Designing the Evolution of an Ergonomist

Camille Major, CHFP Workforce Personal Safety Engineer Human Factors Engineer

January 9, 2019



Big Ideas in the Big Easy

Be a part of the conference where attendees gather from around the world to share best practices with other professionals in ergonomics, healthcare, safety, human resources and risk management.

Applied Ergonomics Conference (AEC) 2019

March 25 – 28 | Hyatt Regency New Orleans

www.iise.org/AEC

Disclaimer

These are the thoughts of Camille Major and do not reflect any other entity that I am affiliated with in the past or current.

Designing the Evolution of an Ergonomist

Has the evolution of an ergonomist occurred by design or happenstance? Meeting business needs can support our personal career goals if we know how to identify our own value metrics and develop a strategy. No longer is our role static and unchanging. Fluid, flexible and adaptable is the new ergonomist of the future. Join us for a dynamic case study in motion.

Human Factors - Ergonomics Engineer

Our goal:

- 1. Keep people safe from getting hurt
- 2. Work Smarter and not Harder
- 3. Improve productivity, quality, safety

How do we do this?

- 1. Make the building or environment safe
- 2. Make the work safe
- 3. Make the work easier to do

And then we check again to make sure we did the right thing and it really works!

We thank our teams for their support and assistance

Introductions

Please select your primary job responsibility:

Industrial ergonomics

Office ergonomics

Safety

Human performance

Health related field

It's more than ergonomics...

My job responsibilities have included the following OR I have been on teams that included the following:

Industrial ergonomics

Office ergonomics

Safety

Human factors

Human performance

Quality

Environmental

Engineering

Lean manufacturing

Six sigma

Project management

Furniture or equipment order and purchase

Medical care

Health fairs

Mindfulness

Emotional assistance / counseling

Physical therapy

Return to work

ADA accommodations

Program development or Strategy development

National locations

International locations

Training and Education

How much control do you feel you have over your career?

On a scale of 1-5

```
1 = NO control at all
```

3 = Some control

5 = I am completely in control

Bureau of Labor Statistics - Occupational Employment Projections to 2024 https://www.bls.gov/opub/mlr/2015/article/pdf/occupational-employment-projections-to-2024.pdf

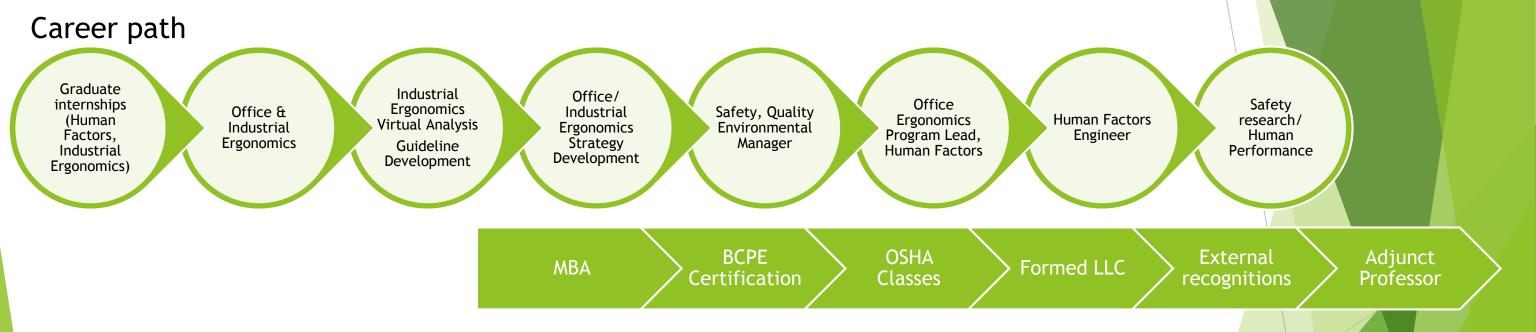
Tools that help me along the journey

- University Internships, Research, volunteering
- Advanced degrees
- Reading journals and publications
- BCPE Professional Certification
- Subject matter expertise training or experience
- ► TEEX OSHA General Industry course
- ► FEMA Incident Management Course
- Certified Behavior Based Safety Specialist
- ► MODAPTS® training & certification
- Mentoring others: kids AND adults
- Conference presentations

