



FOOTHILL COLLEGE

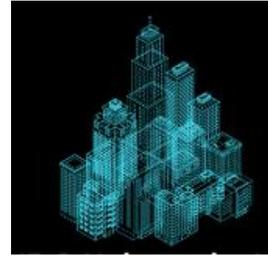


EMERGING TECHNOLOGIES INSTITUTE



ETI *Vision, Mission, Scope*

<https://foothill.edu/eti>



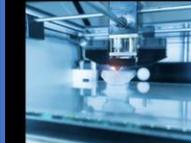
- ***Vision:*** Establish an Emerging Technologies group of Labs for FH students, faculty, and staff to explore new technologies, and build student technology competencies.
- ***Scope:*** Monitor emerging technologies impacting education, train on and test these technologies in our labs, and make recommendations

- ***Mission:*** To continue Foothill's legacy of leadership in educational technology by exploring new and emerging technologies which lend added value to teaching and learning.

Emerging
Technologies
Institute



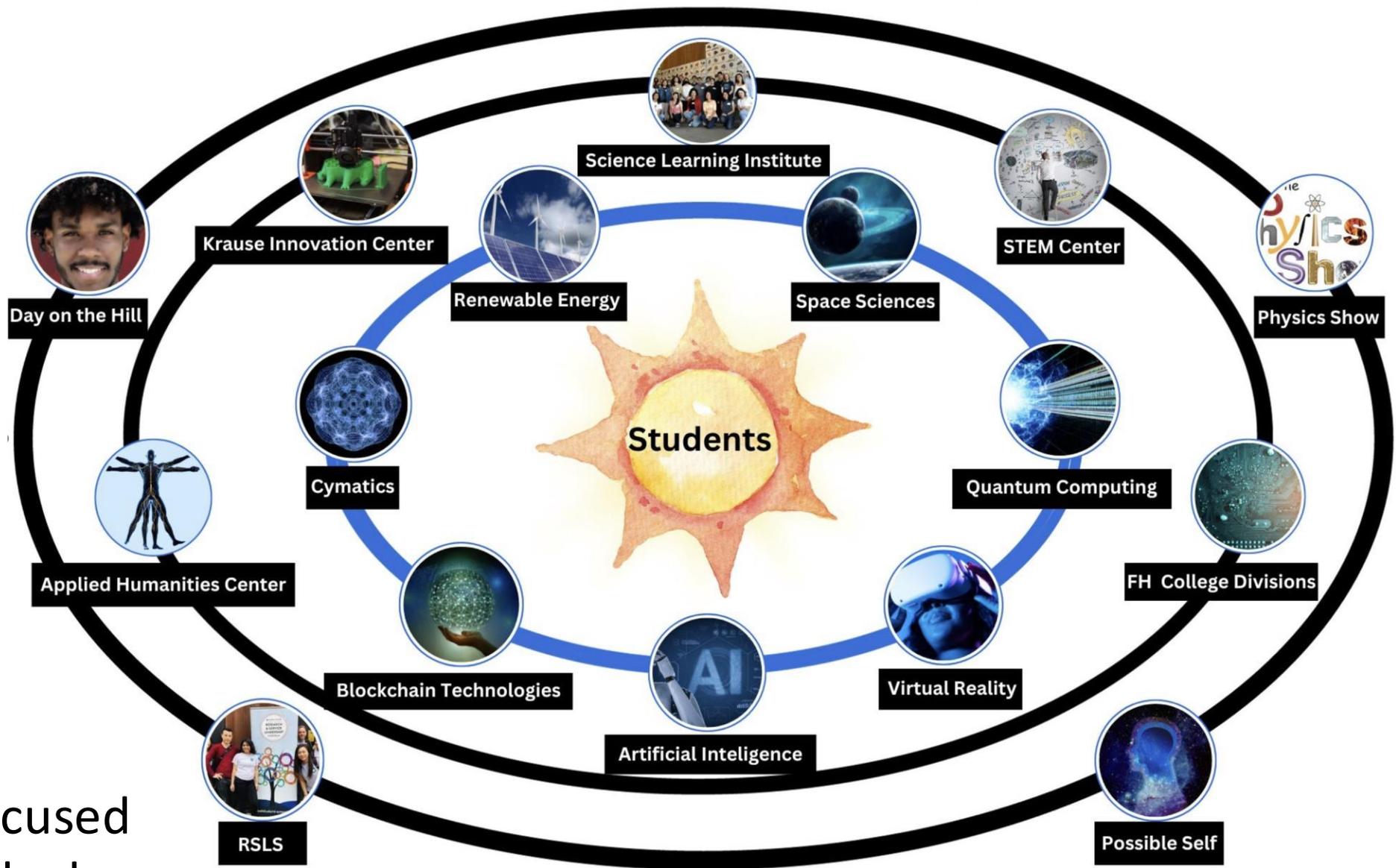
ETI Ecosystem: 9 Technologies, 10 Labs

 AI Lab	 Virtual Reality Lab	 Quantum Technologies Lab	 Space Sciences & Technologies Lab	 Renewable Energy Technologies Lab	 Life Science Lab	 Cybersecurity & Cloud Lab	 Blockchain Technologies Lab	 Cymatics Lab	 Prototype Lab	 ETI Ecosystem
Artificial Intelligence	Virtual Reality	Quantum Technologies	Space Sciences	Energy & Sustainability	Life Sciences	CyberSec & Cloud	Blockchain (Web 3.0)	Cymatics	Prototype Project Lab	ETI Ecosystem

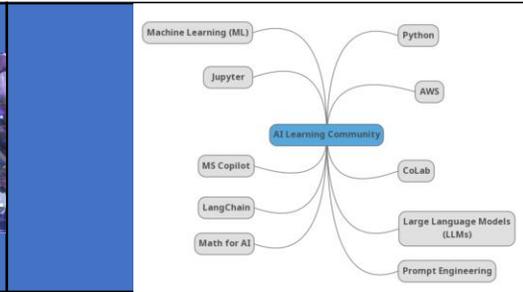
- Research, explore, test and deploy emerging technologies
- Student-centered, provide in-house internships to students
- STEM Student Club participation
- Interdisciplinary, pervasive impact across all disciplines
- Partnerships with academia, industry, and government organizations
