



Imagine the world in the future changing with virtual reality!

Learn what are the core technologies that create virtual reality contents, and see what virtual reality will be like in the future.

Career Net (www.career.go.kr) > Career Video > Elementary School Students >

Virtual Reality



National Center for Parents Education www.parents.go.kr

You can even go on trips to other countries with virtual reality.

I will be a future astronaut, go to Mars, meet aliens, and talk to them.

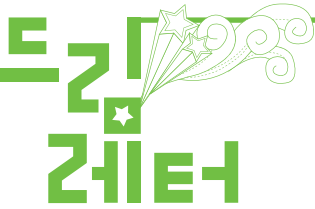
You can try your future job.

You can try bungee jumping or enter a haunted house – things you were too afraid to do in real life.

Virtual Reality (VR) is a cutting edge technology that enables you to have life-like experiences in a simulated imaginary world. What do you think of the technology that makes things you don't actually do look real? Find out with your children what virtual reality experts do.

Imagine Your Dream World





We have put some questions to a virtual reality expert who expresses an imaginary world with IT and design. Shall we enter the world of virtual reality?



Creativity

Imagination

Virtual Reality Expert

Teamwork

Empathetic
Communicative
Skills



Q1. What type of abilities do you need to be a virtual reality expert?



You need imagination and creativity to understand the types of virtual reality to people want, and to develop them. You would also need the ability to collaborate as you will work with experts in various fields including the humanities, science, technology, and design. In addition, you need a broad perspective and analytical thinking ability for understanding space and time and system analysis. Since technologies and computer languages used by different fields of experts are fused to make virtual reality, it is helpful to possess tolerance, team spirit and empathetic communicative skills.

Q2. I want to know about the process whereby a virtual reality expert creates contents.



Mr. A, a virtual reality expert, creates VR safety education contents with the Korea Occupational Safety and Health Agency. He draws negligent accidents that can happen in industrial settings with 3-D computer graphic, designs a virtual reality system that people can use, and tests to see if there are any errors. With final modifications, it is complete! Safety education contents created by Mr. A help people experience negligent accidents more vividly and be more careful.

Q3. Tell me about the future prospects for virtual reality expert jobs.



Virtual reality is applied not only to games and entertainment, but also in many other fields such as medical care, industries, and autonomous vehicles. Therefore, it is a promising job in which employment in its various related fields will steadily increase over the next ten years. (Source: Work Net Career Information, as of July 2019)



Experience the online exhibition hall at the
National Museum of Korea.
National Museum of Korea (www.museum.go.kr)
> Exhibits & Events > Exhibits Online



Virtually experience your future job!

Future Job Experience Reality Contents

From a flying car transportation system designer to AI consultant!
Experience future jobs with virtual reality!

Contents Virtual experience of future jobs

How to Use Download the mobile app with QR code and play

- ※ You can use this content in 3-D without a VR device (HMD)
- ※ For more details, refer to [Career Education Material] at 'Career Net (www.career.go.kr)'

사람들



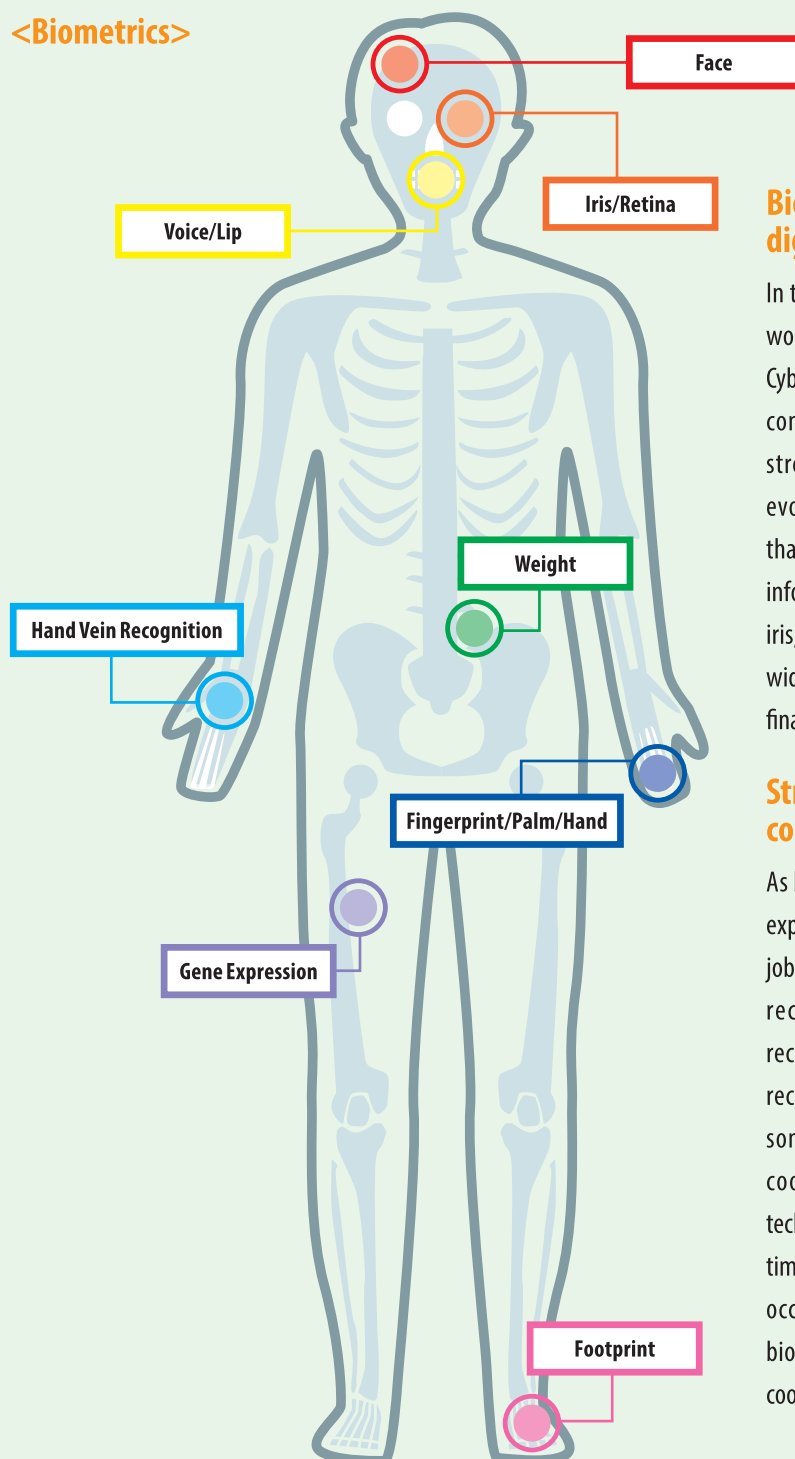
▲ Play Store
(For Android)



