

HEADSTART

Designed for students full of talents and dreams who are just beginning the process of exploring their talents and their options, HeadStart encourages the student to first expand his or her world of career choice and then focus it down to the Top Five areas.

HeadStart recommends

- ⇒ Top Five careers that match interests and strengths
- ⇒ Suitable subject streams

ARVIND RAVI

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> > YOUR PROFILE

This section describes Arvind's

- Career Interests
- Signature strengths profile
- Subjects Profile

ARVIND'S CAREER INTERESTS

These are Arvind's own interest areas based on our interactive sessions covering over 80 viable and contemporary career opportunities.

High Interest Careers



Medicine: Clinical, Surgery, Diagnostics
 Engineering: Chemical: Others
 Biotechnology
 Scientific Research
 Computers, Software Development, Networking & Testing
 Social Sector
 Art, Painting
 Design, Graphics
 Design, Fashion, Interior, Textiles
 Design, Web, Product
 International Relations

Medium Interest Careers



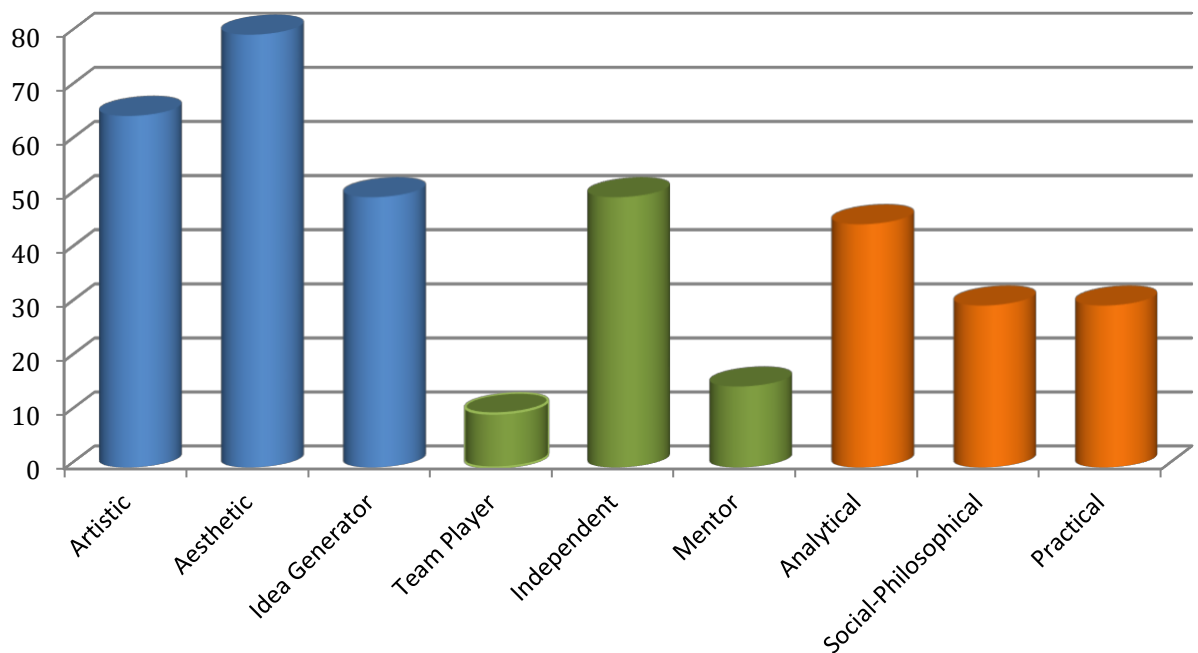
Architecture
 Finance: Chartered Accounting (CA)
 Advertising: Creative
 Teaching, Middle & Senior
 Teaching, College & Post Graduate
 Psychology, Clinical, Child
 Art, Writing

Threshold Interest Careers



Management: Sales & Marketing
 Management: Human Resources
 Data Science / Data Analysis
 Journalist: Editor
 Cinematography

ARVIND'S SIGNATURE STRENGTHS



CREATIVE STRENGTHS

INTER-PERSONAL STRENGTHS

INTELLECTUAL STRENGTHS

Creative- Artistic/ Aesthetic/ Idea Generator

You have a well-developed sense of what looks good and sounds good. Your aesthetic skills lead you to understand and appreciate that which is tasteful. You enjoy working with colors, textures, layout, musical instruments etc to create appealing visuals and sounds. You are good at learning creative skills and performing.

