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Engineering Management
By: Nyasia B, Desmond Z, and Joshua C

Salaries

National Average Salary: $131,846

Philadelphia, PA Average Salary: $114,567

Growth of field and education needed

- According to Lawrence Technology University, U.S. engineering management jobs show growth rate in 10% between 2018 and 2020.
- The need for future institutions degree in engineering field – Lawrence Technology University.
- The need for clear and strong leadership in engineering.
- The need for entrepreneurial mass & lines of building high-financial engineers.
- Recommended to work as a professional engineer before you can jump into being a engineer manager.

Interviewee: Thomas Edwards

- Thomas Edwards received his Master Degree of Mechanical Engineering in 1985.
- He worked as an engineer for many years then became a engineer manager.
- He also teaches engineering management courses from at Temple.

What does a typical day look like?

His answer: "The day is unpredictable. In a leadership position time is driven by so many things. A lot of people depend on you."

This agrees with the research I found. Being an engineer manager you have to have a lot of patience and be willing to flexible with your time and schedule.

How do you change to the adaptation of engineering?

His answer: "Keep your resources when changing. Do also have to keep resources in terms of the other engineers on the change. Trying to do things the old way. Maintain to think about what things don't to change are not to the technical expert anymore.

What advice do you have for future engineers?

His answer: "Whatever problems you face just keep pushing back. Take the most challenging job you can find. There is a certain amount of anxiety to being an engineer manager. You just have to get it out and develop self-confidence. You can't lose that confidence when you make mistakes, you just got to learn from them.

Engineering Management Curricular Requirements

- 30 Credits to attain Masters Degree
- 21 Credits of required courses
- 13.5 semester hours taken in the College of Engineering
- 7.5 semester hours taken in the Fox School of Business and Management
- 9 semester hours will consist of elective courses taken from either school.

Career Path

Eventually I would want to be a manager in whatever field I go into. I'm still not sure if I want to be an engineer though. –Nyasia

This showed me a good option for a masters degree. It helped me explore my options. –Josh

I can use some of these management skills in architecture–Desmond

Thank You Any Questions?

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- The need to have a bachelor's degree in an engineering field – examples: Mechanical, Civil, etc.
- The need to obtain a certain number of hours in engineering.
- The need to complete at least 3 years of building your financial engineers.
- Tuesday, need to work as a professional engineer before you can jump into being a engineer manager.

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How much has inflation and shifts in business that they need to attract their design?

Answer: "We then remind customers that they can come to the conclusion that they should compete today. You do need to make sure you don't know that confidence you want to be fast to support them at the same time."

This also goes with the research that I have a lot of people depend on you. They want you to look at it as they don't want to get their background. This is why you have to be good with people.

How did you change to the adaptation of engineering?

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Growth of field and education needed

- According to Lawrence Technology University (LTU) engineering management jobs show grow by nearly **55%** between **2010 and 2020.**
- You need to have a bachelor's degree in an engineering field - examples: mechanical, civil, bio, etc...
- You need to obtain a state recognized license in engineering.
- You need to complete at least 4 years of training by professional engineers
- You also need to work as a professional engineer before you can jump into being a engineer manager.

Thank You
Any Questions?

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How did you change to the adaptation of engineering?

His answer: " Keep your eyes open on whats changing. You also have to keep an open mind. Some of the older engineers don't like change. They like to do things the old way. Make sure to think ahead. As things start to change you won't be the technical expert anymore.

What advice do you have for future engineers?

His answer: "Whatever problems you face just keep pushing back. Take the most challenging job you can find. There is a certain amount of anxiety to being an engineer manager. You just have to gut it out and develop self-confidence. You can't lose that confidence when you make mistakes, you just got to learn from them .

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This agrees with the research I found. Being an engineer manager you have to have a lot of patience and be willing to flexible with your time and schedule.

How would you inform a student or employee that they need to rethink their design?

His answer: "Ask them enough questions so that they can come to the conclusion that they should change their idea. You also want to make sure you don't ruin their confidence, you want to be firm but support them at the same time."

This also agrees with the research we found because a lot of people depend on you. They want your feedback yet they don't want to get their feelings hurt. That is why you have to be good with people.