▲ App Store
(For iOS)

A World Opening with Biometrics, Dealing with High-tech Bioengineering

<Biometrics>



Bio-data to protect information in today's digital world

In the era of the Fourth Industrial Revolution and in the digital world, the most important thing today is 'information security.' Cyber crimes that illegally access computer networks with harmful consequences are evolving every day. The technologies that strengthen security to prevent cyber-hacking have also been evolving. Among these technologies, 'biometrics' is the one that boasts of the best security levels. Biometric techniques use information that is different for each person such as fingerprints, iris, blood vessels, etc. as passwords. Biometrics is already being widely used in our daily lives, such as for unlocking smartphones, financial transactions, door locks, etc.

Stronger Security developed through cooperation

As biometric technology advances, global interest in biometrics experts and biometric system developers is also growing. Related jobs are specifically divided into each biometric field. Fingerprint recognition experts, face recognition experts, signature recognition experts, hand geometry recognition experts, vein recognition experts, and gesture recognition experts, are just some of the examples. Recently, these experts have started cooperating with each other to develop multi-biometrics technology. The importance of security will only become greater as time goes by, and the jobs related to biometrics will be promising occupations of the future. Furthermore, experts in different biometrics fields may develop stronger security technology by cooperating with each other.



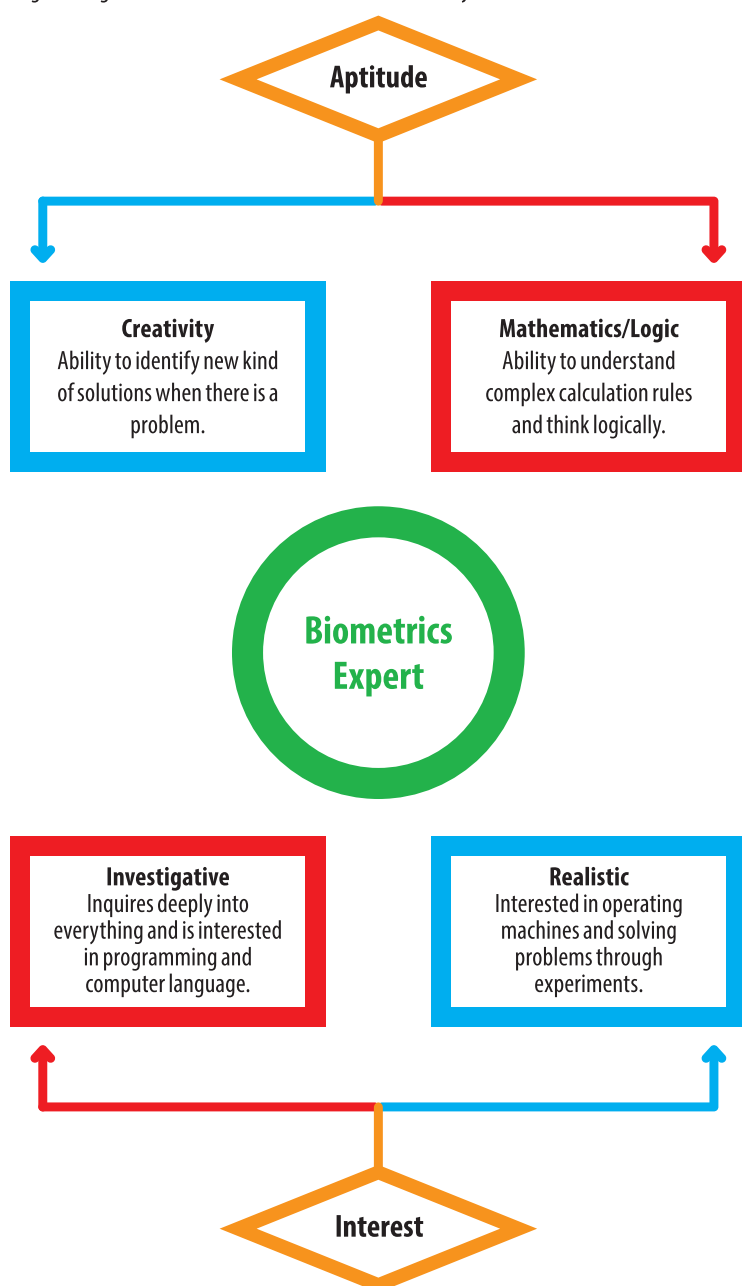
When the world opens, new jobs are created!

