#GLADEOGRAPHIX PRESENTS

## Medical Scientist

Medical scientists conduct research dealing with the understanding of human diseases and the improvement of human health. They engage in clinical investigation, research and development, or other related activities.

### Things to Do During School
- Volunteer at the hospital or research lab
- Oversee large studies or large programs
- Join math/biomedical/science clubs

### Types of Organizations
- Hospitals
- Colleges, universities, and professional schools
- Pharmaceutical and medicine manufacturing
- Research and development in medical device, biotechnology companies

### Job Responsibilities
- **Design and conduct studies** that investigate both human diseases and methods to prevent and treat them
- **Prepare and analyze medical samples and data** to investigate causes and treatment of toxicity, pathogens, or chronic diseases
- **Standardize drug potency, doses, and methods** to allow for the mass manufacturing and distribution of drugs and medicinal compounds
- **Create and test medical devices**
- **Develop programs that improve health outcomes**, in partnership with health departments, industry personnel, and physicians
- **Write research grant proposals and apply for funding** from government agencies and private funding sources
- **Follow procedures to avoid contamination and maintain safety**
- **Many medical scientists form hypotheses and develop experiments, with little supervision**. They often lead teams of technicians and, sometimes, students, who perform support tasks

### Education
- **Bachelors**
  - Biology
  - Chemistry
  - Related fields
- **Ph.D**

*Some also have medical degrees: MD, DO, PharmD, Doctor of Medical Laboratory Sciences, MBBS

To learn more about this career, visit [www.gladeo.org](http://www.gladeo.org)