ONCOLOGIS ways to treat types of canc canc				sq pa:	Pund		ceuz rezearch	CALIFORNIA CALIFORNIA
ENDUCKINU research disi the endocrini and related c such as diabi sind thyroidis							assist veterinarians with veterinary care. They can work in private animal clinics, animal hospitals, zoos, or research facilities.	Уеtегі па гу Тесhnicians
		•	•		•		are responsible for inspecting farms, meat packing facilities, zoos, and medical research facilities to ensure that all federal laws are strictly upheld.	U.S. Department of Agriculture Inspectors
estizereq bne						•	record and publish the results of research, the protocols for research, and the specifications and procedures for using new medicines and surgical advances.	Technical Writers
							computers to help researchers design experiments and lyze the results.	Statisticians ana
MICROBIOL research the of disease su		•	•	•	•		study medical conditions and conduct experiments in all fields of biomedical research to develop new medical techniques, devices, treatments, and medicines.	Researchers/Scientists
poisoned by I environments and prescript and prescript		•	•	•		•	work with scientists, doctors, and vets in laboratories assisting in experiments, analyzing data, and maintaining equipment.	Research Associates/ Technicians
nsizuuz cixioi effects on or peop gniqləd that zlemine	Sec.						maintain and enforce the laws and rules that govern the use of animism. Animals in all areas of research.	Regulatory Affairs Specialists
LOXICOLOGI							work with scientists testing new drugs and procedures on animals prior to testing on humans.	Pre-Clinical Trials Associates
animals and i vaccines, tre and cures.							ssist researchers in discovering and creating new medicines.	Pharmaceutical as Technicians
RESEARCH VETERINARI Research the and condition with domestid vith domest							r healthier diets for animals and humans and study food- illnesses.	Nutritionists design
							perform laboratory tests in medical and hospital diagnostic laboratories.	stsigolondoaT IsoibaM
HEMATOLOG Pasacen Hasses of th Spleen, and Splands, such anemia, sickl Aman Aman Aman Aman Aman Aman Aman Aman		•			•		provide medical care to humans, work on advances in medical procedures and surgical techniques, and discover new drugs and medical treatments.	Medical Doctors
					•		provide medical care to animals, perform independent research, and serve as consultants and collaborators to research investigators.	Laboratory Veterinarian
							help technicians, veterinarians, and researchers in the laboratory setting.	Laboratory Assistants
PULMONOLO research way diseases of ti and airways s lung cancer, pleurisy, asth disorders (wi affect breath affect breath							d create equipment, facilities, devices, and materials used in a environment.	Engineers design ar
							create and design programs for use in research.	Computer Scientists and Programmers
							organize the testing of new drugs and technical procedures on humans.	Clinical Trials Associate
denetic), gen heredity, gen genetically m organisms ar of such reses							personnel keep research facilities and equipment clean, dependable, and safe.	Cagewashers and Facility Maintenance
							work in the practical application of engineering as it relates to health and medicine.	Biomedical Engineers
							onitor animal health and provide medical care as prescribed by a sterinarian.	m dtleəH leminA v znsizindəT
ISIGILIANES							.Dowoiiot are rounding	2nbervisiors re

www.kids4research.org

Kids-4-Research

gro.26166.www

FOR LABORATORY ANIMAL SCIENCE

American Association

www.ca-biomed.org/csbr RESEARCH BIOMEDICAL SOCIETY FOR

САЦЕОВИІА

gro.noijebnuotselee.www

.slemine ni bn

snemud ni ,re: lle ano bne , Lesearch

> tes, obesity, snoitibno system rders of **STSI201**

> > ,ignut ,ein se y

. sgunb no pue uo toxins, 'suixo plodesuo need eve pue a ,smsins riedt bns zeo Vbuts 2TS

,etnemts, qolava bliw 'sıəd Deleloosse : sessesib SNA

lləc Silida,

pue '(Su netto doi dəəjs 'eu einomuən se yon sgnul si teart ot s **STSI**3

> 'yɔ. seare a bəñibo pue sj pue 's



For additional information, resources, and web links

www.ca-biomed.org/csbr



requested through:

Careers in Biomedical Research is published by the California Society for Biomedical Research (CSBR) and the AALAS Foundation. Additional copies can be



strengthens valid and reliable research results. providing the best care for these animals, which also alternatives are found. Researchers remain devoted to play an important, and irreplaceable, role until effective and organs in a living body; so, animals will continue to complicated interactions occurring among cells, tissues, even the most sophisticated technology cannot mimic the replace animals with other research methods. Currently, valid results, to refine experimental techniques, and to

Siomedical research? What kinds of careers are there in

biomedical research! you like best, there are many career options in Depending on your interests and the field of science

- designing and conducting experiments. Research scientists work in a research laboratory
- statistical analysis of research results. computers creating programs, tallying data, and doing Computer programmers and statisticians work with
- skills to prepare grant applications, Technical writers use their good writing
- Medical doctors work with summarize results. write research plans, and
- care technicians care for • Veterinarians and animal human patients.
- Engineers design and maintain research animals.
- and laboratory facilities. ,gnizuod lamina, inousing, medical devices, research

of disease, medical conditions, and health, and the are a joy for discovery, a need to further our understanding The main characteristics these careers have in common

biomedical research that will suit you perfectly! desire to help both humans and animals. There is a job in

Where would I work?