You thrive on creative expression through the arts - writing, music, painting, drama, sculpture. While you have developed your skills in your chosen artistic domain, you are highly sensitive to all art forms. You are easily inspired by new forms and unique artistic forms and expressions. You enjoy reaching out to people through your art. Though artistic, you are not at all reclusive and you find that you need people interactions to find inspiration. You relate to people easily and enjoy working with others to get things done. You are skilful at building and maintaining effective relationships with new and varied people. You enjoy belonging to a larger team or vision.

Interpersonal- Independent

You work best in your “own” space with minimum distractions. You may or may not enjoy belonging to a team, but your best work is done alone. You are enthused by your own ideas, thoughts and goals. Excellent at setting goals and achieving them, you convert almost all aspects of your life to a project and move from goal to goal. Often uncomfortable when pushed into crowds, you enjoy being with people you know well. You express yourself best in writing or well-researched presentations.

ABOUT SIGNATURE STRENGTHS

A Signature Strength is a bit like a fashion statement – this is who I am. This is Me. I do this naturally, without trying too hard. I love to do this. I don’t know why. It’s just the way I am.

Based on over 10 years of working across age groups with career choices, Signature Strengths was developed by the Inomi team to be a simple tool for people to identify their core Strengths. This instrument has been vetted by professors and independent consultants who specialise in psychometric evaluations.

A Signature Strength is not limiting. It does not mean that this is all I do or that I am bad at other things. It simply means that when I do this, my natural intelligence takes over; I don’t have to watch myself too closely and somehow know what to do. As I use this Strength through my work and life, my skill and effectiveness in this grows. And as I build a life that keeps me more and more in my Signature Strength zone, I enjoy myself and the best of me again and again. And before I know it, I am already in the throes of a life-long love affair with myself!

Can I have more than one Signature Strength? Over the years, we have found that most people have two and some have three. For some, these stand above all other Strengths with compelling authority and for some these are supported by many complementary Strengths. It helps to focus on the top two or top three Strengths and choose work that best leverages these after which one could allow it to tap into all other supporting aspects of the self.

ARVIND'S SUBJECTS PROFILE

Performance and interest across subjects

YOUR SUBJECTS PROFILE

Performance and interest across subjects

High Comfort Areas

(Subjects in which you show high to medium performance and high interest)

History & Civics

Geography

Biology

Art

Chemistry

Math

Medium Comfort Areas

(Subjects in which you show high to medium performance but low interest)

Computers

Hindi

Challenge Areas

(Subjects in which you show low performance but medium or high interest)

English Language

Low Comfort Areas

(Subjects in which you show low performance and low interest)

> > RECOMMENDATIONS

In this section, we have put together insights from Arvind's Signature Strengths, subjects profile and career interests to recommend

- Optimal subjects for senior school
- Potential career areas to explore with these

MATCHING ARVIND'S CAREER INTERESTS TO STRENGTHS

STRENGTHS >>>	HIGH	Cinematography	Architecture Advertising: Creative Art, Writing	Art, Painting Design, Graphics, Fashion, Interior, Textiles, Web, Product
	MEDIUM	Sales & Marketing Human Resources Data Science / Analysis Journalist: Editor		Computer Science Scientific Research Engineering: Chemical Biotechnology
	LOW		Teaching Psychology Chartered Accounting	Social Sector International Relations Medicine
		THRESHOLD	MEDIUM	HIGH
		INTERESTS >>>		

☆ **Star Careers** (High to medium strengths + High Interest)

- ⇒ Art, Painting
- ⇒ Design, Graphics, Fashion, Interior, Textiles, Web, Product
- ⇒ Architecture
- ⇒ Advertising: Creative
- ⇒ Art, Writing

