GETTING PUBLISHED, THE BASICS

Oct 2, 3-4pm @ PEAH 307



Empowering future scientists: Exploring How Mentors Guide Students to Write and Publish Scientific Papers

Mentor-mentee relationships in academia: insights toward a fulfilling career

Mentoring Graduate Students: A Study on Academic Rejection, the Pressure to Publish, and Career Paths

How to Succeed in Graduate School: A Guide for Students and Advisors

Value of Biomedical Research

12 Tips for Surviving and Thriving in Grad School

**READ MORE ABOUT MENTORSHIP IN OUR SUGGESTED ARTICLES** [\(click for access\)](#)



## KID OF THE YEAR, HEMAN BEKELE

At just 14 years old, Heman Bekele was named TIME's Kid of the Year for his groundbreaking work in developing a low-cost cancer treatment. His innovative approach and passion for science show how younger generations are not only interested in solving global challenges but are already making incredible contributions to the field of biomedical research.

### How We Can Help:

As graduate students in a leading biomedical engineering department, we have the opportunity to mentor and inspire young scientists like Heman.



Read the full article [HERE](#)



# EMPOWERING FUTURE SCIENTISTS: MENTORING HIGH SCHOOL RESEARCHERS

## Why do high schoolers want to reserach with us?

This can set students apart in college applications, showcasing their communication, initiative, and problem-solving skills. These experiences highlight curiosity and preparedness, giving them a competitive edge for top universities.

## Who is working in our department?

### Dr. Leonard Harris's Lab

Ramcharan Chitturi & Anishka Nagarimadugu  
Bentonville High School  
Research: computational modeling of tumor-induced bone disease

### Simra Rana

Haas Hall Academy  
Research: Fanconi anemia DNA damage repair pathway

### Dr. Chris Nelson's Lab

Brooklyn Bates & William Zeng  
Bentonville High School  
Research: CRISPR gene regulation and direct RNA sequencing

### Dr. Raj Rao's Lab

Rohan Singh  
Now at Columbia University  
Research: machine learning and glucose monitoring (published in BioRxiv)

### Dr. Kartik Balachandran's Lab

Hemali Gauri  
Now at Stanford, Bioengienering  
Research: engineering a heart valve-on-chip (several publications, posters and a patent)

Our BMEG department is proud to support local high school students.

By accepting high school students into our research labs, they to gain hands-on experience while working closely with graduate mentors to develop skills to support their future academic and career goals.

“My experience in the lab helped me apply curricular knowledge and envision my future as a medical researcher. The mentors were instrumental in my growth as a scientist and person, inspiring me to pursue bioengineering at Stanford.”

*Hemali Gauri*

High School Reseracher,  
Mechanobiology & Soft Materials Laboratory



“Mentoring high school students has been a rewarding experience. It's incredible to see how quickly they grasp complex concepts and their enthusiasm for science. I'm confident that the skills they are gaining now will set them up for success in their future academic careers.”



*Katherine  
Miranda-Munoz*

Graduate Student, Polymeric Biomaterials Lab



**INTERESTED IN MENTORING A HIGH SCHOOLER? TALK WITH YOUR ADVISOR ABOUT THESE SUCCESS STORIES!**

## MENTORSHIP EXCELLENCE: TIPS FOR GRADUATE LEADERS

UNLOCK THE POTENTIAL OF YOUR MENTEES WITH THESE STRATEGIES

- Initiate mentorships by clearly defining goals & expectations.
- Establish open & honest communication.
- Dedicate time & undivided attention regularly to your mentee.
- Facilitate access to networks & opportunities that propel professional growth.
- Tailor advice to each individual.
- Cultivate a culture of innovation & self-reliance by encouraging mentee to take initiative in their projects and think critically.
- Support beyond science: provide emotional & career support.
- Demonstrate integrity, resilience, & dedication in your own career.
- Celebrate success & promote growth.