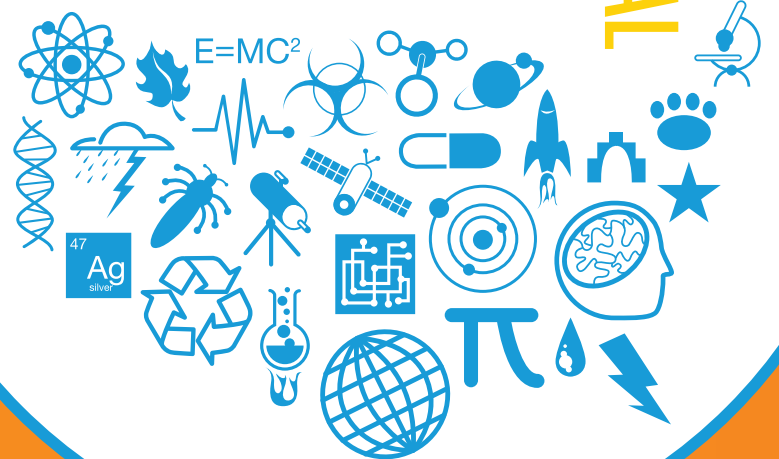


USA SCIENCE & ENGINEERING FESTIVAL



WHERE WILL STEM TAKE YOU?

SEE WHERE STEM CAN TAKE YOU
APRIL 5-8, 2018 | WASHINGTON, DC
AT THE USA SCIENCE & ENGINEERING FESTIVAL

STEM CAN TAKE YOU...



FACTS PROVIDED BY:

INTO THE DEEP BLUE

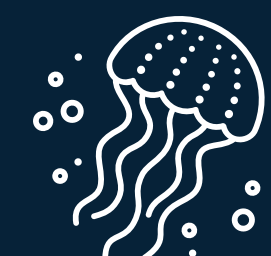
AWESOME JOBS: Oceanographer, Marine Archaeologist, Geophysicist, Digital Nautical Cartographer, Marine Mammologist

COOL STATS:

- 95% of the ocean is unexplored
- 94% of life on Earth is aquatic
- 6.8 miles is the deepest part of the ocean
- Life on Earth began in the ocean 3.5 billion years ago
- The ocean contains 96% of Earth's water

COLOSSAL CREATURES:

- 160 foot long jellies
- 82 foot Fin Whale
- 25 foot Giant Oarfish
- 36 foot Giant Squid
- 6 foot Leatherback Turtle



STEM CAN TAKE YOU...



FACTS PROVIDED BY:

INTO OUTER SPACE

AWESOME JOBS: Astronaut, Spacewalk Trainer, Aerospace Engineer, Rocket Scientist, Robotics Specialist, Flight Controller

COOL STATS:

- Earth's solar system formed about 4.6 billion years ago
- 12.9 billion miles is the farthest any spacecraft has traveled
- The Earth is 93 million miles from the Sun
- 3,564 confirmed planets outside of Earth's solar system
- 8 hours 56 minutes is the longest spacewalk on record

COLOSSAL BODIES:

- 1 billion+ suns could fit inside the red giant star Betelgeuse
- 1.3 million Earths could fit inside the Sun
- NASA's first Space Launch System vehicle weighed 5.75 million lbs fueled



STEM CAN TAKE YOU...



INTO NATURE

AWESOME JOBS: Geothermal Scientist, Conservation Scientist, Structural Geologist, Science Photographer, Epidemiologist

COOL STATS:

- There are 18 volcanoes in the U.S.
- Rain forests make up 6% of the Earth's land surface, but produce 40% of its oxygen
- Bamboo can grow 3 feet in height in 24 hours
- The lowest temperature ever recorded on Earth was -128.6° F in Antarctica

AMAZING CREATURES:

- The black mamba snake slithers up to 7 miles per hour
- Giraffes only need 5 to 30 minutes of sleep every 24 hrs
- An elephant can smell water from 12 miles away & eats up to 300 pounds of food a day
- The heaviest polar bear recorded was 2,210 lbs



STEM CAN TAKE YOU...

