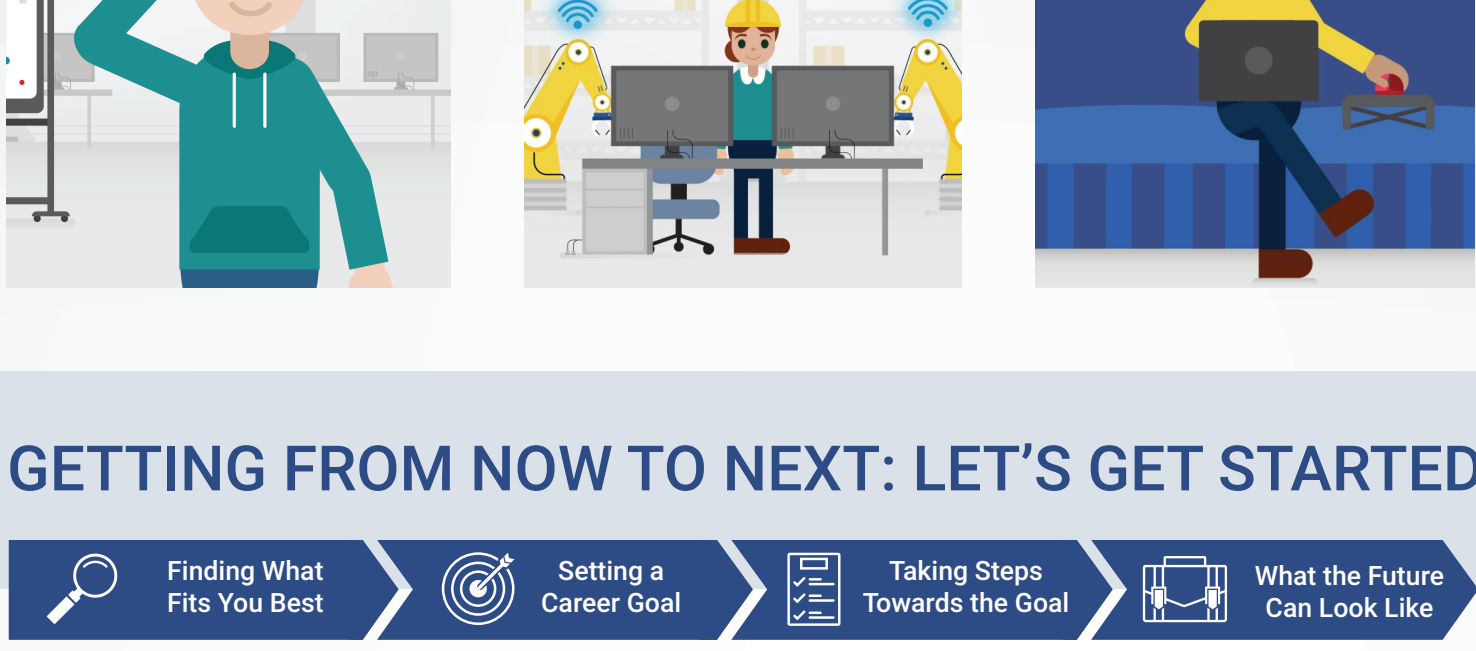


# ARE YOU FUTURE-FIT FOR OPPORTUNITIES IN ADVANCED MANUFACTURING?

The global manufacturing industry is extremely competitive, and that means innovating is now more important than ever. To make sure we're an active player in this high-stakes game, Atlantic Canada's manufacturing sector is modernizing – and they're looking for talent like you to make it happen.



## GETTING FROM NOW TO NEXT: LET'S GET STARTED



### BUT FIRST: Is this you?

Let's look at your brain type. Choose the number that describes you best.

**I teach myself new things**  
not so much 1 2 3 4 5 6 7 8 9 10 all the time

**I am tech-savvy**  
can't work the remote 1 2 3 4 5 6 7 8 9 10 gadget guru

**I like to figure out how things work**  
if it breaks, throw it away 1 2 3 4 5 6 7 8 9 10 if it breaks, crack it open and find out why

**Now add up your score.**  
If you scored 15 or more – advanced manufacturing could be the future for you.

## FINDING WHAT FITS YOU BEST

**INTERESTS**  
What do you like to do best in your spare time?  
Choose from the following list.

Minecraft Score: A	Logical Puzzles Score: C	Tinkering Score: A	Team Sports Score: B	Chess Score: C
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**INCLINATION**  
What is your favourite area of study in school?  
Choose from the following list.

