

FEMSTEM

CAREER PATHWAYS



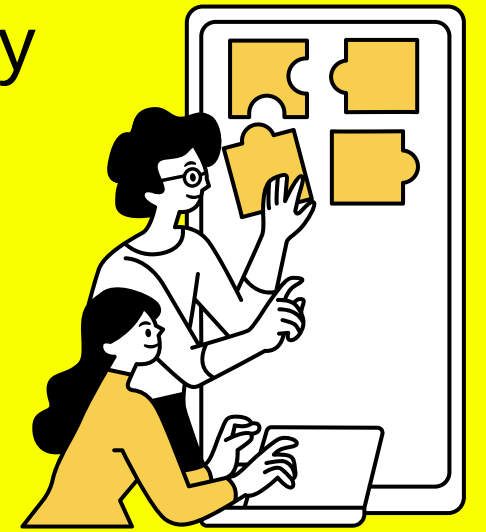
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GENETICS

1

Bachelor's Degree in Biology, Chemistry or Genetics. Common coursework includes general education classes like English, history and math, and science classes like biochemistry, molecular chemistry, microbiology, horticulture, botany, zoology and genetics.



2

RESPONSIBILITIES AND DUTIES

Geneticists study genetic material in laboratories using equipment like DNA scanners, microscopes and other advanced equipment for gene manipulation and gene therapy. They analyze massive amounts of data using computers with special software.

3

CAREER PATHS

Medical geneticists; physicians who treat & diagnose genetic diseases like hemophilia, leukemia, lymphoma & other illnesses caused by DNA alterations.

Laboratory research geneticists study inherited characteristics and use data to experiment and analyze genetic diseases.

4

SKILLS

Time management; Problem-solving; Perseverance; Mathematics; Interpersonal skills; Critical thinking; Communication; Precision and accuracy.



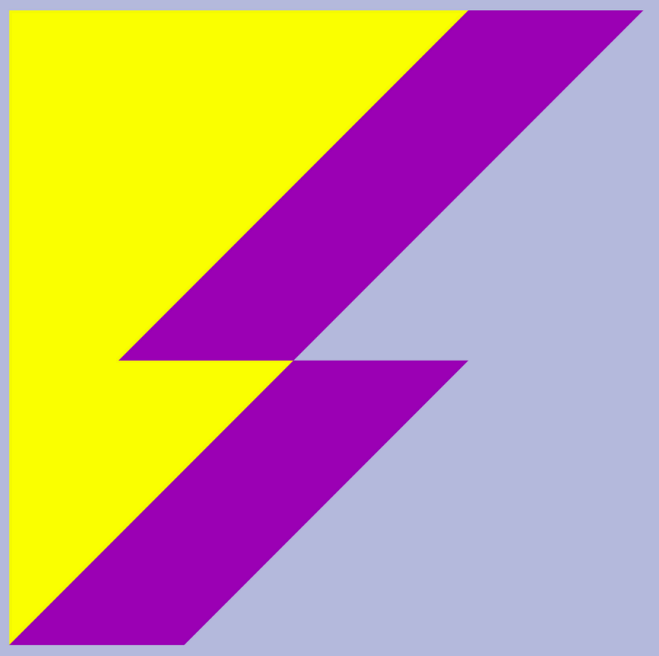
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TIPS FOR SUCCESS

Take a Master degree in Genetics. If you want to have more career opportunities take a PhD either in genetics, (for research career) or become a Doctor of Medicine for Medical research career.