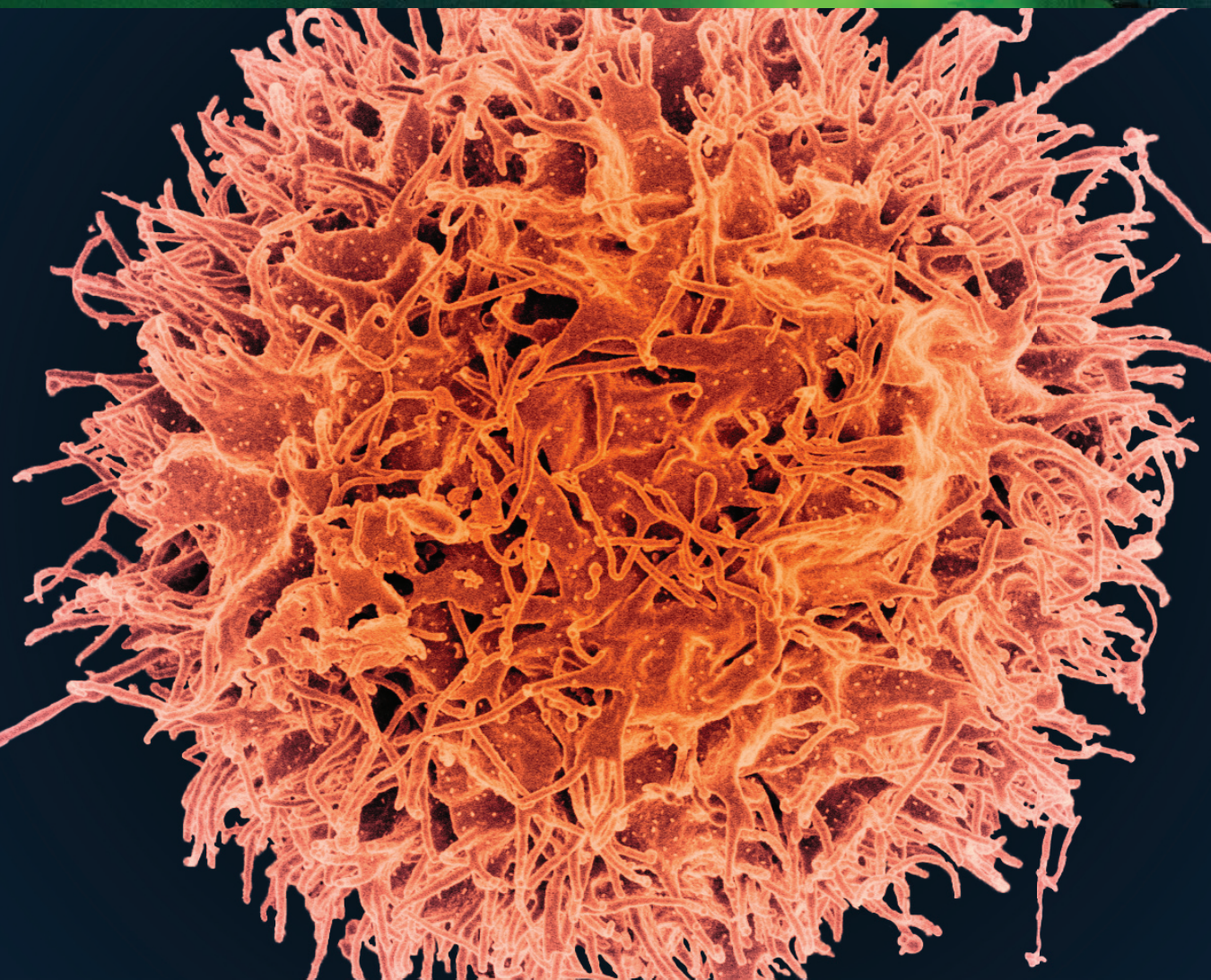


IMAGE & FACTS PROVIDED BY:

INSIDE THE HUMAN BODY

AWESOME JOBS: Medical Illustrator, Prosthetic Designer, Surgeon, Pharmacist, Audiologist, Chemist, Bioengineer

COOL STATS:

- The human brain contains approximately 100 billion neurons
- Microorganisms in the body outnumber human cells by 10 to 1
- There are 3 billion letters, or base pairs, in the human genome
- The adult human skeleton is made up of 206 bones
- The trillions of cells in the body are organized into just 200 major types

POWERFUL PROTEINS:

- Alpha-keratin protein forms your hair/fingernails
- Actin and myosin proteins in muscles help you breathe and blink
- Hemoglobin carries oxygen in your blood
- Enzymes in saliva and the stomach digest food



STEM CAN TAKE YOU...



FACTS PROVIDED BY:

INTO CYBERSPACE

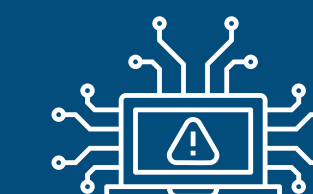
AWESOME JOBS: Cybersecurity Specialist, Ethical Hacker, Data Visualization & Graphic Artist, Threat Hunter, Quantum Information Scientist

COOL STATS:

- Less than 40% of internet traffic is generated by humans
- More than 60% of internet activity is generated by bots & malware!
- 30,000 websites are hacked daily
- Cyber crime damages could cost \$6 trillion a year by 2021
- The Cybersecurity unemployment rate is 0%

CYBERSPACE SURROUNDS US

Cyberspace is not a place – Cyber is all around us. It's as infinite as the ideas in your mind!



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PLATINUM

ACT, American Association of Colleges of Pharmacy, American Farm Bureau Foundation for Agriculture, The American Society of Landscape Architects (ASLA), American Society for Microbiology, Boston Scientific, Carnegie Institution for Science, CASIS, Center for Biotechnology Education at Johns Hopkins University, ePlanetarium, Genentech, George Mason University, Georgetown University, International Brotherhood of Electrical Workers (IBEW), K&NEX, Merck KGaA, NATCA, National Institute of Standards and Technology (NIST), Orbital ATK, Space Camp, SpaceX, SPIE, State Department, Thermo Fisher Scientific

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STEM
APRIL 5, 2018

PRESENTED BY:

SNEAK PEEK FRIDAY
APRIL 6, 2018

PRESENTED BY:

FESTIVAL EXPO
APRIL 7 & 8, 2018

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