

## Emerging technologies to watch out for in the near future

Here are some of the latest emerging technologies that could have a significant impact on our lives in the coming years

### **Sustainable aviation fuels:**

Synthetic fuels made from biological sources like biomass or non-biological sources like CO<sub>2</sub>, which can be used with existing aviation infrastructure and equipment. The aviation industry generates between 2-3% of global CO<sub>2</sub> emissions, but all regions of the world are set to see big increases by 2050. Today, SAFs meet around 1% of aviation industry fuel demand, but this must increase to 13-15% by 2040 to help the industry reach net-zero emissions by 2050.

**Wearable plant sensors:** These sensors can be attached to plants to monitor their health and growth. They can detect changes in temperature, humidity, light, and soil moisture levels, and send alerts to farmers when plants need watering or other care.



**Generative AI models:** These models use machine learning algorithms to generate new content such as images, videos, and text. They have the potential to revolutionize the creative industry by automating tasks that were previously done by humans.

**Quantum computing:** Quantum computers use quantum bits (qubits) instead of classical bits to perform calculations. They have the potential to solve problems that are currently impossible for classical computers, such as simulating complex chemical reactions or breaking encryption codes.

**5G networks:** The fifth generation of wireless technology promises faster download and upload speeds, lower latency, and more reliable connections than previous generations. It has the potential to enable new applications such as autonomous vehicles, remote surgery, and virtual reality.

These are just a few examples of the many exciting new technologies that are emerging today.







## Resume secret: Your resume isn't about you

Your resume is not about you. It's about the employer. When a hiring manager reads your resume, they're thinking one thing: “Does this person have the background needed to step into this job and succeed?” They'll decide the rest (like whether you're a good cultural fit) in the interview.

When you realize that they're thinking all about their job, and write your resume with the single goal of demonstrating how you'll fit into that job, then you'll have a resume that's in the top 5-10% of all applicants. And yes – if you go apply for a different type of job tomorrow, you should adjust your resume for that, too.

Tailoring your resume does take a bit more time, but it'll get you more interviews. If you've only been sending out applications with a general resume, give this a try. It should help you immediately. Applying for a high number of jobs doesn't mean you're being productive. It's about getting interviews. This is how to get more.

## VETERANS, GET READY TO POWER YOUR TECH FUTURE AT GLOBAL IT

Global Information Technology (Global IT) is approved by the Department of Veteran Affairs to receive Veterans benefits. We accept Chapter 33 Post 9/11 GI Bill®, Chapter 30 Montgomery GI Bill® for Active Duty, Ch 31 Vocational Rehabilitation and Employment (VR&E), Vet Tec, and VRRAP. Whether you are serving or have already served, Global Information Technology is here to work with you to start your IT career. These benefits may cover up to 100% of tuition and fees and housing allowance, courseware, and other training related costs as well.

The Department of Veterans Affairs (VA) will begin accepting new VET TEC Pilot Program enrollments for terms beginning on or after September 4, 2023. The Vet Tec program helps veterans get the technology skills they need to join some of the fastest-growing industries in the United States. Global Information Technology (Global IT) is approved by the Department of

Veteran Affairs to receive benefits under Vet Tec Program. Veterans participating in Vet Tec will receive high-tech training, tuition, and housing allowance assistance. Global IT is enrolling eligible veterans into a new pilot program called Veteran Employment Through Technology Education Courses (Vet Tec).

For more information about your specific benefits in regards to your service, call 248-557-2480 to set up an appointment with one of our School Certified Officers (SCO) (career advisors) or complete the inquiry form at <https://www.globalitech.com/va-p>