- Presentations at other professional meetings
- Networking Online and In person
- Local professional organizations or seminars
- Executive officer in professional organizations
- Company internal groups and voluntary seminars
- Lateral positions to gain experience
- Leadership Women™ Texas
- National Safety Council®
- Alpha Kappa Alpha Sorority, Inc.
- ▶ VOLUNTEER!!!!

Evolution of an Ergonomist

Personal path



Learning through exciting moments!

NASA Mission Control





Kennedy Space Center, Cape Canaveral, FL Graduate student Internship

Johnson Space Center, Houston, TX
Safety, Quality, Environmental Manager, Logistics Contract

Hewlett Packard, Roseville, CA

- ▶ I learned that companies do value their employees
- Company culture is important and matters to my goals and values
- Meetings at meal times included breakfast or lunch
- Any other meeting times included Haagen-Dazs® ice cream!

Johnson & Johnson, San Angelo, TX

https://www.jnj.com/credo/

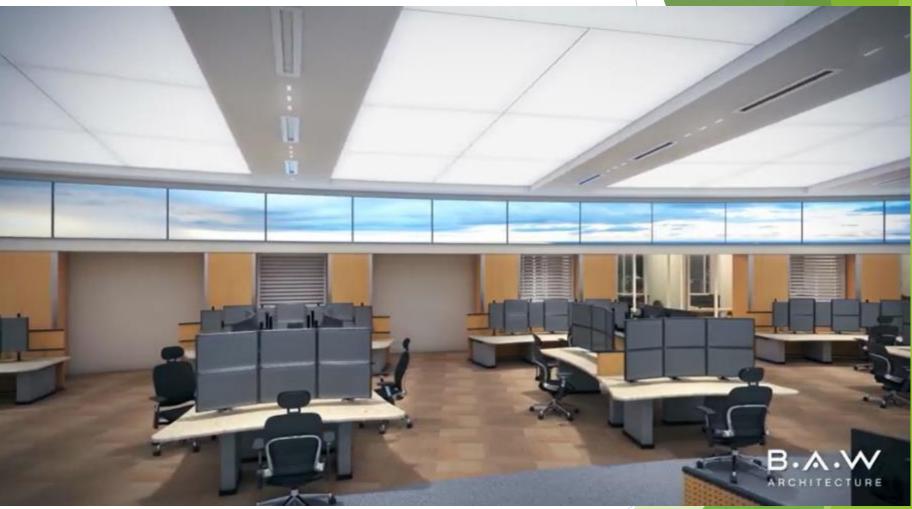
Our Credo

"We believe our first responsibility is to the patients, doctors and nurses, to mothers and fathers and all others who use our products and services. In meeting their needs everything we do must be of high quality...."

- I learned that companies can have a value system that mirrors my own
- Excellent employee treatment and acceptance of diversity

Project





<u>LINK</u>

https://youtu.be/kcRzjqbnNbE

Ford Motor Company

Kentucky Truck Plant - Louisville KY 100 acres under 1 roof =12 football fields under 1 roof Home of Ford SuperDuty Trucks!

Our goal:

- 1. Keep people safe from getting hurt
- 2. Work Smarter and not Harder



Ford Motor Company

I witnessed employees' loyal commitment to all that they do for the customer.

I learned that tough conversations are not personal and we all have the same goal to produce a high quality product for our customers.