Follow the latest advancements by participating in conferences, continuous learning and exchange of knowledge





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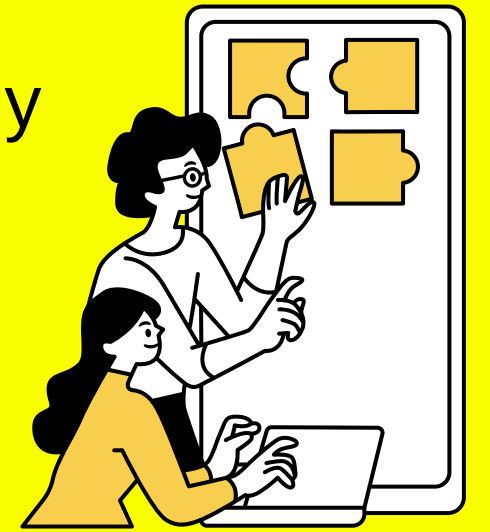
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BIOTECHNOLOGY

1

Bachelor's degree in biotechnology or related fields like biology, chemistry, and biomedical engineering. Certification programs to boost knowledge in other aspects of biotechnology.



2

TYPES OF JOBS

- Biochemist and biophysicist
- Animal scientist
- Food scientist and technologist
- Biomedical engineer
- Epidemiologist
- Bioinformatician
- Clinical technician
- Professor

3

SKILLS

Technical Skills: Data Analytics; Bioinformatics; Regulatory Compliance/ Generative AI and Machine Learning
Soft Skills: Cross-functional collaboration; Communication

4

BOOST YOUR CAREER

Complete an internship – allowing to learn more about the opportunities in the field
Get a Master degree or a certification
For a position that involves research or managing other biotechnologists, continue your education and complete a PhD.

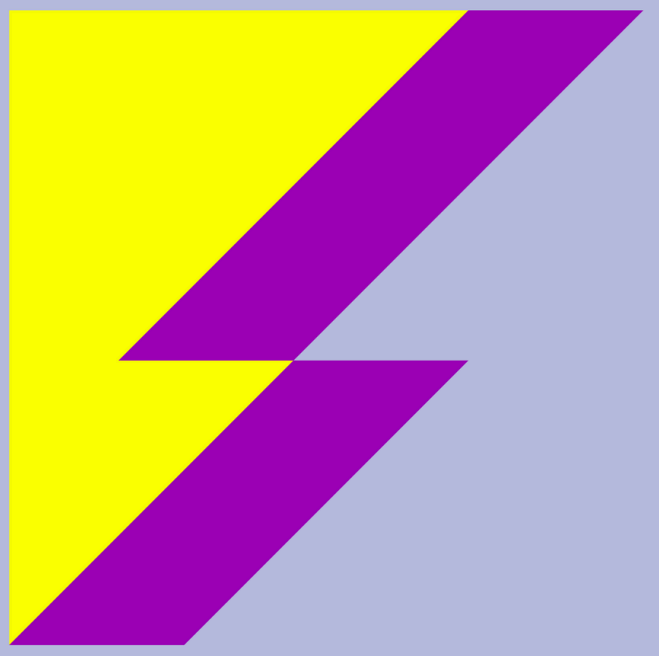


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TIPS FOR SUCCESS

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ELECTRICAL ENGINEER



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1

Bachelor's degree in electrical engineering
Master's or doctoral degree can help to advance career.

Classes like math, computer science, physics, basic engineering, statistics are common requirements.

Obtain licensing by passing the exams of the Engineers Chamber.



2

TYPES OF JOBS

Computer engineering, Advanced automation and robotic systems, Aerospace and space defense system, Automotive advanced driver assistance systems, Communication and networking, Biomedical engineering, Engineering Management, Energy Engineering, Electronic Engineer, Power Engineer, Professor

3

SKILLS

Problem-solving skills are key in this profession; Critical thinking; Organizational skills; Communication and collaboration is a major part of engineering; Circuit knowledge; Programming skills; Creative thinking Knowledge of new technologies and tools