- Promote equity, diversity, and inclusion
- Encourage participation from under-served student communities

Emerging Technologies Institute Universe

- Student-centered
- Equity-guided



- Technology-based
- Interdisciplinary-focused
- Ecosystem-Networked



Explore

Identify

Share

- Consists of students, faculty, staff, administrators, campus community members, scholars from other academic institutions, and district employees
- Discuss evolving curriculum, expanding/new programs, academic integrity and policies, tools for productivity, tools for learning
- Collaborate for PD for students and employees
- Meet twice per month

Virtual Reality (VR) Learning Community



- Campus-wide, District-wide, Community-wide
- 1st of 9 technologies to initiate the Emerging Technologies Institute
- VR Lab active and established
- Open to students, staff, faculty, and the community
- VR curriculum pilots in Astronomy, Chemistry, Biology, Cinematography
- Provide VR technology guidance to the College Tech Committee
- Explore immersive, semi-immersive, and non-immersive VR hw & sw

Cymatics Lab

Cymatics Demonstrations With Chladni Plates - ETI



<https://www.youtube.com/watch?v=oxUFFgQIGQ&t=484s>

Rocketry Student Club



ETI Internships: Tools for Transition and Work (TTW)



Learning



Teamwork

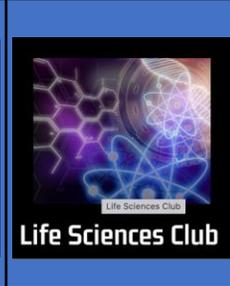
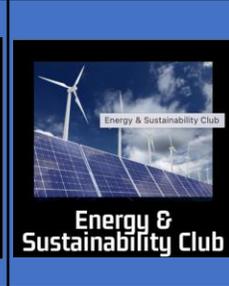
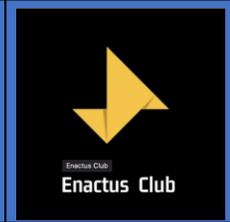
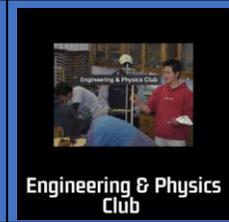
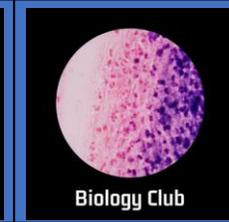
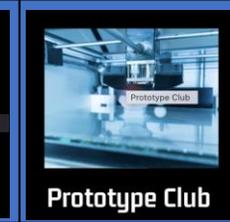