✓ **Other Suitable Careers** (Medium to high strengths + interests)

- ⇒ Computers, Software Development, Networking & Testing
- ⇒ Scientific Research
- ⇒ Engineering: Chemical
- ⇒ Biotechnology

SUBJECT REQUIREMENTS FOR STAR, SUITABLE CAREERS

Art, Painting	-
Design: Graphics, Fashion, Interior, Web, Product	-#
Architecture	Physics, Chemistry, Maths
Advertising: Creative	-
Art, Writing	-
Computers, Software Dev, Networking & Testing	-**
Scientific Research	Physics, Chemistry, Maths/Bio
Engineering: Chemical	Physics, Chemistry, Maths
Biotechnology	Physics, Chemistry, Maths/Bio

** While most Computer Science and BCA courses require Maths, some universities offer BCA courses to students without Maths

#Some Interior Design and Product Design courses prefer students with Maths and Physics

These subject restrictions are mostly relevant for Indian universities. While several foreign universities do not have rigid restrictions, these subjects mentioned would be desirable for these courses.

RECOMMENDED PATH

A warm and creative person, Arvind, you live with dreams of making a positive impact in the world. A person with diverse interests, you appreciate varied viewpoints to any issue or problem. You like to work alone or in small groups of people. Deeply creative, you are looking for work that allows you to express your creativity.

Artistic careers, while exciting, pose a great deal of challenge on financial and professional stability. The media explosion has led to many television channels, music videos and radio channels. The prospects for Music, Acting, Modeling, Camera, Script Writing etc. are, therefore, better than they were ever before and it is not difficult to get a break. However, it takes 10-20 years and a lot of factors such as diligence, guidance and pure good luck for people with talent to make a financially successful career through art. Successful artists in all fields recommend that you train in and pursue a mainstream career to find your feet while continue your training and practice of your art. You can make a switch to pursuing your art full-time at any stage when you either find financial and emotional security or find good opportunities for expressing your art.

We recommend that you start exploring Design as a career. This is a great time for Designers as corporate growth has led to increased demand for professional Design in all areas: Fashion, Graphics, Products and Interiors – be it commercial offices, shopping malls, restaurants and hotels or residential complexes. There are, therefore, several work opportunities in this field both in terms of formal employment as well as for entrepreneurial and individual Designers. Interior Design and Fashion Design provide growing work opportunities given the spurt in construction and retailing of branded garments in the country.

Graphic Design, on the other hand, will give you opportunities to work in the creative side in Advertising agencies as well. Several graphic designers work in media with television channels and magazines managing graphics, layouts, special effects and presentation. Visual Communication design courses offer both Graphic Design as well as Media inputs. This would be a highly suited course for you. Several Designers set up their own firms – either independently or in partnership – after working in the field for 5-10 years.

The best Design courses are available as 5-year integrated courses right after Class XII and allow you to explore all aspects of Design before you choose a specialization.

There are no subject restrictions in Class XII as such for Design courses, through some institutes prefer students with technical courses. A good portfolio that showcases your creativity goes a long way in improving your chances of

admission and we recommend that you work on building such a portfolio during school.

Architecture also comes close to providing a challenging and fulfilling environment for both your imagination and your technical expertise. Architecture offers ample scope for you to use your skills of analysis and problem-solving and provides you more opportunity to satisfy your goals of creativity, autonomy and wealth. Architects' duties demand a variety of skills like designing, engineering, managerial and supervisory tasks. The challenging part is that it often takes 10-15 years for an architect to establish themselves and get really high-value projects.

Alternately, Computer Science is an ideal vehicle for you to access many creative and high-growth fields. Interaction Design, Game Design as well as Analytics allow creative application of technology in many fields including Finance, Education, Retailing and many others. It will also be an excellent choice to provide a pathway towards Animation, Graphic, Web, UI/UX Design. You can go on to work in Design after completing the course. In a year or so, you should have a fair insight into the attractiveness and suitability of both these career options. If design holds your interest, you will have plenty of opportunities to follow that route.