Math Score: C	Science Score: A	Tech Score: A	Business Score: B
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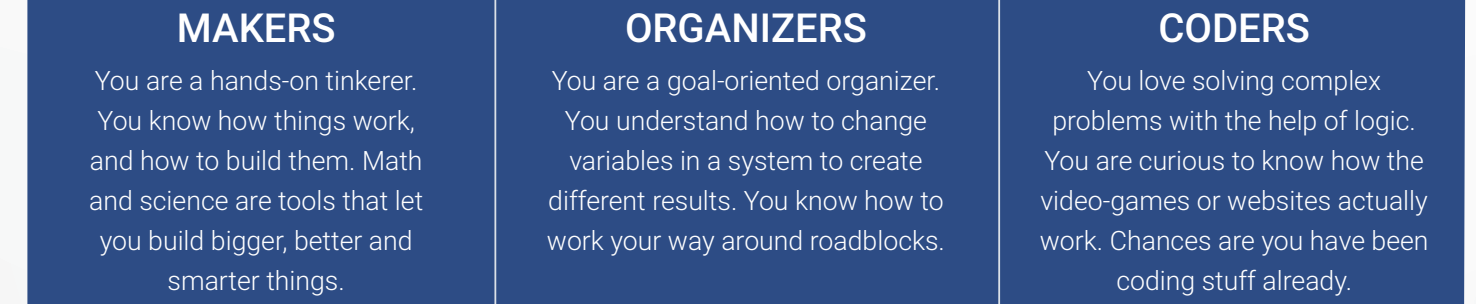
**MOTIVATION**  
I get bored unless I...  
Choose from the following list.

Am Hands-On Score: A	Can Explore My Own Solutions Score: C	Know What the Goal is Score: B
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**ASPIRATIONS**  
The best job for me would be the one where I...  
Choose from the following list.

Make Stuff Score: A	Code Stuff Score: C	Organize Stuff Score: B
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### Now collect your scores.



**If you scored mostly As: MAKERS**  
You are a hands-on tinkerer. You know how things work, and how to build them. Math and science are tools that let you build bigger, better and smarter things.

**If you scored mostly Bs: ORGANIZERS**  
You are a goal-oriented organizer. You understand how to change variables in a system to create different results. You know how to work your way around roadblocks.

**If you scored mostly Cs: CODERS**  
You love solving complex problems with the help of logic. You are curious or know how the video-games or websites actually work. Chances are you have been coding stuff already.

### PRO TIP

Haven't graduated from high school yet? You can start building material for your college or university applications now!

- If you are a MAKER:** Join the STEM/Robotics club, apply for a part-time job at a bike store, build your own computer out of spare parts.
- If you're an ORGANIZER:** Take your coaching certifications, look into Lean Six Sigma programs for students, start a small business.
- If you're a CODER:** Be a volunteer web master, take online programming courses, join the tech club, read professional forums online.

## SETTING A CAREER GOAL

Here are some future-proof job areas in Advanced Manufacturing.

<b>If you are a MAKER</b> Collaborative Robotics Augmented Reality Systems 3-D Printing Digital Manufacturing Industrial Automation	<b>If you are an ORGANIZER</b> Smart Factory Transformation Projects Industry 4.0 Systems Integration Continuous Improvement in Manufacturing Supply Chain Management IT Infrastructure Design and Management	<b>If you are a CODER</b> Industrial App Development Manufacturing Cybersecurity 3-D Modelling Automation Programming Machine Learning / AI Development
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These are just some examples, to give you a taste of how smart technologies transform traditional manufacturing into one of the most exciting frontiers of our time. Feel free to explore these and related areas, to see which of them are of particular interest to you.

To get a sense of what individual jobs can look like, check out Industry 4.0 and Advanced Manufacturing vacancies online. There are also some examples at the end of this infographic.

Do you already know in which area you would like to work? If yes, add 100 points to your score.

