

R.O.S.A Presents



The STEM Readiness Guide



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Intro

Are you interested in pursuing a career in STEM? Whether you're a student, teacher, or parent, this guide is here to help you navigate the exciting world of STEM. Our guide is designed to provide you with the essential knowledge and skills needed to succeed in a STEM career. Join us as we explore the endless possibilities of STEM!

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BENEFITS OF STEM CAREERS

STEM (Science, Technology, Engineering, and Mathematics) is a critical area of study that is becoming increasingly important in today's world. Pursuing a career in STEM provides numerous benefits, including job security, competitive salaries, and the opportunity to work on groundbreaking projects that can change the world.



BENEFITS OF STEM CAREERS

1

STEM careers offer a chance to make a positive impact on society.

2

You can count on more job security in a STEM career.

3

You get to live and work on the cutting edge.

4

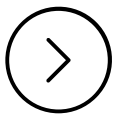
You learn transferable skills.

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STEM FIELDS + CAREER PATHS

STEM stands for Science, Technology, Engineering, and Mathematics. These fields play a crucial role in driving innovation, economic growth, and social progress. STEM-related careers are in high demand, and are projected to continue growing in the future.



STEM FIELDS + CAREER PATHS

Software Developer

**Median Annual Salary:
\$110,140**

Cybersecurity Analyst

Median Annual Salary: \$103,590

Data Scientist

Median Annual Salary: \$98,230

The careers above can be obtained by getting a 4-year degree in Computer Science and Math, and obtaining internships.

STEM FIELDS + CAREER PATHS

Petroleum Engineer

Median Annual Salary: \$137,720

Mechanical Engineer

Median Annual Salary: \$90,160

Civil Engineer

Median Annual Salary: \$87,060

The careers above can be obtained by getting a 4-year degree in the specific engineering field and obtaining internships.

STEM FIELDS + CAREER PATHS

Biomedical Engineer

Median Annual Salary: \$91,410

Biologist

Median Annual Salary: \$82,680

Forensic Scientist

Median Annual Salary: \$70,785

The careers above can be obtained by getting a 4-year degree in the specific engineering field or biology and obtaining internships or doing research.

STEM FIELDS + CAREER PATHS

Geophysicist

Median Annual Salary: \$108,465

Meteorologist

Median Annual Salary: \$102,597

Nanotechnologist

Median Annual Salary: \$100,640

The careers above can be obtained by getting a 4-year degree in physics and obtaining internships or doing research.

STEM FIELDS + CAREER PATHS

Chemical Engineer

Median Annual Salary: \$105,500

Pharmacologist

Median Annual Salary: \$94,193

Chemist

Median Annual Salary: \$80,760

The careers above can be obtained by getting a 4-year degree in chemistry and obtaining internships or doing research.

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SKILLS NEEDED FOR STEM

Obtaining technical and non-technical skills is essential for anyone interested in pursuing a career in STEM. There are many ways to develop these skills, from attending workshops and training programs to participating in internships and research opportunities.



TOP 5 TECHNICAL SKILLS NEEDED FOR STEM

01

Strong foundation in Math and Science

02

Proficiency in coding and programming languages

03

Knowledge of specialized software and tools related to the field of study

04

Understanding of engineering principles and design thinking

05

Ability to conduct experiments and research

TOP 5 NON-TECHNICAL SKILLS NEEDED FOR STEM

01

Collaboration and Teamwork

02

Communication (both written and oral)