NASA - Endeavour Shuttle

- ► Endeavour flew into space 25 times
- ► Final flyover at Ellington Field
- ► I learned that a safety focused company with excellent safety records builds trust in the community. NASA is a VPP Star site! https://www.osha.gov/dcsp/vpp/





National Safety Council

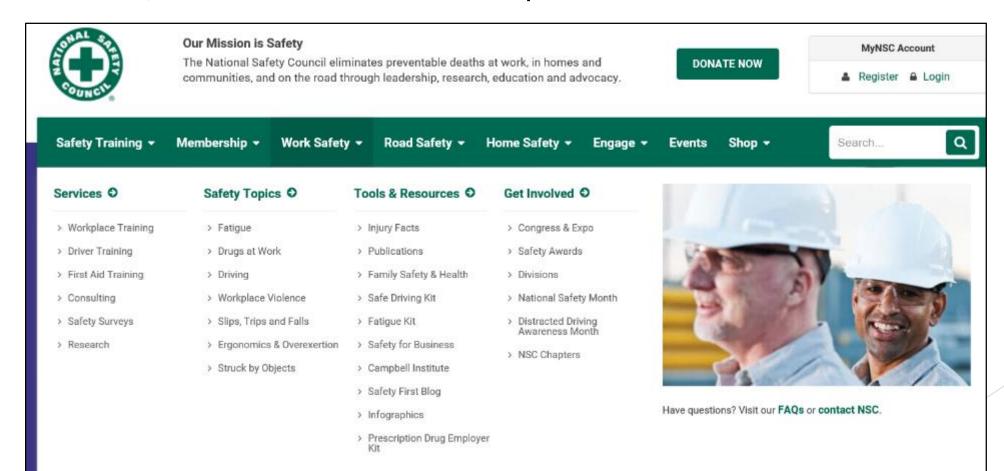
Learn something new!

Nominate a peer for Rising Star of Safety Award

I learned that those in high positions are eager to teach, share and mentor. Ask the question!



2010 Rising Star of Safety Award



Future Projections - We are ready!

Engineering Occupations - Wages, Employment, and Projections

Search: safety

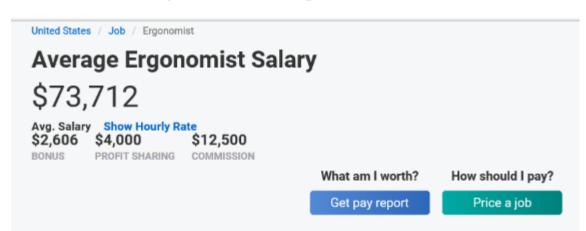
Engineering Occupation	AverageAnnual Salary	Projected % Job Growth - 2012-2022	Projected # Jobs Added - \$ 2012-2022
Health & Safety Engineers	\$84,850	11%	10,000
Industrial Engineering Tech	\$55,660	-3.20%	14,000
Industrial Engineers	\$85,110	4.50%	75,000

All data from the BLS, ABET, & NCES.

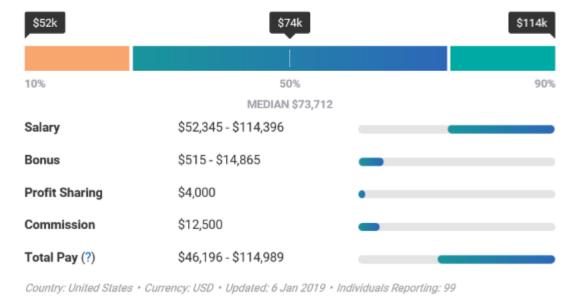
If you are looking for a stable and enriching career It's important to not only consider the highest paid engineering jobs available, but also the engineering fields with the best potential for advancement and employment opportunities. In industries where demand outstrips availability you will find the highest potential earnings along with job security.

https://typesofengineeringdegrees.org/highest-paid-engineering-jobs/

Salary ranges are comparable



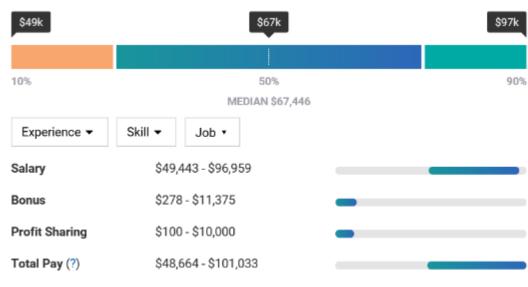
The average pay for an Ergonomist is \$73,712 per year.



