



# Science, Technology, Engineering and Mathematics (STEM) Occupational Pathways

Youth Apprenticeship

## BIOSCIENCE APPLICATIONS

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Bioscience Applications youth apprentices perform biological laboratory procedures including preanalytical, analytical and post-analytical work using common laboratory equipment. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year (prerequisite Bioscience Foundations program)

**\*Bridging**

## BIOSCIENCE LAB FOUNDATIONS

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Bioscience Lab Foundations youth apprentices use laboratory equipment and tools to perform biological laboratory procedures. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year

**\*Bridging**

## CIVIL ENGINEERING

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Civil Engineering youth apprentices contribute to the development, assessment and design of highway, bridge, building and municipal construction. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year (prerequisite Engineering Drafting)

**\*Bridging**

## ENGINEERING DRAFTING

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Engineering Drafting youth apprentices perform prepare engineering drawings using current industry software, integrating concepts of building materials, engineering practices and mathematics. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year (prerequisite to Civil Engineering or Mechanical/Electrical Engineering pathway for a second year)

**\*Bridging**

## **MECHANICAL/ELECTRICAL ENGINEERING**

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Mechanical/Electrical Engineering youth apprentices use mechanical/electrical drawings to contribute to the construction of prototypes, concepts and mechanical/electrical engineering projects. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One year (prerequisite Engineering Drafting)

**\*Bridging**

Key: \*Bridging indicates where a Registered Apprenticeship bridge does not exist, one may be developed.

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