Scientific Research, particularly applied research and product development also holds your interest and will offer many creative options – though these will also be slow to build and develop.

The recommended subject stream will allow you to explore all these options.

Recommended Subject Stream For Class IX and X

Group I: English Lang and Lit, History & Civics, Geography, Spanish

Group II: Maths, Physics, Chemistry, Biology

Group III: Robotics & AI*

** We feel that Arvind is studying Art well by himself and can explore technology a little more deeply. The Robotics & AI course is more diverse and creative than the Computer Applications course which focusses on programming alone*

Top Careers for you with this subject stream:

1. Design, Graphics, Fashion, Interior, Textiles, Web, Product
2. Architecture
3. Advertising: Creative
4. Art: Painting, Writing

Other Suitable careers

1. Computers, Software Development, Networking & Testing
2. Scientific Research: Applied Research and Product Development
3. Engineering: Chemical / Biochemical
4. Biotechnology

> > **DEVELOPMENT RESOURCES**

Short courses, reading resources and videos to learn more about the career areas recommended

EXPLORING DESIGN

SHORT COURSES

US-based

- [Savannah College of Art & Design](#)
- [UCLA Design Media Summer Arts Institute](#)
- [Columbia University summer courses in Visual Arts](#)
- [Parsons Summer Program](#)

India and Asia-based

- [Savannah College of Art & Design Hong Kong](#)
- [ISDI Parsons Summer School in Delhi, Gurgaon, Mumbai, Bangalore, Kolkata](#)
- [Rhode Island School of Design Gurgaon](#)

UK and Europe-based

- 2 weeks course in Industrial Design at [Quasar Summer School](#), Rome.
- [University of the Arts London](#)
- [Arts University Bournemouth](#)

ONLINE AND DIGITAL RESOURCES

- [Design Thinking for Innovation](#) by the University of Virginia on Coursera
- [Visual Elements of User Interface Design](#) by Calarts on Coursera
- [Introduction to User Experience Design](#) by GeorgiaTech University on Coursera
- [Fundamentals of Graphic Design](#) by Calarts on Coursera

READING LISTS AND VIDEOS

1. [The Design of Everyday Things](#), Donald A. Norman
2. [Creative Confidence](#)., David and Tom Kelly
3. [25 Epic graphic Design Tips for Non Designers](#)
4. [Essential Graphics/Design Concepts for Non-Designers sign-suite-basics/](#)
5. So you want to be an architect- [Part 1 to 7 video series](#) by Doug Patt
6. [How to Design a Print Portfolio](#) by Karen Kavett
7. [How to Design Your Blog](#) by Jordan Dooling
8. [How To Become a Graphic Designer](#) in 2016-Roberto Blake
9. [The First Secret of Great Design](#) | Tony Fadell | TED Talks

EXPLORING ARCHITECTURE

SHORT COURSES

US and Canada-based

Boston University course in Visual Arts

bu.edu/summer/high-school-programs/summer-challenge/seminars.shtml

Pratt Institute, [Architecture Summer course](#)

[Architecture Career Discovery Program](#), Rennsler Polytechnic Institute

[Architecture & Landscape Architecture](#), The University of British Columbia, Vancouver

[Architecture: Adaptable Spaces](#), Rhode Island School of Design

ONLINE AND DIGITAL RESOURCES

Harvard University, [The Architectural Imagination](#)

[Japanese Architecture and Structural Design](#), TokyoTech

[Models in Architecture – design through physical & digital models](#), TUDelft

MIT '[Introductory course, A Global History of Architecture](#)'

[Making Architecture](#), IE School of Architecture & Design

[Yale University](#), Roman Architecture

READING LISTS AND VIDEOS

[The Story of Buildings: From the Pyramids to the Sydney Opera House and Beyond](#) *Patrick Dillon, Stephen Biesty*

[The Art of Construction: Projects and Principles for Beginning Engineers & Architects](#) *Mario Salvadori, Saralinda Hooker and Christopher Ragus.*

[Engineering the City: How Infrastructure Works](#) *Matthys Levy, Richard Panchyk*

