Become a Computer Engineer
What is a Computer Engineer?

Computer Engineers help people, colleagues and customers, to use computer software and hardware. They will implement the organisation’s computer infrastructure including virtual machines, networks, cyber security, automation scripting, advanced servers and project management. From IT Security Administrators to Cloud Managers, this career has great growth potential!

Is it a skill in high demand?

Absolutely! There is a worldwide shortage of professionals in Computer Engineering. Upon graduation, you will be supported by the Techtorium Industry Pathways team to guide you into your career.
While you are in secondary school, you can access our short courses. These courses cover a variety of topics that are designed to give you an overview of what is to come in our full-time programs.

Contact us for more information LoveIT@tehctorium.ac.nz

## How do I start?

<table>
<thead>
<tr>
<th>Course</th>
<th>Career</th>
<th>Salary average</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>NZ Diploma IT Technical Support</td>
<td>IT Support Engineer</td>
<td>$46K-$65K per year</td>
<td>(Source: Absolute IT, January 2018)</td>
</tr>
<tr>
<td>1 year</td>
<td>120 credits</td>
<td></td>
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<tr>
<td>NZ Diploma Systems Administration</td>
<td>System Administrator</td>
<td>$66K-$90K per year</td>
<td>(Source: Absolute IT, January 2018)</td>
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<tr>
<td>1 year</td>
<td>120 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma Cloud Management</td>
<td>Cloud Architecture</td>
<td>$112K-$140K per year</td>
<td>(Source: Absolute IT, March 2018)</td>
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<tr>
<td>1 year</td>
<td>120 credits</td>
<td></td>
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What will I learn?

Automation Scripting  
Visual Studio 2017  
System Centre

PowerShell  
Hyper-V  
Server Infrastructure

Troubleshooting

Private Cloud  
Cyber Security

Hardware

Cloud Storage

Networks

Customer Support

Connectivity

Active Directory

ITIL®

Advanced Servers

Amazon

Data Recovery

Network Load Balancing

Microsoft Exchange

Windows Server

Microsoft Azure

Project Management

Web Application Proxy

Citrix Cloud

Office 365
Hi Ofelia, how did you discover your interest for Computer Engineering?

I wanted to become like my dad, I am introverted and am perfectly happy to fix things, but my dad is a mechanic and I didn’t really enjoy mechanics. I loved playing with computers and learning how they work and how putting them together.

What have you learned during your studies at Techtorium?

Everything that I learned during my time at Techtorium is what I do everyday at New Era It. Yes everything, from Active Directory to Group Policy, from Creating users to setting up PCs and much more. All of these help me get where I landed. Everything is helpful. Before I started at Techtorium, I was not confident with public speaking, I could barely do any form of presenting in-front of the class, but Techtorium pushed me out of my comfort zone. I now realise the importance of communication in every job.

You are now a System Administrator for New Era, working at Mt Roskill Grammar School. Can you tell us more?

Where I am right now (New Era IT) is a dream come true for me. At Techtorium, the first and most important thing is STUDY and they will give you the experience and what you need to know to make your career in IT come true. Techtorium staff members shaped me, taught me and they gave me the experience that I needed for interviews. All staff members will take their time to chat with you if you need any help.
Techtorium Industry Pathways managers built the partnership with New Era allowing them to recommend Ofelia’s profile for the System Administrator role.

Industry Pathways also prepare Techtorium students to become work ready by providing a range of workshops such as: goal setting, employability skills, teamwork, self-management, communication, problem solving, interview skills and CV building.

Throughout the year, the students also have the opportunity to gain communication skills and work experience as Techtorium ambassadors.
Feel free to contact us

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