



# STEM Careers

## Biomathematician

**Job Description:** Use mathematical models to understand various phenomena in the field of biology.

### What does a Biomathematician do?

- Use analysis and simulations of models to obtain information and test biological theories.
- Use models to predict changes in biological phenomena
- Provide consultation to clients or colleagues using your knowledge of biomathematics
- Help determine project plans, objectives, and mathematical aspects for biological research studies
- Write detailed reports on analyses and findings of the research
- Attend meetings or conferences to learn about or present your own developments in pharmacology, life sciences, social sciences, and biomathematics
- Design experiments or surveys to collect data
- Help develop data analysis algorithms

### Your Interests:

- Are you interested in biology?
- Do you like experimenting and trying to find answers to problems?
- Are you good at analyzing data?

### Outlook: **Bright**

Average Salary - \$44.36 hourly, \$92,270 annual

Projected Job Openings – 5,000 over the next 10 years.

### Education/Program of Study:

- Most occupations require at least a master's degree, while some can require a Ph.D.
  - Possible degree paths are Biology, Bioinformatics, Biostatistics or Biomathematics, Applied Mathematics, Computational Mathematics, or other related degree's

Sources:

<https://www.onetonline.org/link/summary/15-2041.01>