[Draw 50 Buildings and Other Structures: The Step-by-Step Way to Draw Castles and Cathedrals, Skyscrapers and Bridges, and So Much More.](#) *by Lee J. Ames*

[Archidoodle: An Architect's Activity Book](#), Steve Bowkett

[Why Buildings Stand Up: The Strength of Architecture Paperback](#) *by Mario Salvadori*

[So you want to be an architect- Part 1 to 7 video series](#) *by Doug Patt*

[Creative Confidence: Unleashing the Creative Potential](#) *by David and Tom Kelly*

EXPLORING MEDIA

READING LISTS AND VIDEOS (Communication and Public Relations)

1. [12 PR Blogs Your Competitors Are Reading \(And 3 They Don't Yet Know About\)](#)
2. [The New Rules of Marketing and PR: How to Use Social Media, Online Video, Mobile Applications, Blogs and Viral Marketing to Reach Buyers Directly](#) by David Meerman Scott
3. [Social Media: Marketing Strategies for Rapid Growth Using Facebook, Twitter, Instagram, LinkedIn, Pinterest and YouTube](#) by John Williams
4. [Trust Me, I'm Lying: Confessions of a Media Manipulator](#) by Ryan Holiday
5. [Multimedia Storytelling for Digital Communicators in a Multiplatform World](#), Seth Gitner

SUMMER PROGRAMS (Communications and Public Relations)

1. [Summer School Digital Tools For Humanists - an introduction](#), University of Pisa, Italy
2. [Debating Summer School Program](#) at Yale or Saint Andrews
3. [Business Communication & Presentation](#), Capitol Debate

ONLINE COURSES (Communications and Public Relations)

1. [Business Communications](#) by University of British Columbia
2. [Effective Business Communication](#), IIM Bangalore
3. [Business Communication](#), by RIT
4. [Communicating Strategically](#) by Purdue University
5. [Principles of Public Relations](#), University of Colorado Boulder
6. [Integrated Marketing Communications](#): Advertising, PR, Digital Marketing, IE Business School
7. [Communication Strategies for a Virtual Age](#), University of Toronto

READING LISTS AND VIDEOS (Advertising and Marketing)

1. [Buy Me That: Helping Kids Understand Advertising](#)
2. [RSA Marketing: Science of Persuasion](#)
3. [Marketing Lemonade](#)
4. [Choice, happiness and spaghetti sauce | Malcolm Gladwell](#)
5. [45 Fabulous Facebook Advertising Tips & Magic Marketing Tricks](#)
6. [Don't Buy It - get Media Smart](#)
7. [Read write think](#)

ONLINE AND DIGITAL RESOURCES (for journalism)

[Journalism for Social Change](#), UC Berkeley

[Global Muckraking: Investigative Journalism and Global Media](#), Columbia Univ

[The Story of Fake News](#), Davidson,

[Making Sense of News](#), HK Univ

[Fake News, Facts, and Alternative Facts](#), UMich

[Journalism, the future, and you!](#) Michigan State Univ

[Transmedia Storytelling: Narrative worlds, emerging technologies, and global audiences](#), UNSW

[Script Writing –Free eBook](#)

[Indian Freelance Writers Blog](#) has interesting suggestions on Journalism and Editing

READING LISTS AND VIDEOS (for journalism)

1. [She Said: Breaking the Sexual Harassment Story That Ignited a Movement](#), Jodi Kantor
2. [Are we living in a golden age of journalism](#) Tom Englehardt
3. [What is Journalism](#) Robert Niles
4. [Anita Li: The Power of Digital Journalism](#)
5. BBC Journalism Skills – [Principles of Writing Good News](#)
6. [What is the difference between Expression and Journalism](#)
7. [John Lloyd on the Future of Journalism](#)
8. [Lessons in Investigative Journalism](#) – Carol Marin

SHORT COURSES (Film Making)

US and Canada-based

ISSOS Summer School at Yale, St Andrews and Cambridge [Film summer school](#)

New York University, Tisch School, [Summer High School Filmmakers Workshop](#)

UCLA, [Digital Filmmaking Summer Institute](#)