Achievement



- Partnership: ETI + Tools for Transition and Work (TTW)
- Focus on emerging technologies
- Held in ETI Lab environment
- Universal Design Pedagogy
- Project-based learning
- 1 Student Lab Assistant per 2 internship students
- Hands-on experientials

ETI STEM Student Clubs: Interdisciplinary, Collaborative

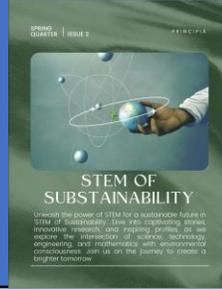
 Data Science & AI Club	 Virtual Reality Club	 Quantum Technologies Club	 Life Sciences Club	 Energy & Sustainability Club	 Audio Visualization & Interpretation Project Club	 Cybersecurity Club	 Blockchain Club	 Rocketry Club	 The Astronomy Club
Artificial Intelligence	Virtual Reality	Quantum Technologies	Life Sciences	Energy & Sustainability	Cymatics	CyberSec & Cloud	Blockchain (Web 3.0)	Space Sciences	Space Sciences
 Women in STEM Club	 Women in Business Club	 Business & Entrepreneurship Club	 Enactus Club	 Engineering & Physics Club	 Math Club	 American Chemical Society Club	 Biology Club	 Geospatial Technology Club	 Prototype Club
Women in STEM	Women in Business	Entrepreneurship	Business Innovation	Engineering & Physics	Math	Chemistry	Biology	Geography	Prototype

- Promote collaboration and teamwork among the STEM student clubs
- Work with the Emerging Technologies Institute
- Provide a platform to participate in project events

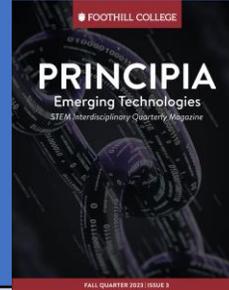
ETI Publications: **STEM** Interdisciplinary Magazine



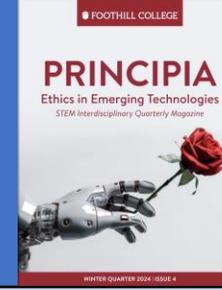
Issue 1 - 2023/Winter



Issue 2 - 2023/Spring



Issue 3 - 2023/Fall



- Student Driven
- Faculty, staff, partner participation
- Campus-wide
- Open to all disciplines
- Focus on emerging technologies
- Impact local, national, and world societies
- Published quarterly

ETI Events and Workshops: STEM, Interdisciplinary



Cymatics

INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI) WORKSHOP

TUESDAY, JAN 30TH
 12:00 - 1:30 PM

Hearthside Lounge, Room 2313 & Zoom

PRESENTED BY:
AYUSH MADHUKAR & THE DATA SCIENCE & AI CLUB

FOOTHILL COLLEGE
ETI
 EMERGING TECHNOLOGIES INSTITUTE

Join us for a **student led discussion** about Artificial Intelligence, popular AI tools, and an exercise in prompt engineering. In-person & on Zoom! Go to our website for the zoom link!

FOOTHILL.EDU/ETI/EVENTS.HTML

Artificial Intelligence

WEB3 & BLOCKCHAIN WORKSHOP

February 21st from 12 - 1:30PM
 Hearthside Lounge 2313 or Via Zoom (link provided upon registration)

Register for the event here!

OUR SPEAKER

MATTHEW A. POLAND
 FOUNDER AND PRINCIPAL OF MAP ADVISING
 21 years of experience of serving diverse populations through workforce development programs.

ABOUT OUR WORKSHOP

LEARN ABOUT WEB3 AND BLOCKCHAIN! Come join us to view a livestream presentation by Matt Poland that's hosted at Hearthstone Lounge room 2313 or join via Zoom!

TOPICS THAT WILL BE DISCUSSED:

- Blockchain, Web3, and Cryptocurrency
- Ethereum blockchain & smart contracts
- New potential work opportunities in Web3

FOR MORE INFORMATION, GO TO: [HTTPS://FOOTHILL.EDU/ETI/EVENTS.HTML](https://foothill.edu/eti/events.html)

Blockchain



Possible Self

- Focus on students
- Intro to AI workshop
- Blockchain/Web3 workshop
- Machine Learning and Neural Networks Workshop
- Possible Self/Day on the Hill

Contacts and QR Codes



Public website: <https://foothill.edu/eti/>

Email: eti@fhda.edu