https://www.payscale.com/research/US/Job=Ergonomist/Salary

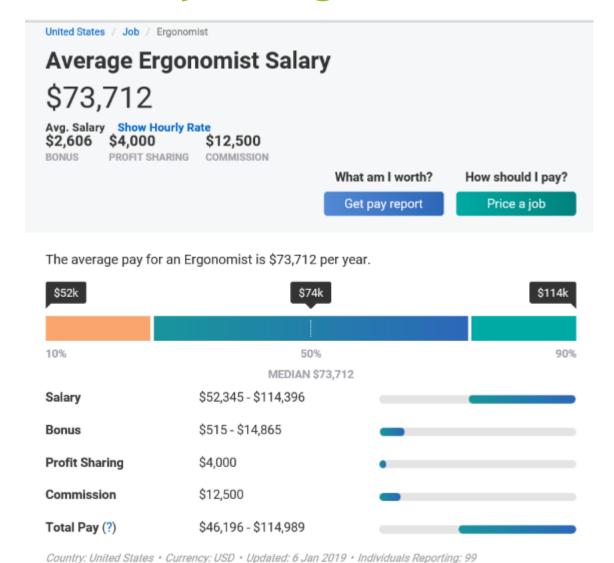


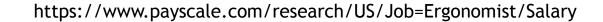
The average pay for an Environmental Health & Safety (EHS) Engineer is \$67,446 per year.

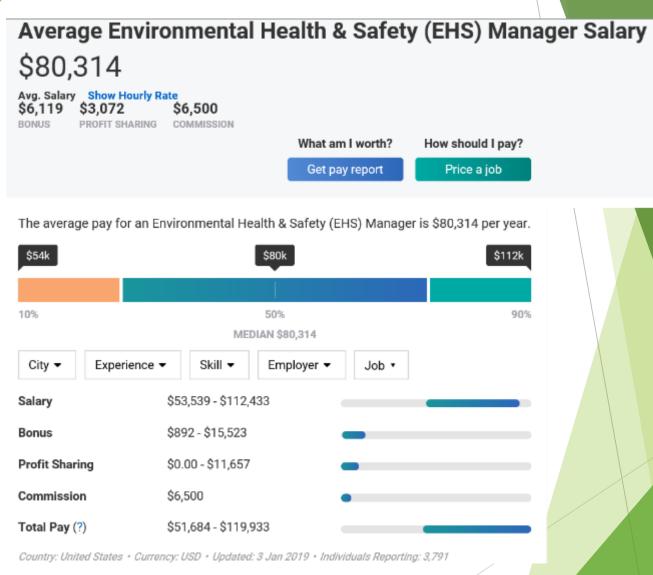


Country: United States * Currency: USD * Updated: 4 Jan 2019 * Individuals Reporting: 284

Salary ranges are comparable







Camille's Thoughts

- 1. Discover what you love!
 - ▶ I love helping people and being the "voice" to improve the work environment
- 2. Make a plan to get to what you love...and be ready for it to evolve
 - My very first goals that I remember...to get A's in school, to ride my bike without training wheels, to get accepted in the International Baccalaureate program....
 - My first career goal was to be an industrial engineer and make \$27K a year
 - In college my goal was to be "marketable" and get a "good" job after graduation
 - My life/career goal was to live and work in Houston, TX
 - Current personal goal to be a published author
 - My future retirement goal is to be a professor and consultant
- 3. Be true to your own moral compass and your value system!

Has the evolution of an ergonomist occurred by design or happenstance?

- A) Design
- B) Happenstance

Remember that you can influence your career!

"Before anything else, preparation is the key to success" Alexander Graham Bell



Bell was a scientist, engineer and inventor *Inventor of the first practical telephone LINK

Many thanks to those that have been part of my evolution!

Remember to register for the conference!

www.iise.org/AEC