Columbia University, [Digital Filmmaking: From Initial Concept to Final Edit](#)

Stanford University [Social Psychology of Large-Scale Media Interventions](#)

India-based

Inomi prepLABS, [Film Making](#)

UK-based

Nottingham Trent university [Short course on Film Journalism in the Digital Age](#)

Nottingham Trent University [Television Presenting Short course](#)

London College of Communication [Summer course Communication & Advertising](#)

READING LISTS (Film Making)

1. [Television Is the New Television](#), Michael Wolff
2. [Writing the TV Drama Series: How to Succeed as a Writer in TV](#) by Pamela Douglas
3. [I Want My MTV: The Uncensored Story of the Music Video Revolution](#) by Rob Tannenbaum
4. [Not Just Bollywood: Indian Directors Speak](#) by Tula Goenka
5. [Speaking of Films](#) by Satyajit Ray
6. [The Filmmaker's Handbook](#) by Steven Ascher and Edward Pincus
7. [Film Lighting: Talks with Hollywood's Cinematographers and Gaffers](#) by Kris Malkiewicz
8. [Painting With Light](#) by John Alton
9. [Cinematography: Theory and Practice](#) by Blain Brown
10. [50 Films That Changed Bollywood, 1995-2015](#) by Gupta Shubhra

VIDEOS TO WATCH (Film Making)

[The Power of Film Playlist](#)

EXPLORING IT

US-based programs

[California State Summer School for Mathematics and Science \(COSMOS\)](#)

Stanford Pre-Collegiate Summer Program: [Introduction to Programming](#); [Game Design](#); [Web Technologies](#); [Artificial Intelligence for Robots](#);

[John Hopkins Centre for Talented Youth](#)

Google for Education, [Computer Science Summer Institute](#),

India-based programs

[Young Technology Scholars](#), A introductory program to technology and innovation for Grades 9 to 12

[Camp K12](#), a series of offline courses in app, web, game development for all ages

Videos to Watch

[The Promise of Quantum Computers](#)

[Don't fear Intelligent Machines, Work with Them](#) by Gary Kasparov

[The High Stakes race to make Quantum Computers Work](#)

[3 Principles for Creating Safer AI](#)

[Can we build AI without listing control over it?](#)

[How Computers are Learning to be Creative](#)

[The Incredible inventions of Intuitive AI](#)

Reading List

[The Soul of a New Machine](#), Tracy Kidder

[Where Wizards Stay Up Late](#): Origins of the Internet, Katie Hafner, Matthew Lyon

[Code: The Hidden Language of Computers](#), Charles Petzold

[Superintelligence: Paths, Dangers, Strategies](#), Nick Bostrom

[Don't Make Me Think](#), Steve Krug

[The Code Book](#), Simon Singh

[Thinking in Systems](#): A Primer, Donella H. Meadows

Online Courses

[CS50's Introduction to Artificial Intelligence with Python](#), Harvard University

[AI for Everyone](#): Master the Basics, IBM

[Introduction to the Internet of Things and Embedded Systems](#), Univ of California, Irvine

[Cybersecurity Specialization](#), University of Maryland

[Cybersecurity Basics](#), IBM

[Introduction to Cybersecurity Tools & Cyber Attacks](#), IBM

[Cybersecurity Fundamentals](#), Rochester Institute of Technology

PHYSICS

Videos to watch

[YouTube Channel: Physics World](#)

[Questioning the Universe by Stephen Hawking](#)

[YouTube Channel: Quantum Gravity Research](#)

[Harry Cliff: Have we reached the end of physics?](#)

[Which Science is the Most Basic?](#) By Cheryl Brin

[CERN's SuperCollider](#) by Brian Cox

[This telescope might show us the beginning of the universe](#) by Wendy Freedman

[Is our universe the only universe?](#) By Brian Greene

[How we explore unanswered questions in Physics](#) by James Beacham,

[The search for planets beyond our solar system](#) by Sara Seager

[YouTube Channel: NWO Physics](#)

[Massachusetts Institute of Technology, Department of Physics](#) by WebsEdgeEducation