03

Problem-solving + Critical Thinking

04

Time management and organization

05

Adaptability and Flexibility

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CAREER RESOURCES

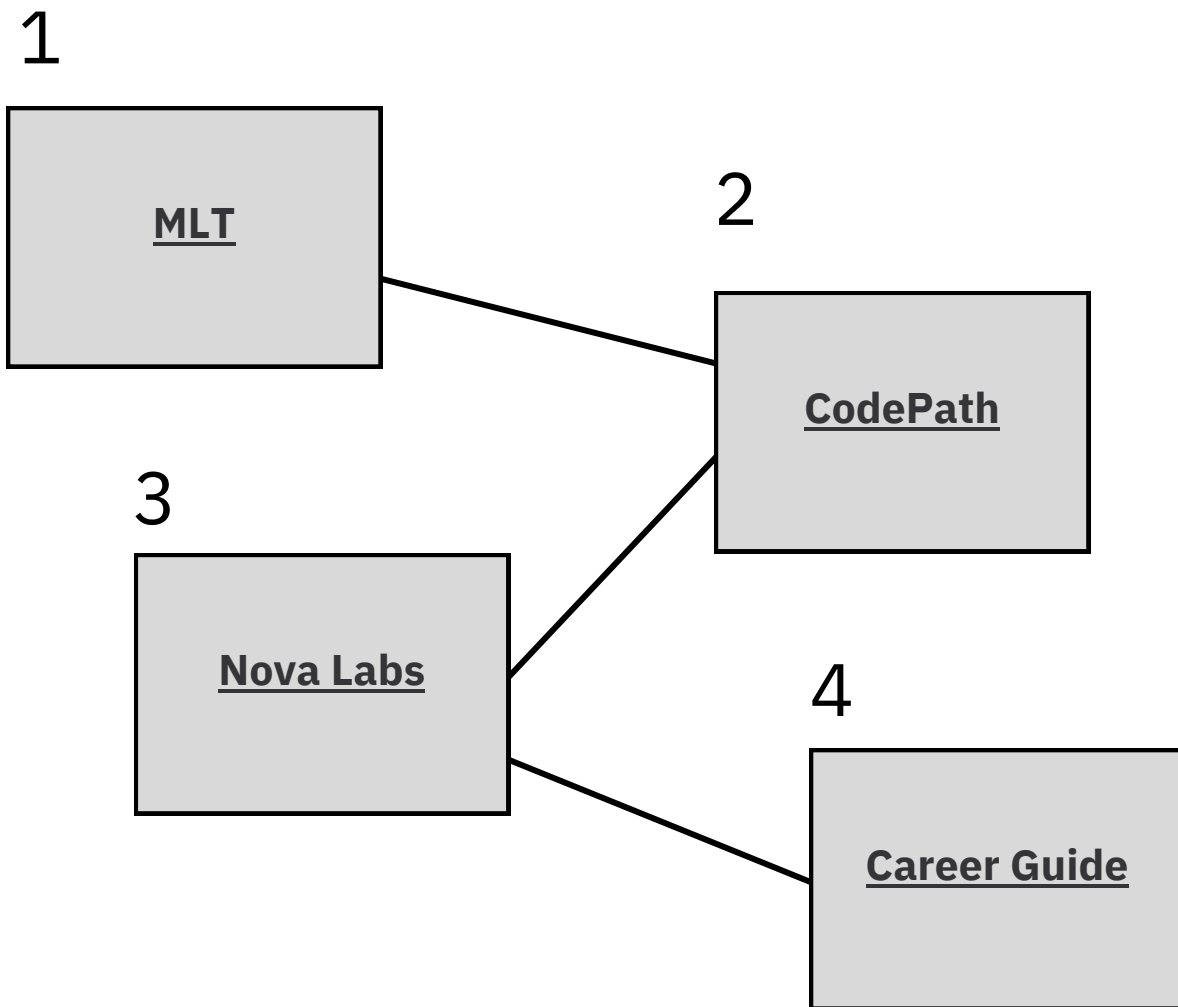
Career resources play a crucial role in preparing students for success in STEM fields.

Here are a few reasons why:

1. Providing clarity
2. Encouraging Exploration
3. Developing skills
4. Building networks



CAREER RESOURCES

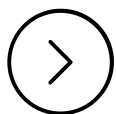


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CONCLUSION

As you embark on your journey towards a career in STEM, remember that the skills you develop along the way will be just as important as the technical knowledge you acquire. The possibilities are endless, and the future of STEM is in your hands.





Thank You!