Opening the World of Future Jobs with Biometrics

Brighter future through knowledge of biometrics experts

Biometrics experts and biometric system developers may have similar aptitudes, interests, and abilities to other engineers and developers. But, they have been the first to notice the changes occurring in the world and prepared for their future careers. It is thus important to explore new fields in which you can display your abilities in career exploration and career choices.

Biometrics expert is a job created from the development of technology and industry. Discover the aptitudes and interests fit for a biometrics expert and see if they match your child's. If your child seeks to go into science and engineering, look for various new jobs or unique jobs related to science and engineering. Your child will be able to visualize the new jobs that will be created in the future through exploring the jobs together with parents.



What are some of the future jobs that are today drawing attention? Let's learn about the jobs that are emerging in other countries but not seen in Korea yet. It will help your child become a professional career person leading the way in the future. In addition, you are advised to look at some unique future jobs such as biometrics expert. You can find new and unique jobs at WorkNet Career Information. Find the jobs related to your child's career field and learn in detail what people in these careers actually do, plus how to prepare for it, its future prospects, etc.

※ WorkNet (www.work.go.kr) > Occupation/Career > Career Information > 'Find new/creative jobs' or 'Find unique jobs'



Go to Find Career Information ▶



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The Changing World of Jobs, What Are the Promising Careers of the Future?

Some promising jobs that cannot be replaced by machines are introduced. Korea Research Institute for Vocational Education & Training **Career Net** (www.career.go.kr) > Career Videos > High School Students



Looking at the jobs that may appear in the future with the seven future change trends



Source: Career Net (www.career.go.kr) > Career Videos > [Middle School] Understanding the changes in jobs and planning my future career

Changes in Jobs Through the Years, What Will Come in the Future?



Green Jobs that Deal with Global Warming

Climate-change expert, future agricultural expert, electric car developer



Cutting-edge Technology Jobs that Lead the Fourth Industrial Revolution

3-D print expert, virtual reality expert, drone expert



Global & Multicultural Jobs

International development cooperation expert, multicultural language instructor, international conference expert



Bio-healthcare Jobs

Functional foods researcher, smart healthcare planner, biometrics expert



Jobs that Fuse Existing Industry and IT

Emotion recognition developer, forensic scientist, disaster expert

According to the Bureau of Labor Statistics in the United States, the late baby boomers (born in 1957~1964) have changed their jobs 11.3 times on average between 18 to 46 years of age. Although this is data from another country, it can be an example of what awaits our Korean society in the future. Following the changes in scientific technology such as artificial intelligence, bio-technology, big data, etc., there will also be changes in the occupational world. Discover your child's dream, predicting the future jobs over the rapidly changing years.



"Our children in the future will experience various professions throughout their lifetimes. If each child's ability is respected and developed, the child will grow through continuous change and expansion, and create a meaningful history for himself/herself."

- Youngbog Hong (Indiana State University, Herron School of Art & Design), from career education newsletter Dream Letter 2013

Let's find out the reasons why jobs of the past that many people worked in have disappeared, and what they changed to.

Past job	Reason for disappearing	Replacement
Rickshaw puller	Advancement of transportation	Subway operator, bus driver, taxi driver
Movie poster painter	Development of photography techniques	Poster designer, photographer

Guide for children to prepare for future jobs

Find out the abilities that your children need to equip themselves with to prepare for future jobs, and what parents can do to help develop such abilities.

National Center for Parents Education
(www.parents.go.kr)

- > Career education material
- > Career recipe



What kind of jobs will be created when you add future technology to existing jobs?

Current job	Farmer			
Future technology	High-tech farming skills			
Future job	Smart farm agriculturist			
What do they do?	Manage the growing conditions of crops by utilizing information and communications technology (ICT), and increase productivity with robots.			