[What the Discovery of Gravitational Waves Means](#) by Allan Adama

Online courses

[Mechanics: Motion, Forces, Energy and Gravity](#), from Particles to Planets from UNSW Australia (The University of New South Wales)

[Particle Physics: an Introduction](#) from University of Geneva

Understanding Einstein: [The Special Theory of Relativity](#)

BIOLOGY

Video

[YouTube Channel: Into Biology](#)

YouTube Channel: [Bozeman Science](#)

Beginning the Journey: [Research Biology by Genetech](#)

[A good research question should open doors in biology](#) - Nobel Laureate Bruce Beutler by NobelPrizell

[50 Good Topics for Research in the Field of Biology](#) by Get Science and Technology,

[Biology Research - Regenerating Retina Cells](#) by miamiuniversitycas

[Biologist Explains One Concept in 5 Levels of Difficulty](#) - CRISPR | WIRED

[Stanford researchers create Interactive Biology Cloud Lab](#) by Stanford

Online Courses

[Essential Human Biology: Cells and Tissues](#) from the University of Adelaide

[Introduction to Systems Biology](#) from Icahn School of Medicine at Mount Sinai

[Advanced NeuroBiology II](#) from University of Peking

[Understanding Plants - Part II: Fundamentals of Plant Biology](#) by Tel Aviv University

CHEMISTRY

[Chemistry Matters: The Life of a Chemist](#) by Nobelprize.org

YouTube Channel: [Reactions](#)

YouTube Channel: [Royal Society of Chemistry](#)

YouTube Channel: [What Chemists Do](#)

YouTube Channel: [American Chemical Society](#)

YouTube Channel: [C&EN](#)

YouTube Channel: [Periodic Videos](#)

The Nobel Prize in Chemistry: [Molecular Machines, Explained](#) - Speaking of Chemistry, by Reactions

Chemistry careers - [A day in the work life of a chemist](#) by careersnz

[The Line Between Life and Non-Life](#) by Martin Hanczyc,

[What the sugar coating on your cells is trying to tell you](#) by Carolyn Bertozzi,

[Research Chemist](#) by Gigniks

[The Magic of Chemistry](#) - with Andrew Szydlo by The Royal Institution

[Careers in Chemistry](#) by York University Career Centre,

Online courses

[Chemistry](#) by University of Kentucky

[Introduction to Chemistry: Reactions and Ratios](#) by Duke University,

[Introduction to Physical Chemistry](#) by University of Manchester,

[General Chemistry: Concept Development and Application](#) by Rice University,

EXPLORING ENGINEERING

SHORT COURSES

US and Canada-based

Boston Leadership Institute:

www.bostonleadershipinstitute.com/applied-physics-and-engineering.html

www.bostonleadershipinstitute.com/engineering-research1.html

University of Pennsylvania, [The Engineering Summer Academy at Penn](#)

Stanford University, [Stanford Pre-Collegiate Summer Institutes](#)

University of Toronto, [Da Vinci Engineering Enrichment Program \(DEEP\)](#)
Summer Academy

University of Connecticut, [School of Engineering](#)

[GeorgiaTech University Summer programs](#)

India-based

[Young Technology Scholars](#), A introductory program to technology and innovation for Grades 9 to 12

READING LISTS AND VIDEOS

1. James Trevelyan "[The Making of an Expert Engineer](#)"
2. [Grand Challenges for Engineering](#), National Academy of Engineering, Steve Olson
3. [Engineering: A Very Short Introduction](#) by David Blockley
4. [101 Things I Learned in Engineering School](#) by John Kuprena
5. [The Promise of Quantum Computers](#)
6. [Don't fear Intelligent Machines, Work with Them](#) by Gary Kasparov

ONLINE COURSES

1. [Ethics, Technology and Engineering](#), from Eindhoven Institute of Technology
2. [The Engineering of Structures Around Us](#), Dartmouth
3. [Engineering Design for a Circular Economy](#), TU Delft
4. [A Hands-on Introduction to Engineering Simulations](#), Cornell University