There are positions in: the world and in a variety of work environments. range of positions and fields, jobs can be found around Just as careers in biomedical research cover a wide

- Research corporations
- Biotech firms
- Colleges/universities
- Hospitals/medical schools Pharmaceutical companies
- Veterinary schools
- Military/government agencies
- Voluntary health organizations Non-profit associations



Careers in **Biomedical Research**

Shore is biomedical research?

siemine ni cure diseases that cause illness and death in people and biomedical researchers look for ways to prevent, treat, and experimentation, laboratory work, analysis, and testing, and participation of many professionals. Through careful research is an evolutionary process that requires the input biological processes and the causes of disease. Biomedical undertaken to gain knowledge and understanding of the Biomedical research is the broad area of science that is

Who conducts biomedical research?

areas of both the life and physical sciences and This broad field of research includes many important

bns tnemtestive treatment and processes of a disease in order to together to study the biological and a variety of scientists working technicians, research technicians, scientists, engineers, animal care doctors, veterinarians, computer Such a team might include medical different backgrounds and specialties. requires a team of people drawn from

search for a permanent cure. They

and even ourselves. families and friends, our pets, wildlife and zoo animals, to cure medical conditions and diseases that affect our to antibiotics, and from asthma to diabetes. They seek conditions from spinal cord injuries to cancer, from viruses their area of expertise, researchers investigate many ways to either treat or cure the disease. Depending on them understand what causes the problems and to identify design and conduct experiments that help

Shortant to biomedical research? ti si ydW ?sonsios lemine yroterodel s<mark>i tedW</mark>

conditions in both humans and in animals, they need to reasons. Before scientists can develop ways to treat health are a critical part of biomedical research for many used in medical research, testing, and teaching. Animals research that specializes in the care and study of animals Laboratory animal science is the area of biomedical

and curing diseases that affect methods for diagnosing, treating, more about these conditions and to discover more effective understand the situation. Researchers use animals to learn



Scientists and medical treatments and procedures. assure the safety of new medical both humans and animals and to

nistdo of bebeen alamina to for ways to reduce the number researchers continue to look



how do I prepare for a career in biomedical research?

research require only a high school diploma, math in high school is important. While some jobs in a strong foundation in the life and physical sciences and Start right now! For any career in biomedical research,

.Rese areas. classes your school offers in you take advantage of all the degree. It is important that beyond the four-year college and still others require education certification, or a college degree, others need specific training,



right out of high school or a Whether you plan on a career

and of receiving scholarships. chances of being accepted into the college of your choice can be expensive; getting good grades will increase your accredited college or university. College is competitive and sure you take all the required classes for entrance into an talk with your high school guidance counselor to make writing and communication skills. If attending college, a strong grounding in the sciences and math, and good an advanced degree, make sure you have good grades, career that requires a college or

about each tield of science can better help you choose the sciences relating to biomedical research. Knowing more graduation requirements, but to also gain exposure to the advisor to plan your course load to not only satisfy all Once you are in college, always work with your academic

Work with your academic advisor to ensure you are exams for graduate, medical, or veterinary school. requirements for specific college courses and entrance professional degree, keep in mind there are individualized want to pursue a career that requires graduate school or a school after college and obtained advanced degrees. If you Many in biomedical research have gone onto graduate specific area for your future career!

or advanced degree. Some careers in research require Not all careers in biomedical research require a college adequately prepared!

IsminA Yasociation for Laboratory Animal addition to, college or graduate school. The American certification or specialized training instead of, or in

site at www.aalas.org. information visit their web research field. For more caring for animals in the those desiring to work certification programs for technician and management Science (AALAA) has both



a better life, hope for a cure. Through their indiv contributions, biomedical researchers have the potential to improve the lives of countless people and animals all over the world. From engineers to scientists, from nutritionists to computer scientists, and from technical writers to laboratory animal technicians, these people have chosen to accept the challenge to care. You can too-by choosing a career in the exciting, demanding, and rewarding field of biomedical research.

hope to millions suffering from medical conditions or diseases-hope for new and better treatments, hope for

Careers in biomedical research provide an opportunity for discovery, and each day professionals in this broad field know they are making a difference in the lives of people and animals. Their work provides



about the interesting career opportunities in biomedical research, visit:

www.aalasfoundation.org

- www.care.aalas.org •
- www.kids4research.org
- www.aalasfoundation.org
- www.ca-biomed.org/csbr

View the "Accept the Challenge to Care: Careers in Laboratory Animal Science" video at www. aalasfoundation.org. This video explores a variety of career choices in laboratory animal science and explains the benefits of biomedical research to people and animals. Visit www.care.aalas.org where you will find a collection of video interviews of laboratory animal science professionals speaking about their day-to-day job responsibilities and offering career advice in the rewarding field of laboratory animal science.



Accept the Challenge to Care