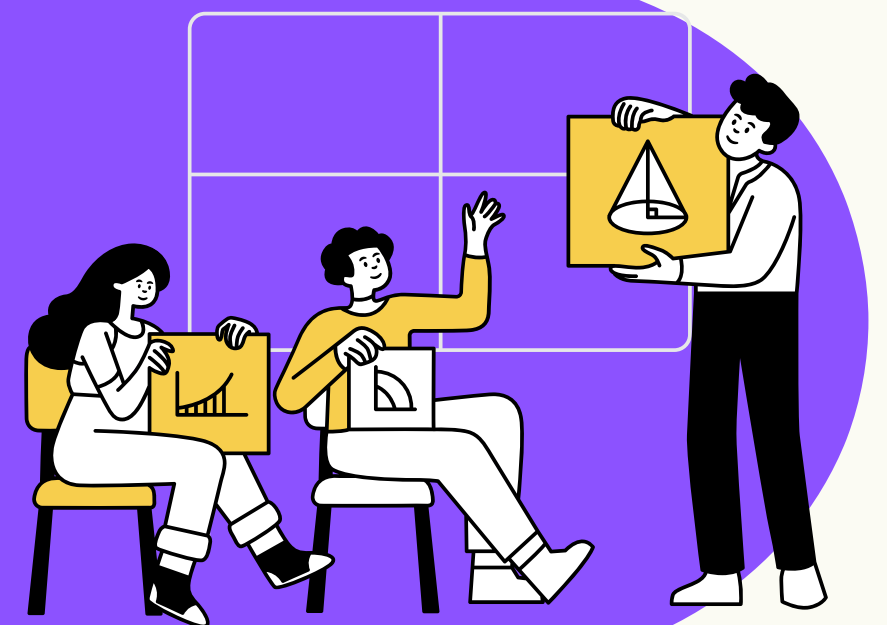
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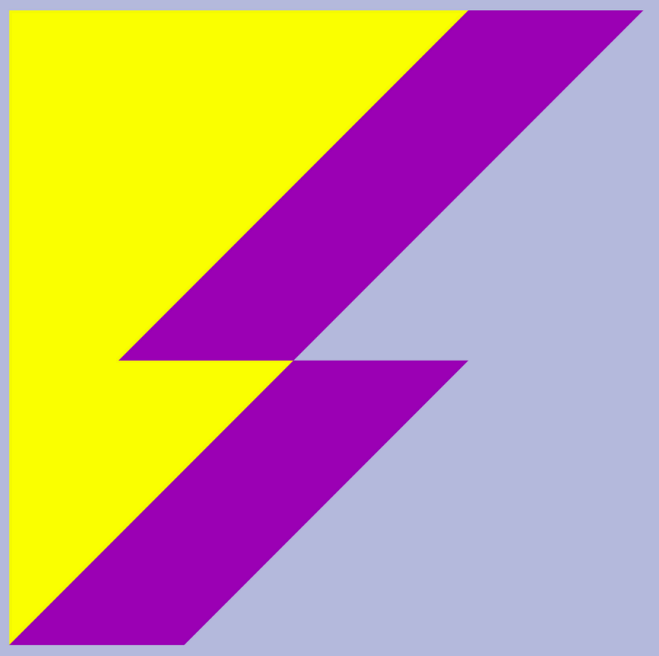


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COMPUTER SCIENCE



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1

Bachelor's degree in computer science or Information Technology

Master's or doctoral degree can help to advance career.

Key skills for a proficient computer scientist include understanding mathematics and programming languages, possessing good communication abilities and demonstrating critical thinking acumen and creativity.



2

TYPES OF JOBS

Leading product development initiatives
Improving software or hardware by advancing a system's computing power and efficiency
Testing and debugging computer software
Using and creating programming languages
Collaborating with computer programmers and coders to provide leadership on projects
Developing and testing algorithms, software and data structures, Professor

3

SKILLS

Knowledge of mathematics, such as linear algebra, calculus, statistics and mathematical logic / Knowledge of programming languages / Communication skills / Critical thinking abilities to analyse potential complications in a project and approach issues logically / Creativity to solve problems, generate new ideas