## TAKING STEPS TOWARDS YOUR GOAL

**PLANNING**  
To make my post-secondary journey easier, I have...  
Choose all that apply.

Chatted with my guidance counsellor about my options. Score: 10 points	Looked into programs and selected good-fit options for which I have pre-requisite courses. Score: 20 points	Explored all the scholarships and bursaries that are available to me. Score: 30 points	Personally connected with recruiters at my top three places of study. Score: 50 points
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**APPLY**  
To build my skills I have applied for...  
Select any program(s) you have applied for.

<b>MAKERS</b> Engineering-related studies University: Mechanical Engineering, Electrical Engineering, Electronics and Controls College: Engineering Technology, Energy Systems Engineering	<b>ORGANIZERS</b> Process/systems analysis and business studies University: Technology and Innovation (TME Studies), Business Administration, Informatics, Project Management College: Business Intelligence Analytics, IT Systems Management, Information Systems, Supply Chain Management	<b>CODERS</b> Computer science-related studies University: Computer Science, Computational Biology, Computing and Data Analytics College: Programming, Software Development, Application Development
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Add 100 points to your score if you've applied to any of these programs

### PRO TIP

Education: Degrees, diplomas and certificates.

Don't be afraid to do more than one of these options. If you have a goal in mind, you can use different post-secondary institutions to create the skillset you need. Maybe there is a cooperative program between two institutions – or maybe it will just take a couple of extra years to get what you need. That's okay. You'll come out the other side closer to being job-ready.

**EXPERIENCE**  
To make my job search journey easier, I have...  
Choose all that apply.

Enrolled in a co-op program to get on the job learning. Score: 50 points	Took a summer job that is a resume builder. Score: 20 points	Made use of apprenticeship opportunities. Score: 20 points	Linked up with a mentor. Score: 30 points
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**CONNECT**  
With your post-secondary work well underway, it's time to make sure you understand the landscape in which you intend to work. You have...  
Choose all that apply.

Checked out the online presence and hiring outlook for the employers in your area. Score: 10 points	Joined industry associations offering free or discounted student memberships. Score: 30 points	Attended webinars or conferences in your field of study. Score: 40 points	Followed key employers and thought leaders on social media. Score: 10 points	Asked key employers for a tour of their facility and a meeting with HR. Score: 50 points
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**PACKAGE**  
As you get ready to look for permanent work, it's time to consider your application package. You have...  
Choose all that apply.

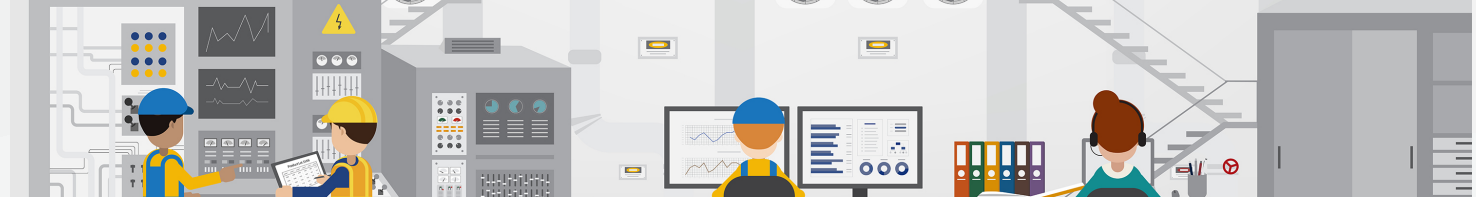
Written a great error-free resume and cover letter. Score: 20 points	Done a practice interview. Score: 30 points	Checked your social channels for appropriateness. Score: 30 points	Created a thought leadership item like a blog post or paper. Score: 50 points	Considered your interview wardrobe. Score: 10 points
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### Now collect your scores.

