

# To be(come) #1 Technical Training Provider Post School Education and Training(PSET)

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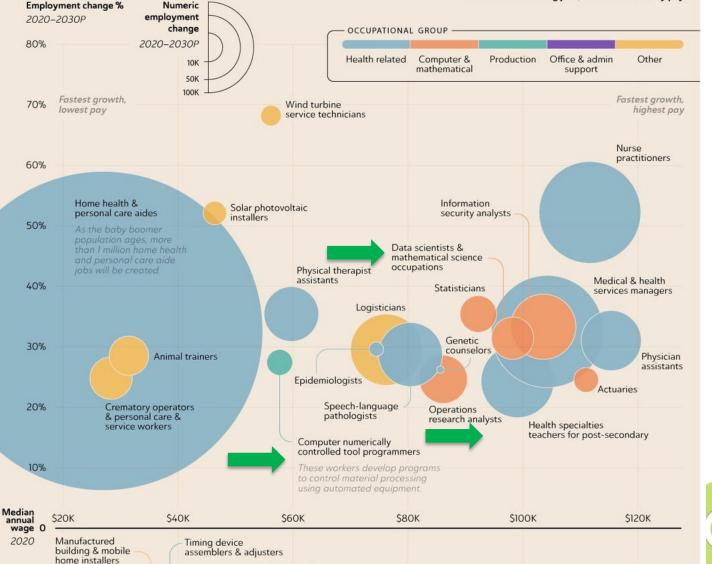
#### **Digital Twin**

Sensor sending data to be analyzed. Real time information about status of operations

## The 20 Fastest Growing + Declining Jobs

OVER THE NEXT DECADE

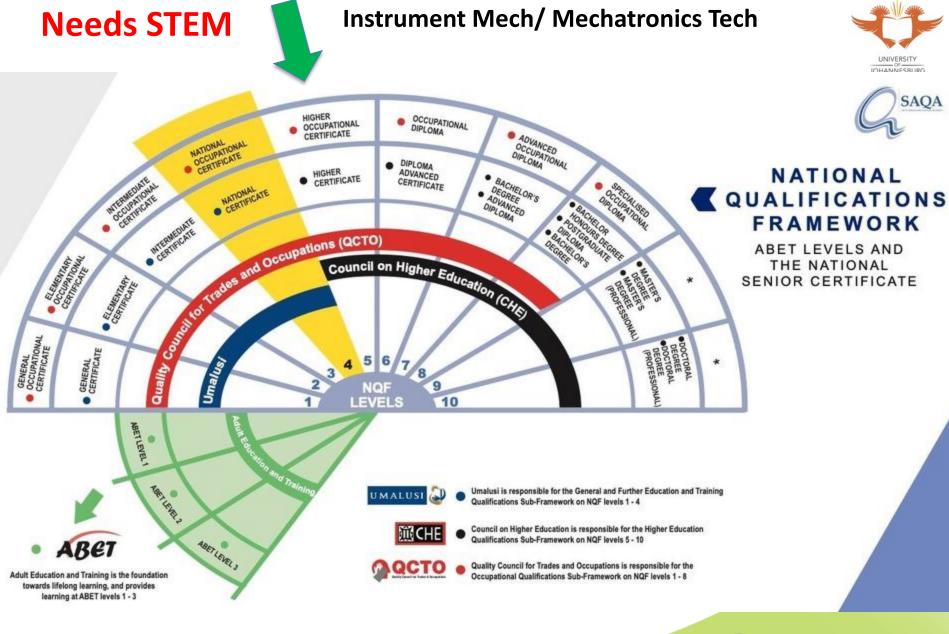
The U.S. Bureau of Labor Statistics predicts that 11.9 million new jobs will be created from 2020 to 2030— a growth rate of 7.7%. Below, we show the fastest growing and fastest declining jobs, and how much they pay.



- Legal secretaries









#### Relevant World Skills categories (1000/62/58)

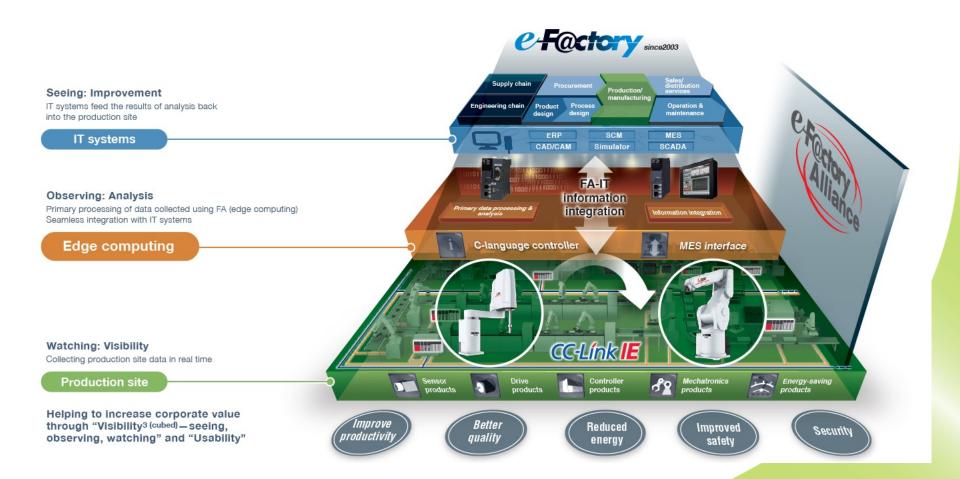


- Additive Manuf (x) SG, CN, IN
- Aircraft Maint (10/11) UK, KR, SG
- Automobile (16/23) TW, DE, CH, IT
- CNC Milling (x) CN, VN, JP
- CNC Turning (x) CN, VN, TH
- Digital Construction(x) IE, TW, FR
- Heavy vehicle (11/11) CN, LV, CH
- Industrial Control (x) CN, PT, KR
- Industrial Mech (x) JP, AT, KR
- Industry 4.0 (x) DE, CH, UK
- Mechatronics (22/25) JP, TW, CH
- Mobile Robotics (14/17) CN,KR,JP
- Prototype model (x) TW, JP, IN
- Robot Sys Integr (x) DE, TW, PL
- Water Technology (7/7) SG, IN, JP

- Autodesk, Creality, Ultimaker
- Cardiff college, Fluke, Mitutoyo
- Electude, Fluke, JohnBean
- DMG Mori, Mastercam, Mitutoyo
- DMG Mori, Mastercam, Mitutoyo
- Autodesk, Saint Gobain
- None (Bell?)
- Fluke, StanleyBlack & Decker
- StanleyBlack & Decker
- Festo
- Festo
- Studica
- Autodesk, Mitytoyo, Stanley
- Fanuc
- Festo

### 4 IR in the Factory and application for Training





#### Future of Work – Industry 4.0



- Factory- & Process Automation (Internet of Things)
  - Arduino/ Rasperry Pi / PIC
  - Programmable Logic Controller or PLC
- Coding(Programming) Linked to Arduino, Rasperry Pi
- Design for Additive Manufacturing(DfAM) Digital Twin
  - CAD/CAE/CAM/CNC Programming/3DP/Tool & Die Making
- Robotics (future link to Artificial Intelligence or AI)
  - Festo Didactic (linked to factory automation)
  - Industrial Robots (from one of the Top 10 Manufacturers)



#### The end