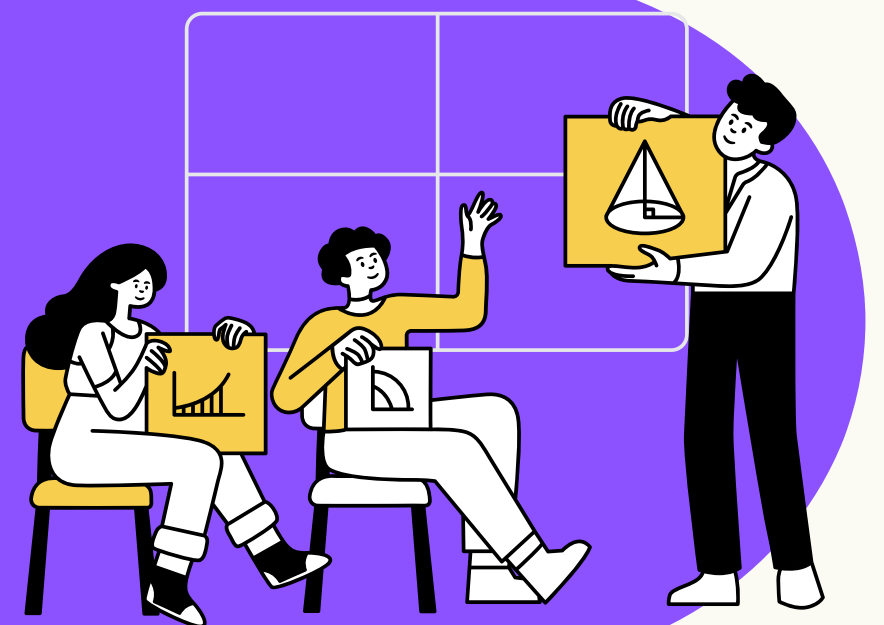
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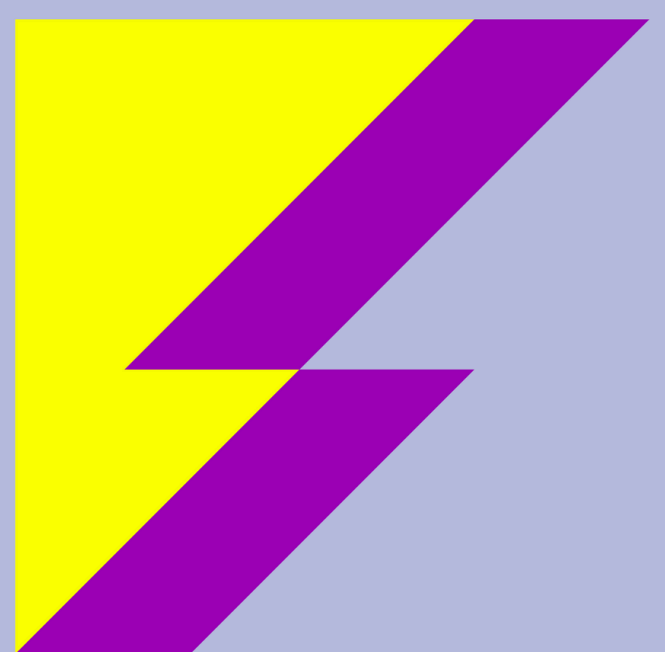
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ENVIRONMENTAL ENGINEER

1

Bachelor's degree in environmental engineering / Master's or doctoral degree can help to advance career.

Obtain licensing by passing the exams of the Engineers Chamber.

Various subfields and specializations, such as soil management, ecological sustainability, geotechnical engineering and geophysical engineering focusing on extraction and mining of natural resources.



2

TYPES OF JOBS

Environmental Engineer / Water Resources Engineer / Process Engineer / Consultant / Environmental Health Research Scientist / Air Quality Engineer / Hydrologist / Field Engineer / Municipal Engineer / Wastewater Engineer / Project Engineer / Design Engineer / Professor.

3

SKILLS

environmental policies knowledge / Renewable policies energy. Research and innovation . Problem-solving. Creative and innovative ways of producing energy which surpass the current systems.

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