## Fun and interesting facts about technology. Did you know .....

- Apple has a “smoking” ban on their computers, meaning if you smoke while using any Apple computer, the warranty becomes void.
- The first word to ever be auto-corrected was “teh.”
- In 2012, at least six girls were named Apple, 49 boys were named Mac, and at least 17 girls were named Siri.
- There is special Braille technology and accessories for blind people to use cell phones. It uses special pins that go up and down so the user can touch and read the info
- NASA’s internet speed is 91 GB per second.
- Online dating is hugely popular these days, and apparently, it seems to work! 40% of couples who got together in 2017 met online.
- Over 6,000 new computer viruses are created and released every month.
- Mark Zuckerberg is color blind. The founder of Facebook chose a blue color scheme because he has red-green color blindness! To him, blue is the richest and most prominent color that he can see.
- Facebook pays \$500 for reporting any vulnerability in its security.
- When typewriters were introduced, typing too fast would jam the keys. Using a QWERTY keyboard spaced out commonly used characters to slow typists down and prevent jamming.
- New Zealand is such a diverse country with English-speaking residents, which makes it a great place for testing. But the main reason is that since it’s somewhat isolated, news about a product failing won’t spread very fast
- If you’ve ever said, “I’ll be back in a jiffy,” you were actually saying, “I’ll be back in 10 milliseconds.” A jiffy is an actual measurement of time, referring to the length of one cycle of the computer’s system clock – about 10 milliseconds.

## GIT thought Provoking corner



I think it's very important to have a feedback loop, where you're constantly thinking about what you've done and how you could be doing it better. I think that's the single best piece of advice: constantly think about how you could be doing things better and questioning yourself.

- **Elon Musk**

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## Technology consulting: What it is & how to succeed in It

Technology is a critical part of business success. With its rapid growth and expansion into virtually every industry, tech consulting is more in demand than ever, and the truth is in the numbers. The IT consulting industry grew by over 30% between 2012 and 2022, with a market value of over \$620 billion.

As of this writing, over 2.5 million people are employed as technology consultants and this role has a good outlook for continued growth. Tech consultants continue to offer value by helping businesses understand how to use and make the most of new technologies.

### **What does a technology consultant do?**

Technology consultants work to solve a variety of business problems with technology. A tech consultant works with clients on specific projects or systems to



improve the results they deliver to the business. For example, someone offering these services might help a company install software for remote work. Then, that consultant could also help make sure that software doesn't impact other business systems.

This role could also include:

- Custom software development
- Infrastructure planning
- Security analysis
- Risk assessment
- Scaling issues
- Manage and advise on technology tools
- Competitive tech analysis
- Training

Tech consultants often work with a business's executives, leaders, and senior managers. They might also advise on the strategic or financial sides of technology and software. For example, talking about how to invest in cost-efficient systems or how to integrate the Internet of Things across departments.

### **Why do businesses need tech consulting?**

As businesses grow, technology becomes more important. Tech consulting experts help these companies transform their technology usage. This can help to:



- Reduce costs
- Drive corporate strategy
- Streamline business processes
- Develop new talent
- Inspire innovation
- Boost productivity

Some technology consultants fill holes in a current team, while others offer advice on best practices. Either way, tech consulting helps businesses prepare for and respond to the rapid pace of digital transformation.

Technology consulting is a valuable and lucrative industry, and technology consultants are major assets to the clients that hire them.

As a tech consultant, you offer incredibly useful skills to businesses large and small. Your efforts can help a company retain top talent, improve its products, and grow the business.

It takes skills, knowledge, and drive to succeed in this industry. But if you follow the steps above to start your career in technology consulting you'll be in a good position to add value as a consultant.

## GIT November 2023 Career Services

**Workshops -** *A special message from Jennifer Bowden, GITs Career Services Manager*

Hello GIT students. I'm happy to announce our upcoming Career Services workshops and dates. Career workshops provide educational opportunities for students to learn about key career readiness skills and topics. These workshops will always span a gamut of topics including resume tips, navigating a career fair, and best practices for job interviewing, just to name a few. I look forward to seeing. RSVP with me here: [jennifer.bowden@global-itech.com](mailto:jennifer.bowden@global-itech.com)

- **Creating a LinkedIn Profile**  
Fri., November 17 @ 4 p.m.



## A day in the life

### The role of an AI Chief Architect



AI architects are the curators and owners of the AI architecture strategy. They are the glue between data scientists, data engineers, developers, operations (DevOps, DataOps, MLOps) and business unit leaders to govern and scale the AI initiatives. They work closely with enterprise and solution architects, but unlike the architecture team, which is responsible for a broad set of functions, they are laser-focused on building a robust enterprisewide architecture for AI. Most AI Chief Architects wear two hats - one as a researcher looking at new developments in AI, the second in Product Management role to understand the needs or problems of businesses, then suggest the right solutions.