



Department of School Education

Sheet No.127

Career of the Day Monday

Computational Scientist

Date 28/03/2022

What is it really?

Computational Scientists are called in when studying a natural system (Physical, chemical, biological, environmental etc.) or solving a complex scientific problem (such as out of 2000 probable genes which one is responsible for certain disease) require dealing with massive amount of data throughout- or putting it simply a massive amount of data inputs and analysis. This type of data analysis cannot be done by simple computing that we do using data analytic software on our computers but requires high performance computing (HPC) or high throughput computing (HTC).

Pathway 1

Class 10th with all subjects as per scheme of studies → +2 in Science Stream with Physics, Chemistry and Mathematics → B.E/B.Tech in computer Science and Engineering → M.E/M.Tech. in Computer Science and Engineering

Pathway 2

Class 10th with all subjects as per scheme of studies → +2 in Science Stream with Physics, Chemistry and Biology → Bachelor's degree in any of the Life Sciences → Post graduation Internship/summer projects

Colleges/Universities

1. IIT Ropar 2. Guru Nanak Dev Engineering College, Ludhiana 3. GNDU Amritsar and Many more

For details contact School Counsellor or visit Punjab Career Portal
<http://punjabcareerportal.com> and [Mashaal Website:-](http://mashaal.ssapunjab.com)
User ID: Student's E-Punjab ID
Password: 123456

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Mon- Sciences, Tuesday- Emerging Career, Wednesday- Arts, Thursday- Commerce
Friday- Sports, Saturday- Entrepreneurship/Vocational/ NSQF/ Employment Generation