<b>If you scored 0 – 260 points</b> Consider upping your game to make sure you stand out from the crowd. Circle back on our suggestions and tackle it!	<b>If you scored 261 – 360 points</b> You're starting to emerge from the pack. You've done some good leg-work, but let's take it up a notch and make sure you get noticed.	<b>If you scored 361 – 430 points</b> You are standing out! You've got some interesting things on your resume you can chat about in an interview, and your network will likely produce a job for you without too much trouble.	<b>If you scored 431+ points</b> You're a Rockstar. You've invested in yourself and now job options will come to you. Congratulations!
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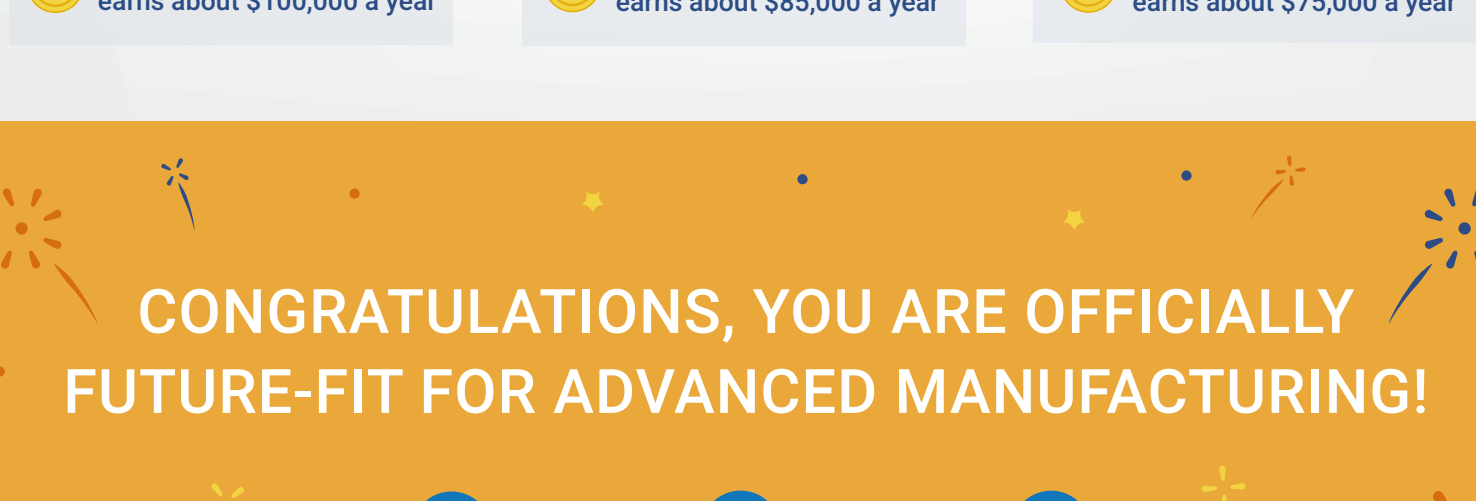
## WHAT THE FUTURE CAN LOOK LIKE

Some examples of jobs in Advanced Manufacturing



<b>MAKER</b> <b>Electrical Engineer</b> Job description: Electronics engineering roles range from designing new products to supervising the assembly of electronic equipment. This is one of the most in-demand and rapidly developing professions in modern manufacturing heavily relying on smart technology. Experienced professional earns about \$90,000 a year	<b>ORGANIZER</b> <b>CODER</b> <b>Systems Integrator</b> Job description: Responsible for connecting various IT systems into a single, larger system that works functionally together. A key role for speeding up the flow of information and reducing operational costs, making it a crucial job for an IT-driven organization. Experienced professional earns about \$90,000 a year	<b>CODER</b> <b>Cybersecurity Specialist</b> Job description: Cybersecurity professionals think outside the box to stay one step ahead of the hackers to minimize or prevent cyber security risks. They can have a wide range of responsibilities, but the crux of their job is to protect a business from viruses, hackers and other digital threats. Experienced professional earns about \$95,000 a year
<b>MAKER</b> <b>Automation Engineer</b> Job description: Designs, builds, configures and tests robots or robotic applications, as well as other automated machine processes. Provides technical support for automated and robotic systems. Experienced professional earns about \$100,000 a year	<b>ORGANIZER</b> <b>Supply Chain Strategist</b> Job description: Maps out the most effective way of getting the right product, to the right place, and at the right time. Database, system and process wizard who quickly spots patterns, risks and cost-savings even when they're hidden in mountains of data. Experienced professional earns about \$85,000 a year	<b>CODER</b> <b>Industrial App Developer</b> Job description: A computer software engineer who creates, tests and programs apps for computers, mobile phones, tablets and other electronic devices used in modern manufacturing. Experienced professional earns about \$75,000 a year

CONGRATULATIONS, YOU ARE OFFICIALLY FUTURE-FIT FOR ADVANCED MANUFACTURING!



Please visit [ForgeAheadAtlantic.com](http://ForgeAheadAtlantic.com) for more information.